



**OID<sup>®</sup>**

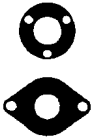
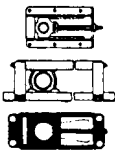
# HOUSING BEARING

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2018

# Dimension Table

| HOUSING<br>▼<br>BEARING       |                                                                                                     |  | Page                                                                     |  | Page               |  | Page           |  | Page                     |  | Page           |  | Page                            |
|-------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------|---------------------------------|
| Set screw type                | <br>UC2<br>F-UC2   | 414<br>430                                                                        | UCP2<br>UCPL2<br>UCPG2<br>F-UCPM2<br>F-UCPR2<br>UCIP2<br>UCIPG2<br>UCPE2 | 58<br>76<br>80<br>84<br>86<br>88<br>94<br>106                                     | UCHP2<br><br>UCUP2 | 96<br><br>100                                                                     |                | UCF2<br><br>UCFG2                                                                  | 116<br><br>134           | UCFC2<br><br>UCFCG2                                                                 | 146<br><br>158 | UCFL2<br>UCFLG2<br>F-UCFM2<br>F-UCFLR2<br>UCFE2                                     | 160<br>174<br>178<br>180<br>194 |
|                               | <br>UC3            | 420                                                                               | UCP3<br>UCPG3<br>UCIP3<br>UCIPG3                                         | 64<br>82<br>90<br>94                                                              |                    |                                                                                   |                | UCF3<br>UCFG3<br>UCFS3<br>UCFSG3                                                   | 122<br>136<br>138<br>144 |                                                                                     |                | UCFL3<br><br>UCFLG3                                                                 | 166<br><br>176                  |
|                               | <br>UCX            | 426                                                                               | UCPX                                                                     | 70                                                                                |                    |                                                                                   |                | UCFX                                                                               | 128                      | UCFCX                                                                               | 152            | UCFLX                                                                               | 172                             |
|                               | <br>AS2            | 432                                                                               | ASPL2<br><br>ASPB2                                                       | 108<br><br>104                                                                    |                    | ASPP2<br><br>ASRPP2                                                               | 112<br><br>114 |                                                                                    |                          |                                                                                     |                | ASFB2<br><br>ASFD2                                                                  | 190<br><br>192                  |
| Eccentric locking collar type | <br>UEL2         | 440                                                                               | UELPL2                                                                   | 246                                                                               | UELHP2<br>UELUP2   | 250<br>252                                                                        |                | UELFU2<br>UELF2                                                                    | 268<br>272               | UELFC2                                                                              | 288            | UELFLU2<br>UELFL2                                                                   | 292<br>296                      |
|                               | <br>UEL3         | 444                                                                               | UELPL3                                                                   | 240                                                                               |                    |                                                                                   |                | UELF3<br>UELFS3                                                                    | 276<br>282               |                                                                                     |                | UELFL3                                                                              | 300                             |
|                               | <br>AEL2<br>JEL2 | 450<br>454                                                                        | AELPL2<br>JELPL2<br>AELPB2                                               | 254<br>258<br>262                                                                 |                    | AELPP2<br>AELRPP2                                                                 | 264<br>266     |                                                                                    |                          |                                                                                     |                | AELFD2<br>AELFB2<br>JELFD2                                                          | 308<br>306<br>309               |
|                               |                                                                                                     |                                                                                   |                                                                          |                                                                                   |                    |                                                                                   |                |                                                                                    |                          |                                                                                     |                |                                                                                     |                                 |
| Adapter type                  | <br>UK2          | 462                                                                               | UKP2                                                                     | 338                                                                               |                    |                                                                                   |                | UKF2                                                                               | 352                      | UKFC2                                                                               | 370            | UKFL2                                                                               | 378                             |
|                               | <br>UK3          | 466                                                                               | UKP3                                                                     | 342                                                                               |                    |                                                                                   |                | UKF3<br>UKFS3                                                                      | 356<br>366               |                                                                                     |                | UKFL3                                                                               | 382                             |
|                               | <br>UKX          | 470                                                                               | UKPX                                                                     | 348                                                                               |                    |                                                                                   |                | UKFX                                                                               | 362                      | UKFCX                                                                               | 374            | UKFLX                                                                               | 388                             |
| Other bearings                |                                                                                                     |                                                                                   | AR2                                                                      | 436                                                                               | REL2               | 458                                                                               | UCS2           | 474                                                                                | UCS3                     | 478                                                                                 | ASS2           | 484                                                                                 |                                 |

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| UCFA2                                                                             | 182 |       |                                                                                   |       |      | UCHB2                                                                             | 202 |      | UCT2                                                                              | 206 |      | UCC2                                                                               | 228 |      | UCT2                                                                                | 408 |      |
| UCFH2                                                                             | 186 |       |                                                                                   |       |      |                                                                                   |     |      | UCTG2                                                                             | 224 |      |                                                                                    |     |      | UCL2                                                                                | 410 |      |
|                                                                                   |     |       |                                                                                   |       |      |                                                                                   |     |      | UCT3                                                                              | 212 |      | UCC3                                                                               | 230 |      | UCM2                                                                                | 411 |      |
|                                                                                   |     |       |                                                                                   |       |      |                                                                                   |     |      | UCTG3                                                                             | 226 |      |                                                                                    |     |      | UCM3                                                                                | 412 |      |
|                                                                                   |     |       |                                                                                   |       |      |                                                                                   |     |      | UCTX                                                                              | 218 |      | UCCX                                                                               | 233 |      |                                                                                     |     |      |
|                                                                                   |     |       | ASPF2                                                                             | 196   |      |                                                                                   |     |      |                                                                                   |     |      |                                                                                    |     |      | ASPT2                                                                               | 235 |      |
|                                                                                   |     |       | ASRPF2                                                                            | 198   |      |                                                                                   |     |      |                                                                                   |     |      |                                                                                    |     |      |                                                                                     |     |      |
|                                                                                   |     |       | ASPFL2                                                                            | 200   |      |                                                                                   |     |      |                                                                                   |     |      |                                                                                    |     |      |                                                                                     |     |      |
|                                                                                   |     |       | ASRPFL2                                                                           |       |      |                                                                                   |     |      |                                                                                   |     |      |                                                                                    |     |      |                                                                                     |     |      |
|                                                                                   |     |       |                                                                                   |       |      |                                                                                   |     |      | UFLT2                                                                             | 320 |      | UELC2                                                                              | 330 |      |                                                                                     |     |      |
|                                                                                   |     |       |                                                                                   |       |      |                                                                                   |     |      | UFLT3                                                                             | 324 |      | UELC3                                                                              | 332 |      |                                                                                     |     |      |
|                                                                                   |     |       | AELPF2                                                                            | 310   |      |                                                                                   |     |      |                                                                                   |     |      |                                                                                    |     |      | AELPT2                                                                              | 336 |      |
|                                                                                   |     |       | AELRPF2                                                                           | 314   |      |                                                                                   |     |      |                                                                                   |     |      |                                                                                    |     |      |                                                                                     |     |      |
|                                                                                   |     |       | AELPFL2                                                                           | 316   |      |                                                                                   |     |      |                                                                                   |     |      |                                                                                    |     |      |                                                                                     |     |      |
|                                                                                   |     |       | AELRPFL2                                                                          | 312   |      |                                                                                   |     |      |                                                                                   |     |      |                                                                                    |     |      |                                                                                     |     |      |
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|                                                                                   |     |       |                                                                                   |       |      |                                                                                   |     |      | UKT2                                                                              | 390 |      | UKC2                                                                               | 404 |      |                                                                                     |     |      |
|                                                                                   |     |       |                                                                                   |       |      |                                                                                   |     |      | UKT3                                                                              | 394 |      | UKC3                                                                               | 405 |      |                                                                                     |     |      |
|                                                                                   |     |       |                                                                                   |       |      |                                                                                   |     |      | UKTX                                                                              | 400 |      | UKCX                                                                               | 407 |      |                                                                                     |     |      |
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Technical  
Data

Set screw type

Eccentric locking  
collar type

Adapter type

Ball bearings

## Warranty

OID warrants, to the original purchaser only, that the delivered product which is the subject of this sale (a) will conform to drawings and specifications mutually established in writing as applicable to the contract, and (b) be free from defects in material or fabrication. The duration of this warranty is one year from date of delivery. If the buyer discovers within this period a failure of the product to conform to drawings or specifications, or a defect in material or fabrication, it must promptly notify OID in writing. In no event shall such notification be received by OID later than 13 months from the date of delivery. Within a reasonable time after such notification, OID will, at its option, (a) correct any failure of the product to conform to drawings, specifications or any defect in material or workmanship, with either replacement or repair of the product, or (b) refund, in part or in whole, the purchase price. Such replacement and repair, excluding charges for labor, is at OID's expense. All warranty service will be performed at service centers designated by OID. These remedies are the purchaser's exclusive remedies for breach of warranty.

OID does not warrant (a) any product, components or parts not manufactured by OID, (b) defects caused by failure to provide a suitable installation environment for the product, (c) damage caused by use of the product for purposes other than those for which it was designed, (d) damage caused by disasters such as fire, flood, wind, and lightning, (e) damage caused by unauthorized attachments or modification, (f) damage during shipment, or (g) any other abuse or misuse by the purchaser.

**THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

In no case shall OID be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict tort, or any other legal theory, and in no case shall total liability of OID exceed the purchase price of the part upon which such liability is based. Such damages include, but are not limited to, loss of profits, loss of savings or revenue, loss of use of the product or any associated equipment, cost of capital, cost of any substitute equipment, facilities or services, downtime, the claims of third parties including customers, and injury to property. Some states do not allow limits on warranties, or on remedies for breach in certain transactions. In such states, the limits in this paragraph and in paragraph (2) shall apply to the extent allowable under case law and statutes in such states.

Any action for breach of warranty or any other legal theory must be commenced within 15 months following delivery of the goods.

Unless modified in a writing signed by both parties, this agreement is understood to be the complete and exclusive agreement between the parties, superseding all prior agreements, oral or written, and all other communications between the parties relating to the subject matter of this agreement. No employee of OID or any other party is authorized to make any warranty in addition to those made in this agreement.

This agreement allocates the risks of product failure between OID and the purchaser. This allocation is recognized by both parties and is reflected in the price of the goods. The purchaser acknowledges that it has read this agreement, understands it, and is bound by its terms.







**Bearing Units**



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## 1. Construction

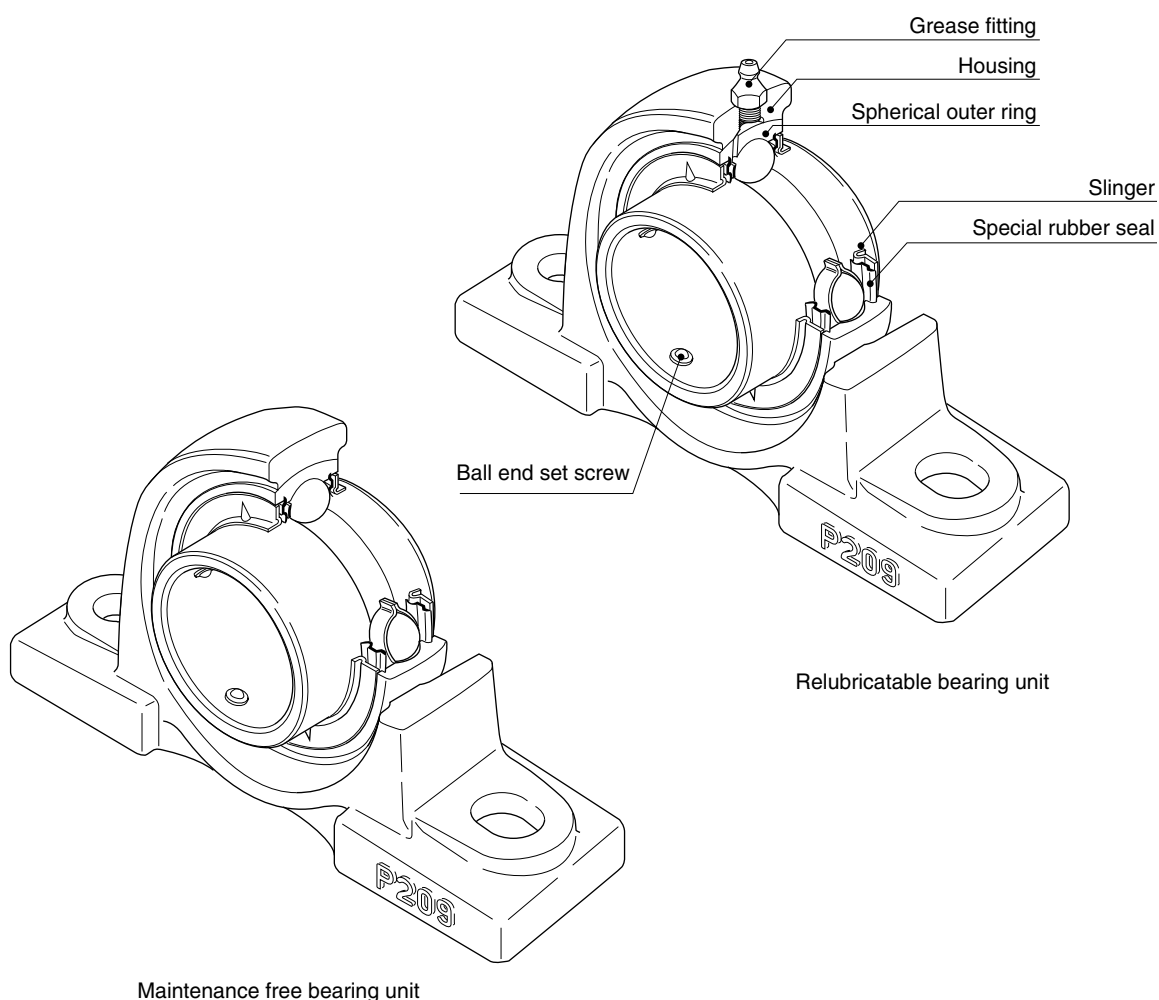
The OID bearing unit is a combination of a radial ball bearing, seal, and a housing of high-grade cast iron or pressed steel, which comes in various shapes.

The outer surface of the bearing and the internal surface of the housing are spherical, so that the unit is self-aligning.

The inside construction of the ball bearing for the unit is such that steel balls and retainers of the same type as in series 62 and 63 of the OID deep groove ball bearing are used. A duplex seal consisting of a combination of an oil-proof synthetic rubber seal and a slinger, unique to OID, is provided on both sides.

Depending on the type, the following methods of fitting to the shaft are employed:

- (1) The inner ring is fastened onto the shaft in two places by set screws.
- (2) The inner ring has a tapered bore and is fitted to the shaft by means of an adapter.
- (3) In the eccentric locking collar system the inner ring is fastened to the shaft by means of eccentric grooves provided at the side of the inner ring and on the collar.



## 2. Design Features and Advantages

### 2.1 Maintenance free type

The OID Maintenance free bearing unit contains a high-grade lithium-based grease, good for use over a long period, which is ideally suited to sealed-type bearings. Also provided is an excellent sealing device, unique to OID, which prevents any leakage of grease or penetration of dust and water from outside.

It is designed so that the rotation of the shaft causes the sealed-in grease to circulate through the inside space, effectively providing maximum lubrication. The lubrication effect is maintained over a long period with no need for replenishment of grease.

To summarize the advantages of the OID maintenance free bearing unit:

- (1) As an adequate amount of good quality grease is sealed in at the time of manufacture, there is no need for replenishment. This means savings in terms of time and maintenance costs.
- (2) Since there is no need for any regreasing facilities, such as piping, a more compact design is possible.
- (3) The sealed-in design eliminates the possibility of grease leakage, which could lead to stained products.

### 2.2 Relubricatable type

The OID relubricatable type bearing unit has an advantage over other similar units being so designed as to permit regreasing even in the case of misalignment of 2° to the right or left. The hole through which the grease fitting is mounted usually causes structural weakening of the housing.

However, as a result of extensive testing, in the OID bearing unit the hole is positioned so as to minimize this adverse effect. In addition, the regreasing groove has been designed to minimize weakening of the housing.

While the OID maintenance free type bearing unit is satisfactory for use under normal operating conditions indoors, in the following circumstances it is necessary to use the relubricatable type bearing unit:

- (1) Cases where the temperature of the bearing rises above 100°C, 212°F:  
\*- Normal temperature of up to 200°C, 392°F heatresistant bearing units.
- (2) Cases where there is excessive dust, but space does not permit using a bearing unit with a cover.
- (3) Cases where the bearing unit is constantly exposed to splashes of water or any other liquid, but space does not permit using a bearing unit with a cover.
- (4) Cases in which the humidity is very high, and the machine in which the bearing unit is used is run only intermittently.
- (5) Cases involving a heavy load of which the  $C_T/P_T$  value is about 10 or below, and the speed is 10 rpm or below, or the movement is oscillatory.

- (6) Cases where the number of revolutions is relatively high and the noise problem has to be considered; for example, when the bearing is used with the fan of an air conditioner.

### 2.3 Special sealing feature

#### 2.3.1 Standard bearing units

The sealing device of the ball bearing for the OID bearing unit is a combination of a heat-resistant and oil-proof synthetic rubber seal and a slinger of an exclusive OID design.

The seal, which is fixed in the outer ring, is steelreinforced, and its lip, in contact with the inner ring, is designed to minimize frictional torque.

The slinger is fixed to the inner ring of the bearing with which it rotates. There is a small clearance between its periphery and the outer ring.

These two types of seals on both sides of the bearing prevent grease leakage, and foreign matter is prevented from entering the bearing from outside.

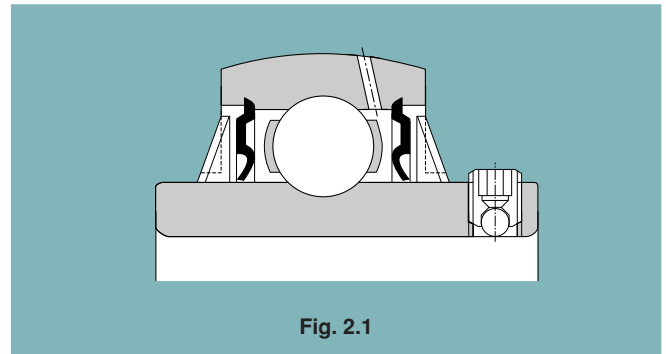


Fig. 2.1

#### 2.3.2 Bearing units with covers

The OID bearing unit with a cover consists of a standard bearing unit and an outside covering for extra protection against dust. Special consideration has been given to its design with respect to dust-proofing.

Sealing devices are provided in both the bearing and the housing, so that units of this type operate satisfactorily even in such adverse environments as flour mills, steel mills, foundries, galvanizing plants and chemical plants, where excessive dust is produced and/or liquids are used. They are also eminently suitable for outdoor environments where dust and rain are inevitable, and in heavy industrial machinery such as construction and transportation equipment.

The rubber seal of the cover contacts with the shaft by its two lips, as shown in Fig. 2.2 and 2.3. By filling the groove between the two lips with grease, an excellent sealing effect is obtained and, at the same time, the contacting portions of the lips are lubricated. Furthermore, the groove is so



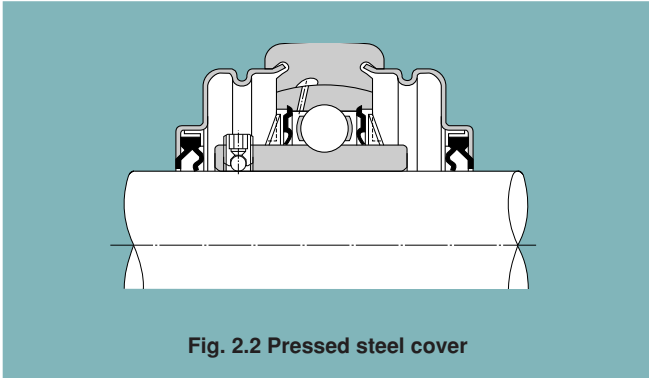


Fig. 2.2 Pressed steel cover

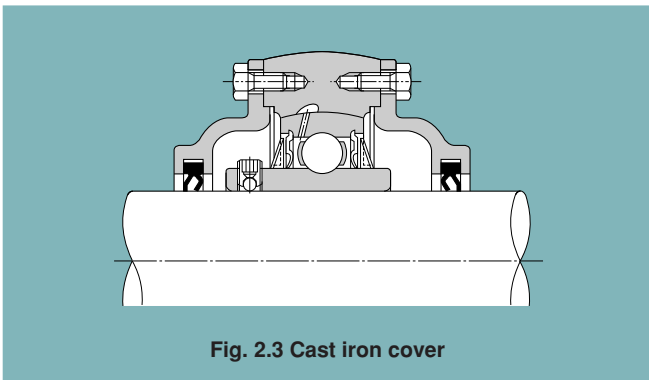


Fig. 2.3 Cast iron cover

designed that when the shaft is inclined the rubber seal can move in the radial direction.

When bearing units are exposed to splashes of water rather than to dust, a drain hole (5 to 8 mm, 0.2 to 0.3 inches in diameter) is provided at the bottom of the cover, and grease should be applied to the side of the bearing itself instead of into the cover.

## 2.4 Secure fitting

Fastening the bearing to the shaft is effected by tightening the ball-end set screw, situated on the inner ring. This is a unique OID feature which prevents loosening, even if the bearing is subjected to intense vibrations and shocks.

## 2.5 Self-aligning

With the OID bearing unit, the outer surface of the ball bearing and the inner surface of the housing are spherical, thus this bearing unit has self-aligning characteristic. Any misalignment of axis that may arise from poor workmanship on the shaft or errors in fitting will be properly adjusted.

## 2.6 Higher rated load capacity

The bearing used in the unit is of the same internal construction as those in OID bearing series 62 and 63, and is capable of accommodating axial load as well as radial load, or composite load. The rated load capacity of this bearing is considerably higher than that of the corresponding self-aligning ball bearings used for standard plummer blocks.

## 2.7 Light weight yet strong housing

Housings for OID bearing units come in various shapes. They consist of either high-grade cast iron, one-piece casting, or of precision finished pressed steel, the latter being lighter in weight. In either case, they are practically designed to combine lightness with maximum strength.

## 2.8 Easy mounting

The OID bearing unit is an integrated unit consisting of a bearing and a housing.

As the bearing is prelubricated at manufacture with the correct amount of high-grade lithium base, it can be mounted on the shaft just as it is. It is sufficient to carry out a short test run after mounting.

## 2.9 Accurate fitting of the housing

In order to simplify the fitting of the pillow block and flange type bearing units, the housings are provided with a seat for a dowel pin, which may be utilized as needed.

## 2.10 Bearing replaceability

The bearing used in the OID bearing unit is replaceable. In the event of bearing failure, a new bearing can be fitted to the existing housing.

### 3. Material

#### 3.1 Raceway and rolling element materials

Materials with high hardness and appropriate toughness are used for the inner rings, outer rings and balls of the insert bearings since large compression forces and repetitive stresses are applied to a small contact. In general Cold-rolled steel is used for the cages. For special applications, stainless steel is also available for use in the insert bearings.

#### 3.2 Housing materials

The most common materials used in OID bearing unit housings are cast iron or steel plate, with cast iron being the standard.

For special applications, materials such as spheroidal graphite iron, structural steel, stainless steel cast iron or plastic resin are also available for use in the housings. The chemical

resistance properties of glass-fiber reinforced resin are shown in Table 3.5.

##### 3.2.1 Cast iron housing

OID uses gray cast iron as the standard material for cast iron housings.

Among metallic materials cast iron has a high damping capacity, which is an ideal characteristic for mechanical components. This means cast iron, exhibits superior performance when absorbing vibration, compared with other materials. Additionally cast iron is suitable for high temperatures of up to 300C°.

##### 3.2.2 Steel plate housing

Cold-rolled steel sheet or hot-rolled mild steel sheet is used for steel plate housings.

Table 3.1 JIS G 5501 Mechanical properties of gray iron product

| Code of material | Mechanical properties of separately casted test piece material |                        |
|------------------|----------------------------------------------------------------|------------------------|
|                  | Tensile strength<br>N/mm <sup>2</sup>                          | Brinell hardness<br>HB |
| FC200            | Min. 200                                                       | Max. 232               |

Table 3.2 JIS G 5502 Mechanical properties of nodular graphite cast iron

| Code of material | Mechanical properties of separately casted test piece material |                                        |                 |                            |
|------------------|----------------------------------------------------------------|----------------------------------------|-----------------|----------------------------|
|                  | Tensile strength<br>N/mm <sup>2</sup>                          | 0.2% Proof stress<br>N/mm <sup>2</sup> | Elongation<br>% | (Reference) Hardness<br>HB |
| FCD450-10        | Min. 450                                                       | Min. 280                               | Min. 10         | 140 - 210                  |

Table 3.3 JIS G 3101 Mechanical properties of general structural rolled steel

| Code of material | Mechanical properties |                                                  |                                       |                                   |
|------------------|-----------------------|--------------------------------------------------|---------------------------------------|-----------------------------------|
|                  | Steel thickness<br>mm | Yield point or Proof stress<br>N/mm <sup>2</sup> | Tensile strength<br>N/mm <sup>2</sup> | Elongation %<br>Test piece in ( ) |
| SS400            | Over 16 Incl. 40      | Min. 235                                         | 400 - 510                             | 21 (No. 1A)                       |
|                  | Over 40 Incl. 100     | Min. 215                                         |                                       | 23 (No. 4)                        |
|                  | Over 100              | Min. 205                                         |                                       |                                   |

Table 3.4 JIS G 5152 Mechanical properties of stainless cast steel product

| Code of material | Mechanical properties of separately casted test piece material |                                        |                 |                |
|------------------|----------------------------------------------------------------|----------------------------------------|-----------------|----------------|
|                  | Tensile strength<br>N/mm <sup>2</sup>                          | 0.2% Proof stress<br>N/mm <sup>2</sup> | Elongation<br>% | Hardness<br>HB |
| SCS13            | Min. 440                                                       | Min. 185                               | Min. 30         | Max. 183       |

Table 3.5 Water and chemical resistance of glass fiber reinforcing resin housing (PBT)

|          | Chemicals               | Temperature<br>℃ | Deterioration ratio <sup>1)</sup> % |         |                   | Chemicals            | Temperature<br>℃ | Deterioration ratio <sup>1)</sup> % |         |
|----------|-------------------------|------------------|-------------------------------------|---------|-------------------|----------------------|------------------|-------------------------------------|---------|
|          |                         |                  | Number of days soaked               |         |                   |                      |                  | Number of days soaked               |         |
|          |                         |                  | 30 days                             | 90 days |                   |                      |                  | 30 days                             | 90 days |
| Acid     | Hydrochloric acid, 10%  | 23               | 89                                  | 85      | Organic<br>solven | Ethyl alcohol        | 23               | 99                                  | 96      |
|          | Sulfuric acid, 36%      | 23               | 97                                  | 97      |                   | Methyl alcohol       | 23               | 91                                  | 82      |
|          |                         | 60               | 84                                  | 60      |                   | Isopropyl alcohol    | 23               | 100                                 | 100     |
|          | Acetic acid 10%         | 23               | 88                                  | 88      |                   | Acetone              | 23               | 86                                  | 74      |
| Alkaline | Potassium hydroacid, 5% | 23               | 88                                  | 10      |                   | Methyl Ethyl Keton   | 23               | 90                                  | 80      |
|          | Sodium hydroacid, 10%   | 23               | ※                                   | ※       |                   | Ethyl acetate        | 23               | 96                                  | 86      |
|          | Ammonia hydroacid, 10%  | 23               | 96                                  | 87      |                   | Methylene chloride   | 23               | 54                                  | 54      |
| Oil      | Motor oil               | 23               | 100                                 | 100     |                   | ethylene grycole     | 23               | 100                                 | 100     |
|          | Brake oil               | 23               | 100                                 | 100     | Sodium            | Zinc chrolide 10%    | 23               | 97                                  | 94      |
|          | Gasoline (Regular)      | 23               | 100                                 | 100     |                   | Calcium chrolide 10% | 23               | 98                                  | 98      |
|          |                         | 60               | 93                                  | 90      |                   | Sodium chrolide 5%   | 23               | 97                                  | 97      |

**Remarks 1)** Deterioration (%) is the strength after test divided by the strength before test.

The ※ symbol indicates that results could not be measured as the test piece dissolved.

**Remarks 2)** The values listed in the table are not guaranteed as they are the result of soaking without operating stresses on the sample. Because this strength data is general, it does not apply under all operating conditions. Actual housing strength will vary depending on the type and concentration of liquid, temperature, load, etc.

Table 3.6 Anti-Corrosion capability

OID recommends ratings of ◎ to ○ for optimum corrosion resistance.

◎ ○ △ ▲ ×  
excellent ← → poor

| Materials                   |                 | Condition | Atmosphere |     | Water         |              | Acid        |               |                   |
|-----------------------------|-----------------|-----------|------------|-----|---------------|--------------|-------------|---------------|-------------------|
|                             |                 |           | Dry        | Wet | Natural water | Sodium water | Nitric acid | Sulfuric acid | Hydrochloric acid |
| Martensite stainless steel  | SUS440C, SUS410 |           | ○          | △   | △             | ▲            | ▲           | ×             | ×                 |
| Austenite stainless steel   | SUS304, SCS13   |           | ◎          | ◎   | ◎             | ○            | ◎           | ○             | △                 |
| Polyester plastics          |                 |           | ◎          | ◎   | ◎             | ◎            | ▲           | ○             | ○                 |
| Polypropylene, polyethylene |                 |           | ◎          | ◎   | ◎             | ◎            | ○           | ○             | ○                 |
| High carbon steel           | SUJ2            |           | △          | ▲   | ▲             | ×            | ×           | ×             | ×                 |
| Carbon steel, Cast iron     |                 |           | ▲          | ×   | ×             | ×            | ×           | ×             | ×                 |

**Remarks:** This data is obtained by observation of the surface conditions of materials.

Note that these anti-corrosion capabilities are altered by anti-corrosion surface treatment.

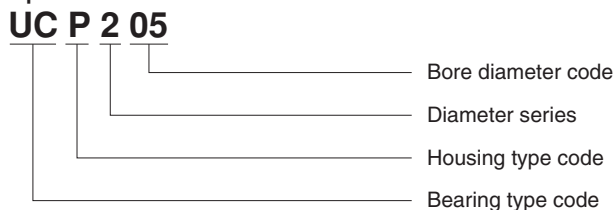
Not recommended for use in liquid.

## 4. Bearing unit part numbering

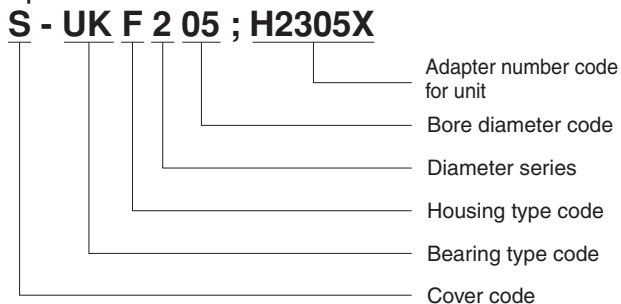
### 4.1 Bearing unit part numbering

OID Bearing unit part numbers are in accordance with the Japanese Industrial Standard JIS. The code for the bearing type, housing type, diameter series and bore diameter are expressed from left to right within the part number.

#### Example 1



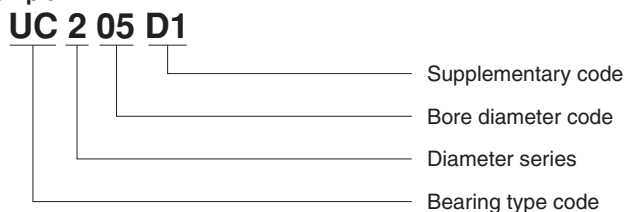
#### Example 2



### 4.2 Insert bearing part numbering

The part number for the insert bearing matches the part number for the bearing unit.

#### Example



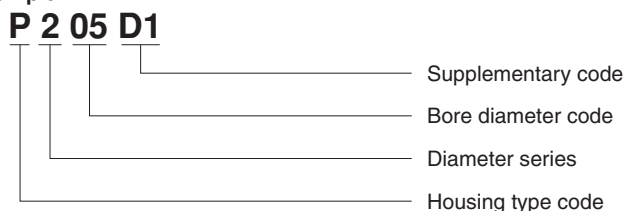
Each bearing unit can take any number of different ball bearing inserts. The available insert types are shown in Fig. 4.3(1)-4.3(9).

### 4.3 Housing part numbering

Housing part numbers are expressed by the housing type code, the bearing outer diameter series code and the bore diameter codes of the insert bearing that would be used for the unit.

The available housings are shown in Table 4.3(1)-4.3(9).

#### Example



### 4.4 Supplemental codes

Typical supplementary codes added after the Bearing unit part number are shown below.

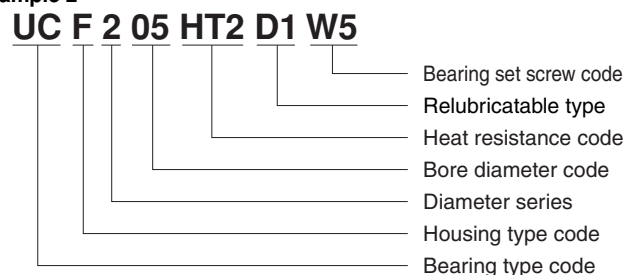
Table 4.1 Examples of supplementary codes

| Item                                    | Supplementary code | Content                                            |
|-----------------------------------------|--------------------|----------------------------------------------------|
| For heat resistance and cold resistance | HT2                | Heat resistance                                    |
|                                         | CT1                | Cold resistance                                    |
| Housing material                        | N1                 | Spheroidal graphite cast iron (FCD450)             |
| Lubrication method                      | No code            | Maintenance free type                              |
|                                         | D1                 | Relubricatable type                                |
| Bearing seal                            | No code            | Standard nitrile rubber seal                       |
|                                         | U                  | Non-contact shield plate                           |
|                                         | LLJ                | Triple lip seal                                    |
| Set screw                               | No code            | Set screw with ball (Except for stainless bearing) |
|                                         | W3                 | Cup point                                          |
|                                         | W4                 | Double point                                       |
|                                         | W5                 | Round head dog point set screw (With one piece)    |
|                                         | W6                 | Round head key bolt (With one piece)               |

#### Example 1



#### Example 2

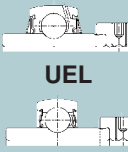
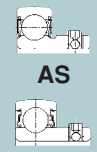
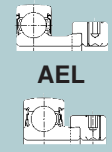


Bearing specifications for heat resistance and cold resistance are shown in Table 4.2.

Table 4.2 Bearing specifications for heat resistance and cold resistance

| Item            | Code | Operating range (°C) | Grease               | Bearing seal             | Bearing clearance |
|-----------------|------|----------------------|----------------------|--------------------------|-------------------|
| Heat resistance | HT2  | Room temp. ~180°C    | Li soap+ Silicon oil | Non-contact shield plate | C4                |
| Cold resistance | CT1  | -50°C ~Room temp.    | Li soap+ Silicon oil | Non-contact shield plate | CN                |

Table 4.3 (1) Cast iron pillow block type units

| Housing Type<br>Material : Cast Iron |                                                                                     | Cover     | Bearing Type                                                                            |                                                                                                 |                                                                                         |                                                                                                 |                                                                                                   |                                                                                           |
|--------------------------------------|-------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|                                      |                                                                                     |           | <br>UC | <br>UEL<br>REL | <br>UK | <br>AS<br>AR | <br>AEL<br>JEL | <br>CS |
| Pillow Block                         |    | —         | UCP                                                                                     | UEL<br>REL                                                                                      | UKP                                                                                     | ASP<br>ARP                                                                                      | AELP<br>JELP                                                                                      | —                                                                                         |
|                                      |                                                                                     | Steel     | S(M)-UCP                                                                                | —                                                                                               | S(M)-UKP                                                                                | S(M)-ASP<br>S(M)-ARP                                                                            | —                                                                                                 | —                                                                                         |
|                                      |                                                                                     | Cast Iron | C(M)-UCP                                                                                | —                                                                                               | C(M)-UKP                                                                                | C(M)-ASP<br>C(M)-ARP                                                                            | —                                                                                                 | —                                                                                         |
| Thick Pillow Block                   |    | —         | UCIP                                                                                    | UELIP<br>RELIP                                                                                  | UKIP                                                                                    | —                                                                                               | —                                                                                                 | —                                                                                         |
|                                      |                                                                                     | Steel     | S(M)-UCIP                                                                               | —                                                                                               | S(M)-UKIP                                                                               | —                                                                                               | —                                                                                                 | —                                                                                         |
|                                      |                                                                                     | Cast Iron | C(M)-UCIP                                                                               | —                                                                                               | C(M)-UKIP                                                                               | —                                                                                               | —                                                                                                 | —                                                                                         |
| High-Center Pillow Block             |   | —         | UCHP                                                                                    | UELHP<br>RELHP                                                                                  | UKHP                                                                                    | ASHP<br>ARHP                                                                                    | AELHP<br>JELHP                                                                                    | —                                                                                         |
|                                      |                                                                                     | Steel     | S(M)-UCHP                                                                               | —                                                                                               | S(M)-UKHP                                                                               | S(M)-ASHP<br>S(M)-ARHP                                                                          | —                                                                                                 | —                                                                                         |
| Narrow Pillow Block                  |  | —         | UCUP                                                                                    | UELUP<br>RELUP                                                                                  | UKUP                                                                                    | ASUP<br>ARUP                                                                                    | AELUP<br>JELUP                                                                                    | —                                                                                         |
|                                      |                                                                                     | Steel     | S(M)-UCUP                                                                               | —                                                                                               | S(M)-UKUP                                                                               | S(M)-ASUP<br>S(M)-ARUP                                                                          | —                                                                                                 | —                                                                                         |
| Light Pillow Block                   |  | —         | —                                                                                       | —                                                                                               | —                                                                                       | ASPB<br>ARPB                                                                                    | AELPB<br>JELPB                                                                                    | CSPB                                                                                      |
| Pillow Block Low-Center              |  | —         | UCPL                                                                                    | UELPL<br>RELPL                                                                                  | UKPL                                                                                    | ASPL<br>ARPL                                                                                    | AELPL<br>JELPL                                                                                    | —                                                                                         |

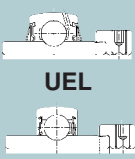
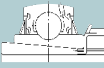
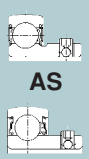
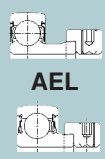
Remarks 1. The codes "S-" and "C-" at the head of the type codes indicate steel plate covered bearing units and cast iron covered bearing units, respectively.

2. Single-sided closed covered bearing units made of steel and cast iron are also available.

These bearing units are identified with the codes "SM-"(steel plate) and "CM-"(cast iron) at the head of the type codes, respectively.

3. "UC" type stainless steel bearings are also available. For further details, consult **OID** (Stainless Series Bearing unit)

Table 4.3 (2) Cast iron flange type units

| Housing Type<br>Material : Cast Iron |                                                                                     | Cover     | Bearing Type                                                                            |                                                                                                 |                                                                                          |                                                                                                 |                                                                                                   |                                                                                           |
|--------------------------------------|-------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|                                      |                                                                                     |           | <br>UC | <br>UEL<br>REL | <br>UK | <br>AS<br>AR | <br>AEL<br>JEL | <br>CS |
| Square Flange                        |    | —         | UCF                                                                                     | UELF<br>RELF                                                                                    | UKF                                                                                      | ASF<br>ARF                                                                                      | AELF<br>JELF                                                                                      | —                                                                                         |
|                                      |                                                                                     | Steel     | S(M)-UCF                                                                                | —                                                                                               | S(M)-UKF                                                                                 | S(M)-ASF<br>S(M)-ARF                                                                            | —                                                                                                 | —                                                                                         |
|                                      |                                                                                     | Cast Iron | C(M)-UCF                                                                                | —                                                                                               | C(M)-UKF                                                                                 | C(M)-ASF<br>C(M)-ARF                                                                            | —                                                                                                 | —                                                                                         |
| Square Flange<br>W/Spigot Joint      |    | —         | UCFS                                                                                    | UELFS                                                                                           | UKFS                                                                                     | —                                                                                               | —                                                                                                 | —                                                                                         |
|                                      |                                                                                     | Cast Iron | C(M)-UCFS                                                                               | —                                                                                               | C(M)-UKFS                                                                                | —                                                                                               | —                                                                                                 | —                                                                                         |
| Round Flange<br>W/Spigot Joint       |    | —         | UCFC                                                                                    | UELFC<br>RELFC                                                                                  | UKFC                                                                                     | ASFC<br>ARFC                                                                                    | AELFC<br>JELFC                                                                                    | —                                                                                         |
|                                      |                                                                                     | Steel     | S(M)-UCFC                                                                               | —                                                                                               | S(M)-UKFC                                                                                | S(M)-ASFC<br>S(M)-ARFC                                                                          | —                                                                                                 | —                                                                                         |
|                                      |                                                                                     | Cast Iron | C(M)-UCFC                                                                               | —                                                                                               | C(M)-UKFC                                                                                | C(M)-ASFC<br>C(M)-ARFC                                                                          | —                                                                                                 | —                                                                                         |
| Rhombus Flange                       |  | —         | UCFL                                                                                    | UEFL<br>RELFL                                                                                   | UKFL                                                                                     | ASFL<br>ARFL                                                                                    | AELFL<br>JELFL                                                                                    | —                                                                                         |
|                                      |                                                                                     | Steel     | S(M)-UCFL                                                                               | —                                                                                               | S(M)-UKFL                                                                                | S(M)-ASFL<br>S(M)-ARFL                                                                          | —                                                                                                 | —                                                                                         |
|                                      |                                                                                     | Cast Iron | C(M)-UCFL                                                                               | —                                                                                               | C(M)-UKFL                                                                                | C(M)-ASFL<br>C(M)-ARFL                                                                          | —                                                                                                 | —                                                                                         |
| Square Flange                        |  | —         | UCFU                                                                                    | UELFU<br>RELFU                                                                                  | UKFU                                                                                     | ASFU<br>ARFU                                                                                    | AELFU<br>JELFU                                                                                    | —                                                                                         |
| Rhombus Flange                       |  | —         | UCFLU                                                                                   | UEFLU<br>RELFLU                                                                                 | UKFLU                                                                                    | ASFLU<br>ARFLU                                                                                  | AELFLU<br>JELFLU                                                                                  | —                                                                                         |
| Modified Rhombus<br>Flange           |  | —         | UCFA                                                                                    | UELFA<br>RELFA                                                                                  | UKFA                                                                                     | ASFA<br>ARFA                                                                                    | AELFA<br>JELFA                                                                                    | —                                                                                         |
|                                      |                                                                                     | Steel     | S(M)-UCFA                                                                               | —                                                                                               | S(M)-UKFA                                                                                | S(M)-ASFA<br>S(M)-ARFA                                                                          | —                                                                                                 | —                                                                                         |
| Light Rhombus<br>Flange              |  | —         | —                                                                                       | —                                                                                               | —                                                                                        | ASFB<br>ARFB                                                                                    | AELFB<br>JELFB                                                                                    | CSFB                                                                                      |
| Light Rhombus<br>Flange              |  | —         | —                                                                                       | —                                                                                               | —                                                                                        | ASFD<br>ARFD                                                                                    | AELFD<br>JELFD                                                                                    | —                                                                                         |
| Modified Flange                      |  | —         | UCFH                                                                                    | UELFH<br>RELFH                                                                                  | UKFH                                                                                     | ASFH<br>ARFH                                                                                    | AELFH<br>JELFH                                                                                    | —                                                                                         |

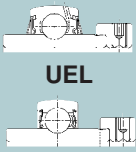
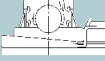
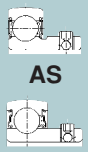
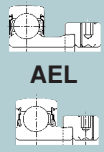
Remarks 1. The codes "S-" and "C-" at the head of the type codes indicate steel plate covered bearing units and cast iron covered bearing units, respectively.

2. Single-sided closed covered bearing units made of steel and cast iron are also available.

These bearing units are identified with the codes "SM-"(steel plate) and "CM-"(cast iron) at the head of the type codes, respectively.

3. "UC" type stainless steel bearings are also available. For further details, consult **OID** (Stainless Series Bearing unit)

Table 4.3 (3) Other cast iron units

| Housing Type<br>Material : Cast Iron |                                                                                   | Cover     | Bearing Type                                                                            |                                                                                                 |                                                                                         |                                                                                                 |                                                                                                   |                                                                                           |
|--------------------------------------|-----------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|                                      |                                                                                   |           | <br>UC | <br>UEL<br>REL | <br>UK | <br>AS<br>AR | <br>AEL<br>JEL | <br>CS |
| Take-up                              |  | —         | UCT                                                                                     | UFLT<br>RELT                                                                                    | UKT                                                                                     | AST<br>ART                                                                                      | AFLT<br>JELT                                                                                      | —                                                                                         |
|                                      |                                                                                   | Steel     | S(M)-UCT                                                                                | —                                                                                               | S(M)-UKT                                                                                | S(M)-AST<br>S(M)-ART                                                                            | —                                                                                                 | —                                                                                         |
|                                      |                                                                                   | Cast Iron | C(M)-UCT                                                                                | —                                                                                               | C(M)-UKT                                                                                | C(M)-AST<br>C(M)-ART                                                                            | —                                                                                                 | —                                                                                         |
| Cartridge                            |  | —         | UCC                                                                                     | UEL<br>RELC                                                                                     | UKC                                                                                     | ASC<br>ARC                                                                                      | AEL<br>JELC                                                                                       | —                                                                                         |
| Hanger                               |  | —         | UCHB                                                                                    | UELH<br>RELH                                                                                    | UKHB                                                                                    | ASHB<br>ARHB                                                                                    | AELH<br>JELH                                                                                      | —                                                                                         |

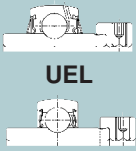
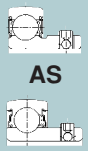
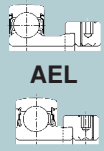
Remarks 1. The codes "S-" and "C-" at the head of the type codes indicate steel plate covered bearing units and cast iron covered bearing units, respectively.

2. Single-sided closed covered bearing units made of steel and cast iron are also available.

These bearing units are identified with the codes "SM-"(steel plate) and "CM-"(cast iron) at the head of the type codes, respectively.

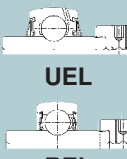
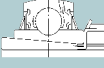
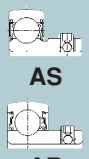
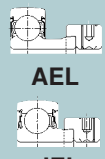
3. "UC" type stainless steel bearings are also available. For further details, consult **OID** (Stainless Series Bearing unit)

Table 4.3 (4) Bearing units with ductile cast iron housing (Ductile series)

| Housing Type<br>Material :<br>Spheroidal Graphite Cast Iron |                                                                                     | Cover | Bearing Type                                                                              |                                                                                                   |                                                                                           |                                                                                                   |                                                                                                     |                                                                                             |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
|                                                             |                                                                                     |       | <br>UC | <br>UEL<br>REL | <br>UK | <br>AS<br>AR | <br>AEL<br>JEL | <br>CS |
| Pillow Block                                                |  | —     | UCPE                                                                                      | UELPE<br>RELPE                                                                                    | UKPE                                                                                      | ASPE<br>ARPE                                                                                      | AELPE<br>JELPE                                                                                      | —                                                                                           |
| Rhombus Flange                                              |  | —     | UCFE                                                                                      | UELFE<br>RELFE                                                                                    | UKFE                                                                                      | ASFE<br>ARFE                                                                                      | AELFE<br>JELFE                                                                                      | —                                                                                           |

Remarks 1. "UC" type stainless steel bearings are also available. For further details, consult **OID** (Stainless Series Bearing unit).

Table 4.3 (5) Bearing units steel series

| Housing Type<br>Material :<br>General Structural Rolled Steel |                                                                                     | Cover     | Bearing Type                                                                            |                                                                                                 |                                                                                          |                                                                                                 |                                                                                                   |                                                                                           |
|---------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|                                                               |                                                                                     |           | <br>UC | <br>UEL<br>REL | <br>UK | <br>AS<br>AR | <br>AEL<br>JEL | <br>CS |
| Pillow Block                                                  |    | —         | UCPG                                                                                    | UELPG<br>RELPG                                                                                  | UKPG                                                                                     | ASPG<br>ARPG                                                                                    | AELPG<br>JELPG                                                                                    | —                                                                                         |
|                                                               |                                                                                     | Steel     | S(M)-UCPG                                                                               | —                                                                                               | S(M)-UKPG                                                                                | S(M)-ASPG<br>S(M)-ARPG                                                                          | —                                                                                                 | —                                                                                         |
|                                                               |                                                                                     | Cast Iron | C(M)-UCPG                                                                               | —                                                                                               | C(M)-UKPG                                                                                | C(M)-ASPG<br>C(M)-ARPG                                                                          | —                                                                                                 | —                                                                                         |
| Thick Pillow Block                                            |    | —         | UCIPG                                                                                   | UELIPG<br>RELIPG                                                                                | UKIPG                                                                                    | —                                                                                               | —                                                                                                 | —                                                                                         |
|                                                               |                                                                                     | Steel     | S(M)-UCIPG                                                                              | —                                                                                               | S(M)-UKIPG                                                                               | —                                                                                               | —                                                                                                 | —                                                                                         |
|                                                               |                                                                                     | Cast Iron | C(M)-UCIPG                                                                              | —                                                                                               | C(M)-UKIPG                                                                               | —                                                                                               | —                                                                                                 | —                                                                                         |
| Square Flange                                                 |   | —         | UCFG                                                                                    | UELFG<br>RELFG                                                                                  | UKFG                                                                                     | ASFG<br>ARFG                                                                                    | AELFG<br>JELFG                                                                                    | —                                                                                         |
|                                                               |                                                                                     | Steel     | S(M)-UCFG                                                                               | —                                                                                               | S(M)-UKFG                                                                                | S(M)-ASFG<br>S(M)-ARFG                                                                          | —                                                                                                 | —                                                                                         |
|                                                               |                                                                                     | Cast Iron | C(M)-UCFG                                                                               | —                                                                                               | C(M)-UKFG                                                                                | C(M)-ASFG<br>C(M)-ARFG                                                                          | —                                                                                                 | —                                                                                         |
| Square Flange<br>W/Spigot Joint                               |  | —         | UCFSG                                                                                   | UELFSG                                                                                          | UKFSG                                                                                    | —                                                                                               | —                                                                                                 | —                                                                                         |
|                                                               |                                                                                     | Cast Iron | C(M)-UCFSG                                                                              | —                                                                                               | C(M)-UKFSG                                                                               | —                                                                                               | —                                                                                                 | —                                                                                         |
| Round Flange<br>W/Spigot Joint                                |  | —         | UCFCG                                                                                   | UELFSG<br>RELFCG                                                                                | UKFCG                                                                                    | ASFCG<br>ARFCG                                                                                  | AELFCG<br>JELFCG                                                                                  | —                                                                                         |
|                                                               |                                                                                     | Steel     | S(M)-UCFCG                                                                              | —                                                                                               | S(M)-UKFCG                                                                               | S(M)-ASFCG<br>S(M)-ARFCG                                                                        | —                                                                                                 | —                                                                                         |
|                                                               |                                                                                     | Cast Iron | C(M)-UCFCG                                                                              | —                                                                                               | C(M)-UKFCG                                                                               | C(M)-ASFCG<br>C(M)-ARFCG                                                                        | —                                                                                                 | —                                                                                         |
| Rhombus Flange                                                |  | —         | UCFLG                                                                                   | UELFLG<br>RELFLG                                                                                | UKFLG                                                                                    | ASFLG<br>ARFLG                                                                                  | AELFLG<br>JELFLG                                                                                  | —                                                                                         |
|                                                               |                                                                                     | Steel     | S(M)-UCFLG                                                                              | —                                                                                               | S(M)-UKFLG                                                                               | S(M)-ASFLG<br>S(M)-ARFLG                                                                        | —                                                                                                 | —                                                                                         |
|                                                               |                                                                                     | Cast Iron | C(M)-UCFLG                                                                              | —                                                                                               | C(M)-UKFLG                                                                               | C(M)-ASFLG<br>C(M)-ARFLG                                                                        | —                                                                                                 | —                                                                                         |
| Take-up                                                       |  | —         | UCTG                                                                                    | UELFG<br>RELFG                                                                                  | UKTG                                                                                     | ASTG<br>ARTG                                                                                    | AELTG<br>JELTG                                                                                    | —                                                                                         |
|                                                               |                                                                                     | Steel     | S(M)-UCTG                                                                               | —                                                                                               | S(M)-UKTG                                                                                | S(M)-ASTG<br>S(M)-ARTG                                                                          | —                                                                                                 | —                                                                                         |
|                                                               |                                                                                     | Cast Iron | C(M)-UCTG                                                                               | —                                                                                               | C(M)-UKTG                                                                                | C(M)-ASTG<br>C(M)-ARTG                                                                          | —                                                                                                 | —                                                                                         |

Remarks 1. The codes "S-" and "C-" at the head of the type codes indicate steel plate covered bearing units and cast iron covered bearing units, respectively.  
2. Single-sided closed covered bearing units made of steel and cast iron are also available.  
3. "UC" type stainless steel bearings are also available. For further details, consult **OID** (Stainless Series Bearing unit)



Table 4.3 (6) Bearing units stainless series

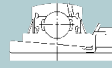
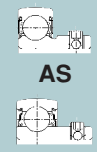
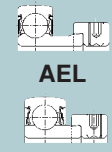
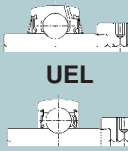
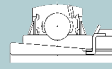
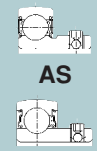
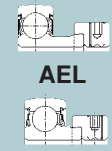
| Housing Type<br>Material : Stainless Steel |                                                                                   | Cover           | Bearing Type                                                                            |                                                                                                                                                                                      |                                                                                         |                                                                                                                                                                                        |                                                                                                                                                                                          |                                                                                           |
|--------------------------------------------|-----------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|                                            |                                                                                   |                 | <br>UC | <br>UEL<br><br>REL | <br>UK | <br>AS<br><br>AR | <br>AEL<br><br>JEL | <br>CS |
| Pillow Block                               |  | Stainless steel | F-UCPM<br>F-FS(M)-UCPM                                                                  | —                                                                                                                                                                                    | —                                                                                       | —                                                                                                                                                                                      | —                                                                                                                                                                                        | —                                                                                         |
| Rhombus Flange                             |  | Stainless steel | F-UCFM<br>F-FS(M)-UCFM                                                                  | —                                                                                                                                                                                    | —                                                                                       | —                                                                                                                                                                                      | —                                                                                                                                                                                        | —                                                                                         |

Table 4.3 (7) Bearing units plastic housing series

| Housing Type<br>Material :<br>Glass Fiber Reinforcing Resin |                                                                                     | Cover | Bearing Type                                                                            |                                                                                                                                                                                       |                                                                                         |                                                                                                                                                                                         |                                                                                                                                                                                           |                                                                                           |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|                                                             |                                                                                     |       | <br>UC | <br>UEL<br><br>REL | <br>UK | <br>AS<br><br>AR | <br>AEL<br><br>JEL | <br>CS |
| Pillow Block                                                |  | —     | F-UCPR                                                                                  | —                                                                                                                                                                                     | —                                                                                       | —                                                                                                                                                                                       | —                                                                                                                                                                                         | —                                                                                         |
|                                                             |                                                                                     | Resin | F-RM-UCPR                                                                               | —                                                                                                                                                                                     | —                                                                                       | —                                                                                                                                                                                       | —                                                                                                                                                                                         | —                                                                                         |
| Rhombus Flange                                              |  | —     | F-UCFLR                                                                                 | —                                                                                                                                                                                     | —                                                                                       | —                                                                                                                                                                                       | —                                                                                                                                                                                         | —                                                                                         |
|                                                             |                                                                                     | Resin | F-RM-UCFLR                                                                              | —                                                                                                                                                                                     | —                                                                                       | —                                                                                                                                                                                       | —                                                                                                                                                                                         | —                                                                                         |

Remarks 1.The code "RM-" at the head of the type codes indicates single-side closed resin covered unit.

Table 4.3 (8) Steel plate units

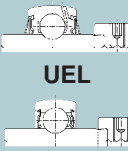
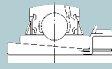
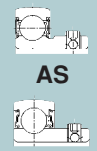
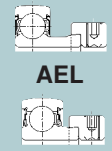
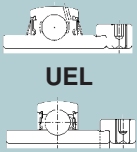
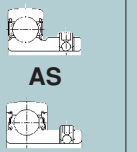
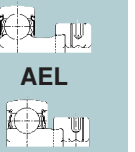
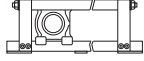
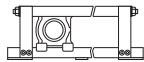
| Housing Type<br>Material : Steel Plate |                                                                                     | Cover | Bearing Type                                                                              |                                                                                                                                                                                          |                                                                                           |                                                                                                                                                                                            |                                                                                                                                                                                              |                                                                                             |
|----------------------------------------|-------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
|                                        |                                                                                     |       | <br>UC | <br>UEL<br><br>REL | <br>UK | <br>AS<br><br>AR | <br>AEL<br><br>JEL | <br>CS |
| Pillow Block                           |  | —     | —                                                                                         | —                                                                                                                                                                                        | —                                                                                         | ASPP                                                                                                                                                                                       | AELPP                                                                                                                                                                                        | CSPP                                                                                        |
| Pillow Block<br>W/Rubber Ring          |  | —     | —                                                                                         | —                                                                                                                                                                                        | —                                                                                         | ASRPP                                                                                                                                                                                      | AELRPP                                                                                                                                                                                       | CSRPP                                                                                       |
| Round Flange                           |  | —     | —                                                                                         | —                                                                                                                                                                                        | —                                                                                         | ASPF                                                                                                                                                                                       | AELPF                                                                                                                                                                                        | CSPF                                                                                        |
| Round Flange<br>W/Rubber Ring          |  | —     | —                                                                                         | —                                                                                                                                                                                        | —                                                                                         | ASRPF                                                                                                                                                                                      | AELRPF                                                                                                                                                                                       | CSRPF                                                                                       |
| Rhombus Flange                         |  | —     | —                                                                                         | —                                                                                                                                                                                        | —                                                                                         | ASPFL                                                                                                                                                                                      | AELPFL                                                                                                                                                                                       | CSPFL                                                                                       |
| Rhombus Flange<br>W/Rubber Ring        |  | —     | —                                                                                         | —                                                                                                                                                                                        | —                                                                                         | ASRPFL                                                                                                                                                                                     | AELRPFL                                                                                                                                                                                      | CSRPF                                                                                       |

Table 4.3 (9) Stretcher units

|                                |                                                                                     | Cover     | Bearing Type                                                                                   |                                                                                                               |                                                                                                  |                                                                                                               |                                                                                                                 |
|--------------------------------|-------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
|                                |                                                                                     |           | <br><b>UC</b> | <br><b>UEL</b><br><b>REL</b> | <br><b>UK</b> | <br><b>AS</b><br><b>AR</b> | <br><b>AEL</b><br><b>JEL</b> |
| Mini Type                      |    | —         | —                                                                                              | —                                                                                                             | —                                                                                                | ASPT                                                                                                          | AELPT                                                                                                           |
| Angle Steel Frame Type         |    | —         | UCT-00                                                                                         | UULT-00<br>RELT-00                                                                                            | UKT-00                                                                                           | AST-00<br>ART-00                                                                                              | AELT-00<br>JELT-00                                                                                              |
|                                |                                                                                     | Steel     | S(M)-UCT-00                                                                                    | —                                                                                                             | S(M)-UKT-00                                                                                      | S(M)-AST-00<br>S(M)-ART-00                                                                                    | —                                                                                                               |
|                                |                                                                                     | Cast Iron | C(M)-UCT-00                                                                                    | —                                                                                                             | C(M)-UKT-00                                                                                      | C(M)-AST-00<br>C(M)-ART-00                                                                                    | —                                                                                                               |
| Light Channel Steel Frame Type |    | —         | UCL-00                                                                                         | UULL-00<br>RELL-00                                                                                            | UKL-00                                                                                           | ASL-00<br>ARL-00                                                                                              | AELL-00<br>JELL-00                                                                                              |
|                                |                                                                                     | Steel     | S(M)-UCL-00                                                                                    | —                                                                                                             | S(M)-UKL-00                                                                                      | S(M)-ASL-00<br>S(M)-ARL-00                                                                                    | —                                                                                                               |
|                                |                                                                                     | Cast Iron | C(M)-UCL-00                                                                                    | —                                                                                                             | C(M)-UKL-00                                                                                      | C(M)-ASL-00<br>C(M)-ARL-00                                                                                    | —                                                                                                               |
| Channel Steel Frame Type       |  | —         | UCM-00                                                                                         | UELML-00<br>RELM-00                                                                                           | UKM-00                                                                                           | ASM-00<br>ARM-00                                                                                              | AELM-00<br>JELM-00                                                                                              |
|                                |                                                                                     | Steel     | S(M)-UCM-00                                                                                    | —                                                                                                             | S(M)-UKM-00                                                                                      | S(M)-ASM-00<br>S(M)-ARM-00                                                                                    | —                                                                                                               |
|                                |                                                                                     | Cast Iron | C(M)-UCM-00                                                                                    | —                                                                                                             | C(M)-UKM-00                                                                                      | C(M)-ASM-00<br>C(M)-ARM-00                                                                                    | —                                                                                                               |

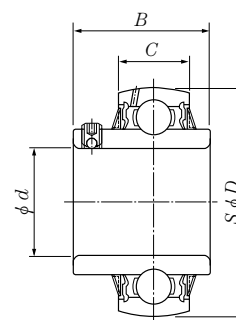
- Remarks 1. The codes "S-" and "C-" at the head of the type codes indicate steel plate covered bearing units and cast iron covered bearing units, respectively.
2. Single-sided closed covered bearing units made of steel and cast iron are also available.  
These bearing units are identified with the codes "SM-"(steel plate) and "CM-"(cast iron) at the head of the type codes, respectively.
3. "UC" type stainless steel bearings are also available. For further details, consult **OID** (Stainless Series Bearing unit)

## 5. Tolerance

The tolerances of the **OID** bearing units are in accordance with the following JIS specifications :

### 5.1 Tolerances of ball bearings for the unit

The tolerances of ball bearings used in the unit are shown in the following tables, 5.1 to 5.4.



Set screw type

Table 5.1 (1) Cylindrical bore (UC, UCS, AS, ASS, UEL, UELS, AEL, AELS)

Unit:  $\mu\text{m}/0.0001\text{ inch}$

| Nominal bore diameter<br><i>d</i> |        |        |        | Cylindrical bore                     |        |                                     |       |                                                   | Radial<br>runout<br><i>K<sub>ia</sub></i><br>(reference) |          |
|-----------------------------------|--------|--------|--------|--------------------------------------|--------|-------------------------------------|-------|---------------------------------------------------|----------------------------------------------------------|----------|
|                                   |        |        |        | Bore diameter                        |        |                                     | Width |                                                   |                                                          |          |
| over                              |        | incl.  |        | <i>Δ<sub>dmp</sub></i><br>Deviations |        | <i>V<sub>dρ</sub></i><br>Variations |       | <i>ΔBs</i> , <i>ΔCs</i><br>Deviations (reference) |                                                          |          |
| mm                                | inch   | mm     | inch   | high                                 | low    | max.                                |       | high                                              |                                                          | low      |
| 10                                | 0.3937 | 18     | 0.7087 | +15<br>+ 6                           | 0<br>0 | 10<br>4                             |       | 0<br>0                                            | −120<br>− 47                                             | 15<br>6  |
| 18                                | 0.7087 | 31.750 | 1.2500 | +18<br>+ 7                           | 0<br>0 | 12<br>5                             |       | 0<br>0                                            | −120<br>− 47                                             | 18<br>7  |
| 31.750                            | 1.2500 | 50.800 | 2.0000 | +21<br>+ 8                           | 0<br>0 | 14<br>6                             |       | 0<br>0                                            | −120<br>− 47                                             | 20<br>8  |
| 50.800                            | 2.0000 | 80     | 3.1496 | +24<br>+ 9                           | 0<br>0 | 16<br>6                             |       | 0<br>0                                            | −150<br>− 59                                             | 25<br>10 |
| 80                                | 3.1496 | 120    | 4.7244 | +28<br>+11                           | 0<br>0 | 19<br>7                             |       | 0<br>0                                            | −200<br>− 79                                             | 30<br>12 |
| 120                               | 4.7244 | 180    | 7.0866 | +33<br>+13                           | 0<br>0 | 22<br>9                             |       | 0<br>0                                            | −250<br>− 98                                             | 35<br>14 |

Note: Symbols

$\Delta d_{mp}$ : Mean bore diameter deviation  $V_{dp}$ : Bore diameter variation

$\Delta B_s$ : Inner ring width deviation

$\Delta C_s$ : Outer ring width deviation

Table 5.1 (2) Cylindrical bore (AR, ARS, JEL, JELS, REL, RELS)

Unit:  $\mu\text{m}/0.0001\text{ inch}$

| Nominal bore diameter<br><i>d</i> |        |        |        | Cylindrical bore             |        |                                             |                                                      |              | Radial<br>runout<br><i>K</i> <sub>ia</sub><br>(reference)<br><br>(max) |
|-----------------------------------|--------|--------|--------|------------------------------|--------|---------------------------------------------|------------------------------------------------------|--------------|------------------------------------------------------------------------|
|                                   |        |        |        | Bore diameter                |        |                                             | Width                                                |              |                                                                        |
| over                              |        | incl.  |        | $\Delta_{dmp}$<br>Deviations |        | <i>V</i> <sub>d<i>p</i></sub><br>Variations | $\Delta_{Bs}, \Delta_{Cs}$<br>Deviations (reference) |              |                                                                        |
| mm                                | inch   | mm     | inch   | high                         | low    | max.                                        | high                                                 | low          |                                                                        |
| 10                                | 0.3937 | 18     | 0.7087 | +13<br>+ 5                   | 0<br>0 | 6<br>2                                      | 0<br>0                                               | −120<br>− 47 | 15<br>6                                                                |
| 18                                | 0.7087 | 31.750 | 1.2500 | +13<br>+ 5                   | 0<br>0 | 6<br>2                                      | 0<br>0                                               | −120<br>− 47 | 18<br>7                                                                |
| 31.750                            | 1.2500 | 50.800 | 2.0000 | +13<br>+ 5                   | 0<br>0 | 6<br>2                                      | 0<br>0                                               | −120<br>− 47 | 20<br>8                                                                |
| 50.800                            | 2.0000 | 80     | 3.1496 | +15<br>+ 6                   | 0<br>0 | 8<br>3                                      | 0<br>0                                               | −150<br>− 59 | 25<br>10                                                               |

Table 5.1 (3) Cylindrical bore (CS)

Unit:  $\mu\text{m}/0.0001\text{ inch}$

| Nominal bore diameter<br><i>d</i> |        |       |        | Cylindrical bore             |             |                                             |                                                    |               | Radial<br>runout<br><i>K</i> <sub>Ia</sub><br><br>(reference) |
|-----------------------------------|--------|-------|--------|------------------------------|-------------|---------------------------------------------|----------------------------------------------------|---------------|---------------------------------------------------------------|
|                                   |        |       |        | Bore diameter                |             |                                             | Width                                              |               |                                                               |
| over                              |        | incl. |        | $\Delta_{dmp}$<br>Deviations |             | <i>V</i> <sub><i>d</i>p</sub><br>Variations | $\Delta B_s, \Delta C_s$<br>Deviations (reference) |               |                                                               |
| mm                                | inch   | mm    | inch   | high                         | low         | max.                                        | high                                               | low           | max.                                                          |
| 10                                | 0.3937 | 18    | 0.7087 | 0<br>0                       | − 8<br>− 3  | 10<br>4                                     | 0<br>0                                             | − 120<br>− 47 | 15<br>6                                                       |
| 18                                | 0.7087 | 31.75 | 1.2500 | 0<br>0                       | − 10<br>− 4 | 12<br>5                                     | 0<br>0                                             | − 120<br>− 47 | 18<br>7                                                       |
| 31.75                             | 1.2500 | 50.8  | 2.0000 | 0<br>0                       | − 12<br>− 5 | 14<br>6                                     | 0<br>0                                             | − 120<br>− 47 | 20<br>8                                                       |
| 50.8                              | 2.0000 | 80    | 3.1496 | 0<br>0                       | − 15<br>− 6 | 16<br>6                                     | 0<br>0                                             | − 150<br>− 59 | 25<br>10                                                      |

Table 5.2 Tapered bore (UK, UKS)

Unit:  $\mu\text{m}/0.0001\text{ inch}$

| Nominal bore diameter<br>$d$ |        |       |        | $\Delta_{dmp}$<br>Deviations |        | $\Delta d_{1mp} - \Delta d_{mp}$ |        | $V_{dp}^{1)}$ |
|------------------------------|--------|-------|--------|------------------------------|--------|----------------------------------|--------|---------------|
| over                         |        | incl. |        | high                         | low    | high                             | low    | max.          |
| mm                           | inch   | mm    | inch   | high                         | low    | high                             | low    | max.          |
| 18                           | 0.7087 | 30    | 1.1811 | +33<br>+13                   | 0<br>0 | +21<br>+ 8                       | 0<br>0 | 13<br>5       |
| 30                           | 1.1811 | 50    | 1.9685 | +39<br>+15                   | 0<br>0 | +25<br>+10                       | 0<br>0 | 16<br>6       |
| 50                           | 1.9685 | 80    | 3.1496 | +46<br>+18                   | 0<br>0 | +30<br>+12                       | 0<br>0 | 19<br>7       |
| 80                           | 3.1496 | 120   | 4.7244 | +54<br>+21                   | 0<br>0 | +35<br>+14                       | 0<br>0 | 22<br>9       |
| 120                          | 4.7244 | 180   | 7.0866 | +63<br>+25                   | 0<br>0 | +40<br>+16                       | 0<br>0 | 40<br>16      |

1) Applies to all radial flat planes of inner ring tapered bore.

Note: 1. To be applied for tapered bore of 1/12.

2. Symbols of quantity or values

$d_1$ : Basic diameter at the theoretical large end of the tapered bore

$$d_1 = d + \frac{1}{12}B$$

$\Delta_{dmp}$ : Dimensional difference of the average bore diameter within the flat surface at the theoretical small-end of the tapered bore

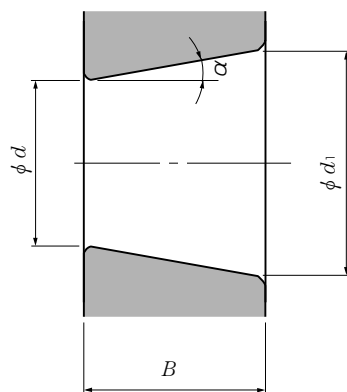
$\Delta d_{1mp}$ : Dimensional difference of the average bore diameter within the flat surface at the theoretical large-end of the tapered bore

$V_{dp}$ : Unevenness of the bore diameter with the flat surface

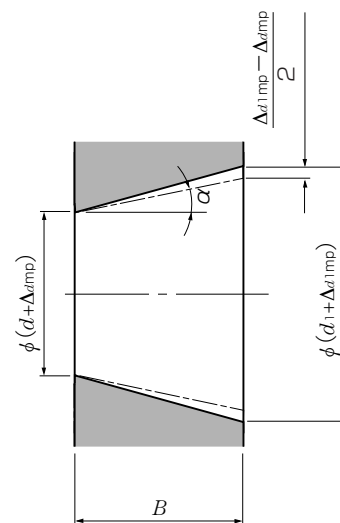
$B$ : Nominal width of inner ring

$\alpha$ : Half of the tapered bore's nominal taper angle

$$\begin{aligned}\alpha &= 2^\circ 23' 9.4'' \\ &= 2.38594^\circ \\ &= 0.041643\text{rad}\end{aligned}$$



Theoretical tapered bore



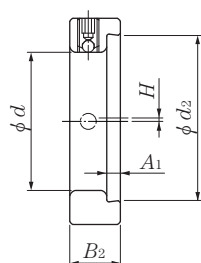
Tapered bore having dimensional difference of the average bore diameter within the flat surface

Table 5.3 Outer ring

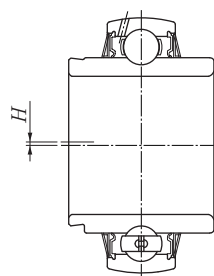
Unit:  $\mu\text{m}/0.0001\text{ inch}$

| Nominal outside diameter<br>$D$ |        |       |         | Mean outside<br>diameter<br>deviation<br>$\Delta D_m$ |            | Radial<br>runout<br>$K_{ea}$<br>(reference) |
|---------------------------------|--------|-------|---------|-------------------------------------------------------|------------|---------------------------------------------|
| over                            |        | incl. |         |                                                       |            |                                             |
| mm                              | inch   | mm    | inch    | high                                                  | low        | max.                                        |
| 18                              | 0.7087 | 30    | 1.1811  | 0<br>0                                                | -9<br>-4   | 15<br>6                                     |
| 30                              | 1.1811 | 50    | 1.9685  | 0<br>0                                                | -11<br>-4  | 20<br>8                                     |
| 50                              | 1.9685 | 80    | 3.1496  | 0<br>0                                                | -13<br>-5  | 25<br>10                                    |
| 80                              | 3.1496 | 120   | 4.7244  | 0<br>0                                                | -15<br>-6  | 35<br>14                                    |
| 120                             | 4.7244 | 150   | 5.9055  | 0<br>0                                                | -18<br>-7  | 40<br>16                                    |
| 150                             | 5.9055 | 180   | 7.0866  | 0<br>0                                                | -25<br>-10 | 45<br>18                                    |
| 180                             | 7.0866 | 250   | 9.8425  | 0<br>0                                                | -30<br>-12 | 50<br>20                                    |
| 250                             | 9.8425 | 315   | 12.4016 | 0<br>0                                                | -35<br>-14 | 60<br>24                                    |

Note: 1) The low deviation of outside diameter  $D_m$  does not apply within the distance of 1/4 the width of the outer ring from the side.



Eccentric locking collar



Eccentric locking collar type

Table 5.4 Eccentric locking collar

Unit: mm/inch

| Nominal bore diameter<br>$d$ |        |        |        | Bore diameter<br>deviation<br>$\Delta d_s$ |                  | Small bore diameter<br>of eccentric surface<br>deviation<br>$\Delta d_{2s}$ |        | Eccentricity<br>deviation<br>$\Delta H_s$ |                | Collar width<br>deviation<br>$\Delta B_{2s}$ |                  | Collar eccentric<br>surface width<br>deviation<br>$\Delta A_{1s}$ |                  |
|------------------------------|--------|--------|--------|--------------------------------------------|------------------|-----------------------------------------------------------------------------|--------|-------------------------------------------|----------------|----------------------------------------------|------------------|-------------------------------------------------------------------|------------------|
| over                         |        | incl.  |        |                                            |                  |                                                                             |        |                                           |                |                                              |                  |                                                                   |                  |
| mm                           | inch   | mm     | inch   | high                                       | low              | high                                                                        | low    | high                                      | low            | high                                         | low              | high                                                              | low              |
| 10                           | 0.3937 | 36.512 | 1.4375 | +0.250<br>+0.010                           | +0.025<br>+0.001 | +0.3<br>+0.012                                                              | 0<br>0 | +0.1<br>+0.004                            | -0.1<br>-0.004 | +0.270<br>+0.011                             | -0.270<br>-0.011 | 0<br>0                                                            | -0.180<br>-0.007 |
| 36.512                       | 1.4375 | 55.562 | 2.1875 | +0.300<br>+0.012                           | +0.025<br>+0.001 | +0.4<br>+0.016                                                              | 0<br>0 | +0.1<br>+0.004                            | -0.1<br>-0.004 | +0.330<br>+0.013                             | -0.330<br>-0.013 | 0<br>0                                                            | -0.180<br>-0.007 |
| 55.562                       | 2.1875 | 61.912 | 2.4375 | +0.300<br>+0.012                           | +0.025<br>+0.001 | +0.4<br>+0.016                                                              | 0<br>0 | +0.1<br>+0.004                            | -0.1<br>-0.004 | +0.330<br>+0.013                             | -0.330<br>-0.013 | 0<br>0                                                            | -0.220<br>-0.009 |

## 5.2 Tolerances of housings

Table 5.5 Spherical bore diameter of housings

Unit:  $\mu\text{m}/0.0001\text{ inch}$

| Nominal spherical bore diameter<br>$D_a$ |        |       |         | $D_a$ Deviations $\Delta D_{am}$ |        |                    |            |                    |            |
|------------------------------------------|--------|-------|---------|----------------------------------|--------|--------------------|------------|--------------------|------------|
| over                                     |        | incl. |         | Tolerance class H7               |        | Tolerance class J7 |            | Tolerance class K7 |            |
| mm                                       | inch   | mm    | inch    | high                             | low    | high               | low        | high               | low        |
| 30                                       | 1.1811 | 50    | 1.9685  | +25<br>+10                       | 0<br>0 | +14<br>+ 6         | -11<br>- 4 | + 7<br>+ 3         | -18<br>- 7 |
| 50                                       | 1.9685 | 80    | 3.1496  | +30<br>+12                       | 0<br>0 | +18<br>+ 7         | -12<br>- 5 | + 9<br>+ 4         | -21<br>- 8 |
| 80                                       | 3.1496 | 120   | 4.7244  | +35<br>+14                       | 0<br>0 | +22<br>+ 9         | -13<br>- 5 | —                  | —          |
| 120                                      | 4.7244 | 180   | 7.0866  | +40<br>+16                       | 0<br>0 | +26<br>+10         | -14<br>- 6 | —                  | —          |
| 180                                      | 7.0866 | 250   | 9.8425  | +46<br>+18                       | 0<br>0 | +30<br>+12         | -16<br>- 6 | —                  | —          |
| 250                                      | 9.8425 | 315   | 12.4016 | +52<br>+20                       | 0<br>0 | +36<br>+14         | -16<br>- 6 | —                  | —          |

Note: 1) Symbols  $\Delta D_{am}$ : Mean spherical bore diameter deviation

2) Dimensional tolerances for spherical bore diameter of housing are classified as H7 for clearance fit, and J7 for intermediate fit.

3) The housing bore diameter for a spherical OD bearing insert would use the following fit;

Housing bore diameter  $\leq 52\text{mm}$  : K7 fit

52mm < Housing bore diameter  $\leq 180\text{mm}$  : J7 fit

Housing bore diameter > 180mm : H7 fit

Table 5.6 (1) Pillow block housings

Unit: mm/inch

| Housing numbers                            |                  |     | $H$ Deviations<br>$\Delta H_s$ |
|--------------------------------------------|------------------|-----|--------------------------------|
| P, IP, HP, UP<br>PB, PM, PL<br>PE, PG, IPG | P, IP<br>PG, IPG | P   |                                |
| 201                                        | —                | —   | $\pm 0.15$<br>$\pm 0.006$      |
| 203                                        | —                | —   |                                |
| 204                                        | —                | —   |                                |
| 205                                        | 305              | X05 |                                |
| 206                                        | 306              | X06 |                                |
| 207                                        | 307              | X07 |                                |
| 208                                        | 308              | X08 |                                |
| 209                                        | 309              | X09 |                                |
| 210                                        | 310              | X10 |                                |
| 211                                        | 311              | X11 | $\pm 0.2$<br>$\pm 0.008$       |
| 212                                        | 312              | X12 |                                |
| 213                                        | 313              | X13 |                                |
| 214                                        | 314              | X14 |                                |
| 215                                        | 315              | X15 |                                |
| 216                                        | 316              | X16 |                                |
| 217                                        | 317              | X17 |                                |
| 218                                        | 318              | X18 |                                |
| —                                          | 319              | —   | $\pm 0.3$<br>$\pm 0.012$       |
| —                                          | 320              | X20 |                                |
| —                                          | 321              | —   |                                |
| —                                          | 322              | —   |                                |
| —                                          | 324              | —   |                                |
| —                                          | 326              | —   |                                |
| —                                          | 328              | —   |                                |

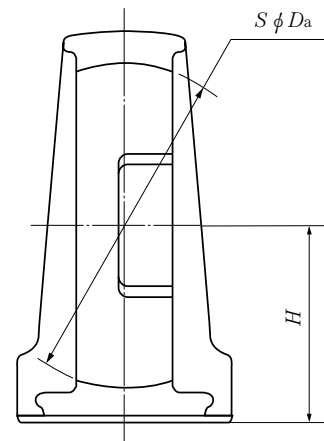
Note: 1)  $H$  is height of the shaft center line.

2) This table can be applied for bearing units with dust covers.

Table 5.6 (2) Pillow block resin housings

Unit: mm/inch

| Housing numbers | $H$ Deviations<br>$\Delta H_s$ |
|-----------------|--------------------------------|
| PR204           | $\pm 0.25$<br>$\pm 0.010$      |
| PR205           |                                |
| PR206           |                                |
| PR207           |                                |
| PR208           |                                |



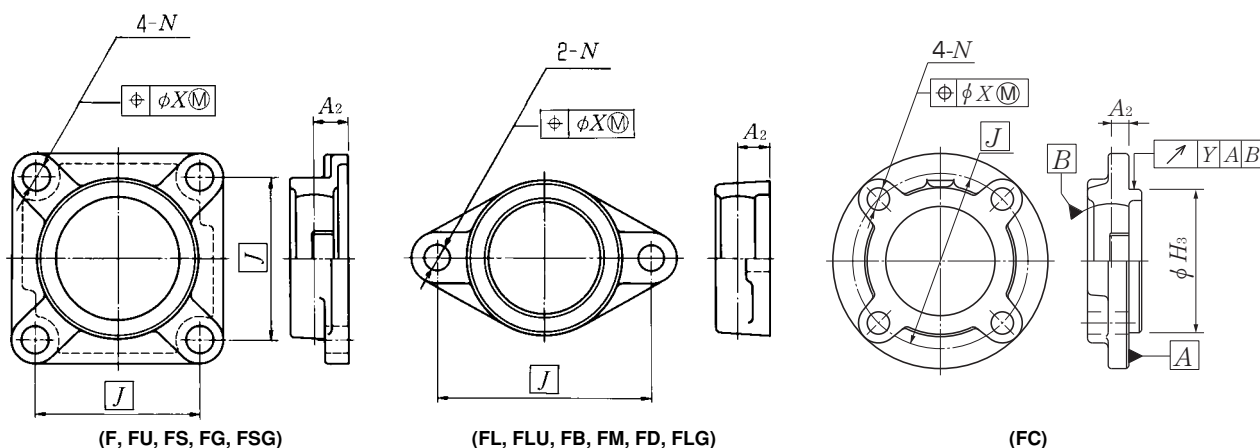


Table 5.7 (1) Flange unit housings

Unit: mm/inch

| Housing numbers                                    |                             |           | location<br>tolerance<br>of bolt<br>hole | $A_2$<br>Devia-<br>tions<br>$\Delta A_{2s}$ | $H_3$ Deviations |                   |           |                   |        |                   | Radial<br>runout<br>of spigo<br>joint<br>$\Delta r_s$<br>(max.) |                   |              |
|----------------------------------------------------|-----------------------------|-----------|------------------------------------------|---------------------------------------------|------------------|-------------------|-----------|-------------------|--------|-------------------|-----------------------------------------------------------------|-------------------|--------------|
| F, FU, FC<br>FL, FLU<br>FB, FM, FD<br>FG, FCG, FLG | F, FL, FS<br>FG, FLG<br>FSG | F, FC, FL |                                          |                                             | FC2, FCG2        |                   | FS3, FSG3 |                   | FCX    |                   |                                                                 |                   |              |
|                                                    |                             |           |                                          |                                             | high             | low               | high      | low               | high   | low               |                                                                 |                   |              |
| 201                                                | —                           | —         | 0.7<br>0.028                             | $\pm 0.5$<br>$\pm 0.020$                    | 0<br>0           | -0.046<br>-0.0018 | —         | —                 | —      | —                 | 0.2<br>0.008                                                    |                   |              |
| 204                                                | —                           | —         |                                          |                                             |                  |                   | 0<br>0    | -0.046<br>-0.0018 | 0<br>0 | -0.046<br>-0.0018 |                                                                 |                   |              |
| 205                                                | 305                         | X05       |                                          |                                             |                  |                   | 0<br>0    | -0.054<br>-0.0021 | 0<br>0 | -0.054<br>-0.0021 |                                                                 |                   |              |
| 206                                                | 306                         | X06       |                                          |                                             | 0<br>0           | -0.054<br>-0.0021 |           |                   |        |                   |                                                                 |                   |              |
| 207                                                | 307                         | X07       |                                          |                                             |                  |                   |           |                   |        |                   |                                                                 |                   |              |
| 208                                                | 308                         | X08       |                                          |                                             |                  |                   |           |                   |        |                   |                                                                 |                   |              |
| 209                                                | 309                         | X09       |                                          |                                             | 0<br>0           | -0.063<br>-0.0025 | 0<br>0    | -0.063<br>-0.0025 |        |                   |                                                                 |                   |              |
| 210                                                | 310                         | X10       |                                          |                                             |                  |                   |           |                   |        |                   |                                                                 |                   |              |
| 211                                                | 311                         | X11       | 1<br>0.039                               | $\pm 0.8$<br>$\pm 0.032$                    |                  |                   |           |                   | 0<br>0 | -0.063<br>-0.0025 | 0<br>0                                                          | -0.072<br>-0.0028 | 0<br>0       |
| 212                                                | 312                         | X12       |                                          |                                             |                  |                   |           |                   |        |                   |                                                                 |                   |              |
| 213                                                | 313                         | X13       |                                          |                                             |                  |                   |           |                   |        |                   |                                                                 |                   |              |
| 214                                                | 314                         | X14       |                                          |                                             |                  |                   |           |                   |        |                   |                                                                 |                   |              |
| 215                                                | 315                         | X15       |                                          |                                             |                  |                   |           |                   |        |                   |                                                                 |                   |              |
| 216                                                | 316                         | X16       |                                          |                                             |                  |                   |           |                   |        |                   |                                                                 |                   |              |
| 217                                                | 317                         | X17       |                                          |                                             |                  |                   |           |                   |        |                   |                                                                 |                   |              |
| 218                                                | 318                         | X18       |                                          |                                             |                  |                   |           |                   |        |                   |                                                                 |                   |              |
| —                                                  | 319                         | —         |                                          |                                             | 0<br>0           | -0.072<br>-0.0028 | 0<br>0    | -0.081<br>-0.0032 | 0<br>0 | -0.089<br>-0.0035 | —                                                               | —                 | 0.4<br>0.016 |
| —                                                  | 320                         | X20       |                                          |                                             |                  |                   |           |                   |        |                   |                                                                 |                   |              |
| —                                                  | 321                         | —         |                                          |                                             |                  |                   |           |                   |        |                   |                                                                 |                   |              |
| —                                                  | 322                         | —         |                                          |                                             |                  |                   |           |                   |        |                   |                                                                 |                   |              |
| —                                                  | 324                         | —         |                                          |                                             |                  |                   |           |                   |        |                   |                                                                 |                   |              |
| —                                                  | 326                         | —         |                                          |                                             |                  |                   |           |                   |        |                   |                                                                 |                   |              |
| —                                                  | 328                         | —         |                                          |                                             |                  |                   |           |                   |        |                   |                                                                 |                   |              |

Note: 1)  $J$  is the bolt hole's center line dimension, and P.C.D.  $A_2$  is distance between the center line of spherical bore diameter of the housing and mounting surfaces, and  $H_3$  is outside diameter of the spigot joint.

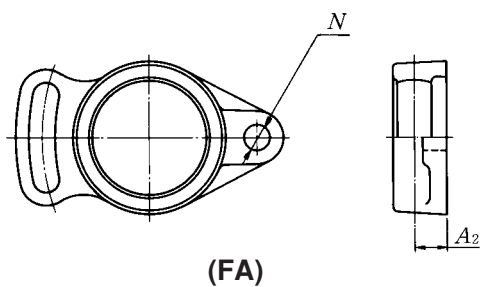
2) Radial runout of spigot joint is applied for flange units with spigot joints.

3) This table can be applied for bearing units with dust covers.

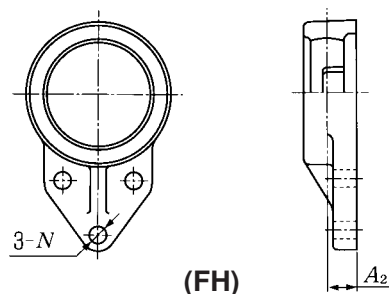
Table 5.7 (2) Flange unit housings (diameter of bolt hole)

Unit: mm/inch

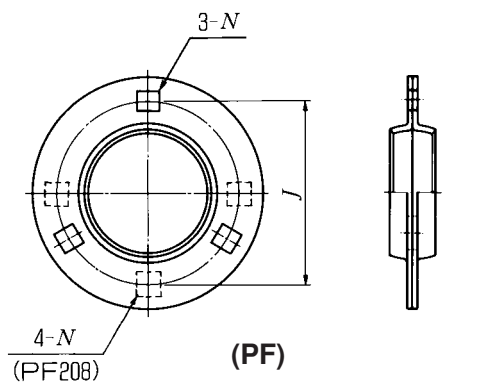
| Housing type          | Nominal bore diameter $N$ |        |    |        | $N$ Deviations $\Delta N_s$ |             |
|-----------------------|---------------------------|--------|----|--------|-----------------------------|-------------|
|                       | mm                        | over   | mm | incl.  | mm                          | inch        |
| F, FL, FC, FS, FB, FD | —                         | —      | 30 | 1.1811 | $\pm 0.2$                   | $\pm 0.008$ |
| FA, FH, FU, FLU, FM   | 30                        | 1.1811 | 51 | 2.008  | $\pm 0.3$                   | $\pm 0.012$ |
| FG, FLG, FCG, FSG     | —                         | —      | —  | —      | —                           | —           |



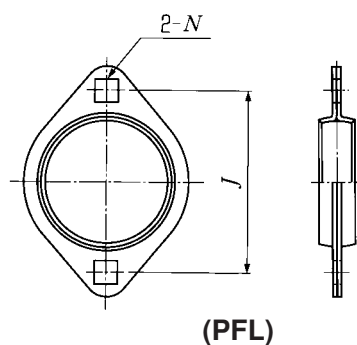
(FA)



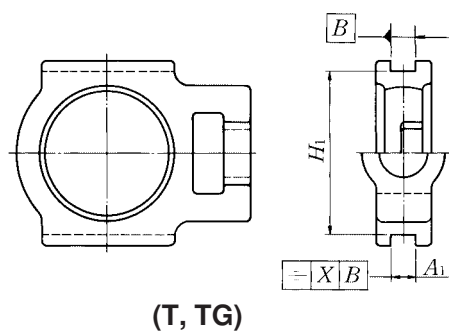
(FH)



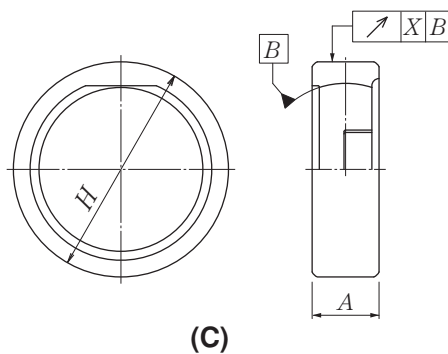
(PF)



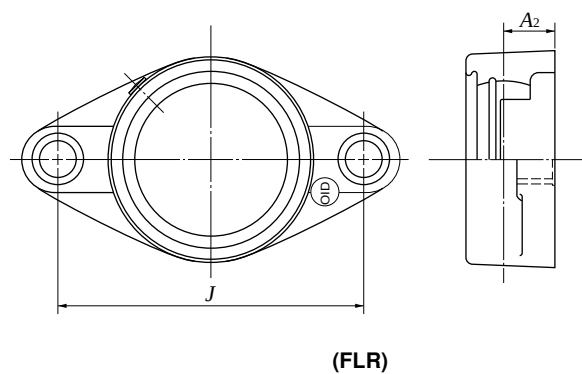
(PFL)



(T, TG)



(C)



(FLR)

Table 5.8 (1) Flanged units housings (FH, FA, PF, PFL) Unit: mm/inch

| Housing numbers                                                                              | $A_2$ Deviations<br>$\Delta A_{2s}$ | Housing numbers                                                                  | $J$ Deviations<br>$\Delta J_s$ | $N$ Deviations<br>$\Delta N_s$ |
|----------------------------------------------------------------------------------------------|-------------------------------------|----------------------------------------------------------------------------------|--------------------------------|--------------------------------|
| —<br>FH, FA204<br>FH, FA205<br>FH, FA206<br>FH, FA207<br>FH, FA208<br>FH, FA209<br>FH, FA210 | $\pm 0.5$<br>$\pm 0.020$            | PF203<br>PF204<br>PF205<br>PF206<br>PF207<br>PF208<br>PFL203<br>PFL204<br>PFL205 | $\pm 0.4$<br>$\pm 0.016$       | $\pm 0.25$<br>$\pm 0.010$      |
| FA211                                                                                        | $\pm 0.8$<br>$\pm 0.032$            | PFL206<br>PFL207                                                                 |                                |                                |

Note: 1)  $A_2$  is distance between the center line of spherical bore diameter of housings.

2)  $J$  is the bolt hole's center line dimension.

Table 5.8 (2) Flanged units housings (FLR) Unit: mm/inch

| Housing numbers | $J$ Deviations<br>$\Delta J_s$ | $A_2$ Deviations<br>$\Delta A_{2s}$ |
|-----------------|--------------------------------|-------------------------------------|
| FLR204          | $\pm 0.7$<br>$\pm 0.028$       | $\pm 0.5$<br>$\pm 0.020$            |
| FLR205          |                                |                                     |
| FLR206          |                                |                                     |
| FLR207          |                                |                                     |
| FLR208          |                                |                                     |



Table 5.9 Take-up unit housings (T, TG)

Unit: mm/inch

| Housing numbers |       |     | A <sub>1</sub><br>Deviations<br>$\Delta A_{1s}$ | H <sub>1</sub><br>Deviations<br>$\Delta H_{1s}$ |                | Parallelism<br>of guide |
|-----------------|-------|-----|-------------------------------------------------|-------------------------------------------------|----------------|-------------------------|
| T, TG           | T, TG | T   |                                                 | high                                            | low            |                         |
| 204             | —     | —   | +0.2<br>0<br>+0.008<br>0                        | 0<br>0                                          | -0.5<br>-0.020 | 0.5<br>0.020            |
| 205             | 305   | X05 |                                                 |                                                 |                |                         |
| 206             | 306   | X06 |                                                 |                                                 |                |                         |
| 207             | 307   | X07 |                                                 |                                                 |                |                         |
| 208             | 308   | X08 |                                                 |                                                 |                |                         |
| 209             | 309   | X09 |                                                 |                                                 |                |                         |
| 210             | 310   | X10 |                                                 |                                                 |                |                         |
| 211             | 311   | X11 | +0.3<br>0<br>+0.012<br>0                        | 0<br>0                                          | -0.8<br>-0.032 | 0.6<br>0.024            |
| 212             | 312   | X12 |                                                 |                                                 |                |                         |
| 213             | 313   | X13 |                                                 |                                                 |                |                         |
| 214             | 314   | X14 |                                                 |                                                 |                |                         |
| 215             | 315   | X15 |                                                 |                                                 |                |                         |
| 216             | 316   | X16 |                                                 |                                                 |                |                         |
| 217             | 317   | X17 |                                                 |                                                 |                |                         |
| —               | 318   | —   |                                                 |                                                 |                | 0.7<br>0.028            |
| —               | 319   | —   |                                                 |                                                 |                |                         |
| —               | 320   | —   |                                                 |                                                 |                |                         |
| —               | 321   | —   |                                                 |                                                 |                |                         |
| —               | 322   | —   |                                                 |                                                 |                |                         |
| —               | 324   | —   |                                                 |                                                 |                |                         |
| —               | 326   | —   |                                                 |                                                 |                | 0.8<br>0.032            |
| —               | 328   | —   |                                                 |                                                 |                |                         |

Note: 1) A<sub>1</sub> is the width of guide rail grooves.

2) H<sub>1</sub> is the maximum span of guide rail grooves.

3) This table can be applied for bearing units with dust covers.

Table 5.10 Cartridge unit housings (C)

Unit: mm/inch

| Housing numbers |      |      | H Deviations $\Delta H_s$ |                   |        |                   |        |                   | Radial<br>runout of<br>outside<br>surface | A<br>Devia-<br>tions<br>$\Delta A_s$ |
|-----------------|------|------|---------------------------|-------------------|--------|-------------------|--------|-------------------|-------------------------------------------|--------------------------------------|
|                 |      |      | C2                        |                   | C3     |                   | CX     |                   |                                           |                                      |
|                 |      |      | high                      | low               | high   | low               | high   | low               |                                           |                                      |
| C204            | —    | —    | 0<br>0                    | −0.030<br>−0.0012 | —      | —                 | —      | —                 | 0.2<br>0.008                              | ±0.2<br>±0.008                       |
| C205            | C305 | CX05 |                           |                   |        |                   |        |                   |                                           |                                      |
| C206            | C306 | CX06 |                           |                   | 0<br>0 | −0.035<br>−0.0014 | 0<br>0 | −0.035<br>−0.0014 |                                           |                                      |
| C207            | C307 | CX07 |                           |                   |        |                   |        |                   |                                           |                                      |
| C208            | C308 | CX08 | 0<br>0                    | −0.035<br>−0.0014 |        |                   |        |                   |                                           |                                      |
| C209            | C309 | CX09 |                           |                   |        |                   |        |                   | 0.3<br>0.012                              | ±0.3<br>±0.012                       |
| C210            | C310 | CX10 |                           |                   |        |                   | 0<br>0 | −0.040<br>−0.0016 |                                           |                                      |
| C211            | C311 | CX11 | 0<br>0                    | −0.040<br>−0.0016 | 0<br>0 | −0.040<br>−0.0016 |        |                   |                                           |                                      |
| C212            | C312 | CX12 |                           |                   |        |                   |        |                   |                                           |                                      |
| C213            | C313 | —    |                           |                   |        |                   |        |                   |                                           |                                      |
| —               | C314 | —    |                           |                   |        |                   |        |                   |                                           |                                      |
| —               | C315 | —    |                           |                   |        |                   |        |                   |                                           |                                      |
| —               | C316 | —    |                           |                   | 0<br>0 | −0.046<br>−0.0018 |        |                   |                                           |                                      |
| —               | C317 | —    |                           |                   |        |                   |        |                   |                                           |                                      |
| —               | C318 | —    |                           |                   |        |                   |        |                   |                                           |                                      |
| —               | C319 | —    | —                         | —                 |        |                   | —      | —                 |                                           |                                      |
| —               | C320 | —    |                           |                   | 0<br>0 | −0.052<br>−0.0020 |        |                   |                                           |                                      |
| —               | C321 | —    |                           |                   |        |                   |        |                   |                                           |                                      |
| —               | C322 | —    |                           |                   |        |                   |        |                   |                                           |                                      |
| —               | C324 | —    |                           |                   |        |                   |        |                   |                                           |                                      |
| —               | C326 | —    |                           |                   | 0<br>0 | −0.057<br>−0.0022 |        |                   |                                           |                                      |
| —               | C328 | —    |                           |                   |        |                   |        |                   |                                           |                                      |

Note: 1) H is the outside diameter of cartridge housings.

2) A is width of cartridge housings.

## 6. Basic Load Rating and Life

### 6.1 Bearing life

Even in bearings operating under normal conditions, the surfaces of the raceway and rolling elements are constantly being subjected to repeated compressive stresses which cause flaking of these surfaces to occur. This flaking is due to material fatigue and will eventually cause the bearings to fail. The effective life of a bearing is usually defined in terms of the total number of revolutions a bearing can undergo before flaking of either the raceway surface or the rolling element surfaces occurs.

Other causes of bearing failure are often attributed to problems such as seizing, abrasions, cracking, chipping, gnawing, rust, etc. However, these so called "causes" of bearing failure are usually themselves caused by improper installation, insufficient or improper lubrication, faulty sealing or inaccurate bearing selection. Since the above mentioned "causes" of bearing failure can be avoided by taking the proper precautions, and are not simply caused by material fatigue, they are considered separately from the flaking aspect.

### 6.2 Basic rating life and basic dynamic load rating

A group of seemingly identical bearings when subjected to identical load and operating conditions will exhibit a wide diversity in their durability.

This "life" disparity can be accounted for by the difference in the fatigue of the bearing material itself. This disparity is considered statistically when calculating bearing life, and the basic rating life is defined as follows.

The basic rating life is based on a 90% statistical model which is expressed as the total number of revolutions 90% of the bearings, in an identical group of bearings subjected to identical operating conditions, will attain or surpass before flaking due to material fatigue occurs. For bearings operating at fixed constant speeds, the basic rating life (90% reliability) is expressed in the total number of hours of operation.

The basic dynamic load rating is an expression of the load capacity of a bearing based on a constant load which the bearing can sustain for one million revolutions (the basic life rating). For radial bearings this rating applies to pure radial loads, and for thrust bearings it refers to pure axial loads. The basic dynamic load ratings given in the bearing tables of this catalog are for bearings constructed of **OID** standard bearing materials, using standard manufacturing techniques. Please consult **OID** for basic load ratings of bearings constructed of special materials or using special manufacturing techniques.

The relationship between the basic rated life, the basic dynamic load rating and the bearing load is given in formula (6.1).

$$L_{10} = \left( \frac{C_r}{P_r} \right)^3 \dots\dots\dots (6.1)$$

where,

$L_{10}$ : Basic rating life  $10^6$  revolutions

$C_r$ : Basic dynamic load rating, **N**, lbf

$P_r$ : Equivalent dynamic load, **N**, lbf

The basic rated life can also be expressed in terms of hours of operation (revolution), and is calculated as shown in formula (6.2).

$$L_{10h} = 500 f_n^3 \dots\dots\dots (6.2)$$

$$f_n = f_n \frac{C_r}{P_r} \dots\dots\dots (6.3)$$

$$f_n = \left( \frac{33.3}{n} \right)^{1/3} \dots\dots\dots (6.4)$$

where,

$L_{10h}$ : Basic rating life, h

$f_n$ : Life factor

$f_n$ : Speed factor

$n$ : Rotational speed,  $\text{min}^{-1}$

Formula (6.2) can also be expressed as shown in formula (6.5).

$$L_{10h} = \frac{10^6}{60n} \left( \frac{C_r}{P_r} \right)^3 \dots\dots\dots (6.5)$$

The relation between rotational speed  $n$  and speed factor  $f_n$  as well as the relation between the basic rated life  $L_{10h}$  and the life factor  $f_n$  is shown in Fig. 6.1.

When several bearings are incorporated in machines or equipment as complete units, all the bearings in the unit are considered as a whole when computing bearing life (see formula 6.6). The total bearing life of the unit is a life rating based on the viable lifetime of the unit before even one of the bearings fails due to rolling contact fatigue.

$$L = \frac{1}{\left( \frac{1}{L_1^{1.1}} + \frac{1}{L_2^{1.1}} + \dots\dots\dots + \frac{1}{L_n^{1.1}} \right)^{1/1.1}} \dots\dots\dots (6.6)$$

where,

$L$ : Total life of the whole bearing assembly h

$L_1, L_2 \dots L_n$ : Rated life of bearings 1, 2,  $\dots n$ , h

In the case where load and the number of revolutions change at regulated intervals, after finding the rated life  $L_1, L_2, \dots, L_n$  under conditions of  $n_1, p_1 : n_2, p_2 : \dots n_n, p_n$ ; the built-in life  $L_m$  can be given by the formula (6.7).

$$L_1 = \frac{10^6}{60n_1} \left( \frac{C_r}{P_1} \right)^3$$

$$L_2 = \frac{10^6}{60n_2} \left( \frac{C_r}{P_2} \right)^3$$

$$\vdots$$

$$L_n = \frac{10^6}{60n_n} \left( \frac{C_r}{P_n} \right)^3$$

$$L_m = \left( \frac{\phi_1}{L_1} + \frac{\phi_2}{L_2} + \dots + \frac{\phi_n}{L_n} \right)^{-1} \dots \dots \dots (6.7)$$

where,

$L_1, L_2, \dots, L_n$ : Rated life under condition 1, 2,  $\dots n$ , h

$n_1, n_2, \dots, n_n$ : Number of revolutions under condition 1, 2,  $\dots n$ ,  $\text{min}^{-1}$

$P_1, P_2, \dots, P_n$ : Equivalent load under condition 1, 2,  $\dots n$ , N, lbf

$\phi_1, \phi_2, \dots, \phi_n$ : Ratio of condition 1, 2,  $\dots n$ , accounting for the total operating time

$L_m$ : Built-in life, h

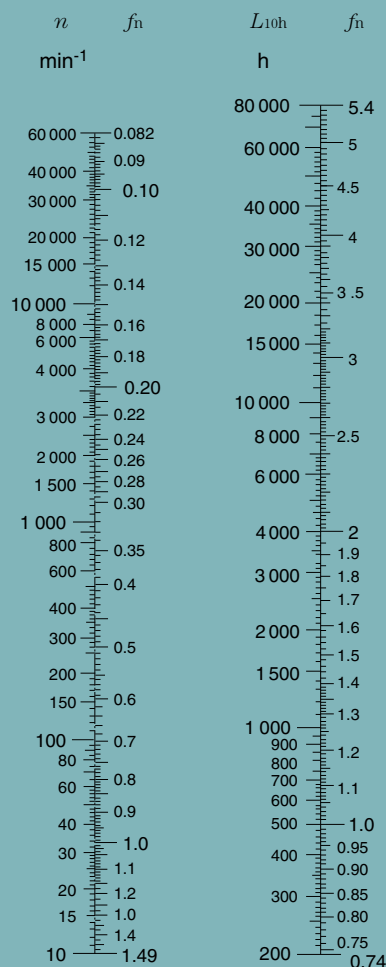


Fig. 6.1 Bearing life rating scale

Table 6.1 Rating life for applications

| Service classification                                                      | Machine application                                                                        | Life time $L_n$   |
|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------|
| Machines used occasionally                                                  | Door mechanisms, Garage shutter                                                            | 500               |
| Equipment for short period or intermittent service interruption permissible | Household appliances, Electric hand tools, Agricultural machines, Lifting tackles in shops | 4 000 ~ 8 000     |
| Intermittent service machines-high reliability                              | Power-Station auxiliary equipment, Elevators, Conveyors, Deck cranes                       | 8 000 ~ 14 000    |
| Machines used for 8 hours a day, but not always in full operation           | Ore wagon axles, Important gear units                                                      | 14 000 ~ 20 000   |
| Machines fully used for 8 hours                                             | Blowers, General machinery in shops, Continuous operation cranes                           | 20 000 ~ 30 000   |
| Machines continuously used for 24 hours a day                               | Compressors, Pumps                                                                         | 50 000 ~ 60 000   |
| Machines continuously used for 24 hours a day with maximum reliability      | Power-station equipment, Water-supply equipment for urban areas, Mine ventilators          | 100 000 ~ 200 000 |

### 6.3 Machine applications and requisite life

When selecting a bearing, it is essential that the requisite life of the bearing be established in relation to the operating conditions. The requisite life of the bearing is usually determined by the type of machine the bearing is to be used in, and duration of service and operational reliability requirements. A general guide to these requisite life criteria is shown in Table 6.1. When determining bearing size, the fatigue life of the bearing is an important factor; however, besides bearing life, the strength and rigidity of the shaft and housing must also be taken into consideration.

### 6.4 Adjusted life rating factor based on ISO281:1990

The basic bearing life rating (90% reliability factor) can be calculated through the formulas mentioned earlier in Section 6.2. However, in some applications a bearing life factor of over 90% reliability may be required. To meet these requirements, bearing life can be lengthened by the use of specially improved bearing materials or special construction techniques. Moreover, according to elastohydrodynamic lubrication theory, it is clear that the bearing operating conditions (lubrication, temperature, speed, etc.) all exert an effect on bearing life. All these adjustment factors are taken into consideration when calculating bearing life, and using the life adjustment factor as prescribed in ISO 281, the adjusted bearing life can be arrived at.

$$L_{na} = a_1 a_2 a_3 \left( \frac{C}{P} \right)^3 \text{-----} (6.8)$$

where,

$L_{na}$  : Adjusted rating life in millions of revolutions ( $10^6$ )

$a_1$  : Reliability factor

$a_2$  : Bearing characteristics factor

$a_3$  : Operating conditions factor

#### 6.4.1 Reliability factor $a_1$

The values for the reliability adjustment factor  $a_1$  (for a reliability factor higher than 90%) can be found in Table 6.2.

#### 6.4.2 Bearing characteristics factor $a_2$

The life of a bearing is affected by the material type and quality as well as the manufacturing process. In this regard, the life is adjusted by the use of an  $a_2$  factor.

The basic dynamic load ratings listed in the catalog are based on OID's standard material and process, therefore, the adjustment factor  $a_2 = 1$ . When special materials or processes are used the adjustment factor  $a_2$  can be larger than 1.

**OID** bearings can generally be used up to **120°C**. If bearings are operated at a higher temperature, the bearing

must be specially heat treated (stabilized) so that inadmissible dimensional change does not occur due to micro-structure change. This special heat treatment might cause the reduction of bearing life because of a hardness change.

**Table 6.2 Reliability factor  $a_1$**

| Reliability % | $L_n$    | Reliability factor $a_1$ |
|---------------|----------|--------------------------|
| 90            | $L_{10}$ | 1.00                     |
| 95            | $L_5$    | 0.62                     |
| 96            | $L_4$    | 0.53                     |
| 97            | $L_3$    | 0.44                     |
| 98            | $L_2$    | 0.33                     |
| 99            | $L_1$    | 0.21                     |

#### 6.4.3 Operating conditions factor $a_3$

Operating conditions factor  $a_3$  is used to compensate for when lubrication condition worsens due to rise in temperature or rotational speed, lubricant deteriorates, or becomes contaminated with foreign matter.

Generally speaking, when lubricating conditions are satisfactory, the  $a_3$  factor has a value of one; and when lubricating conditions are exceptionally favorable, and all other operating conditions are normal,  $a_3$  can have a value greater than one.

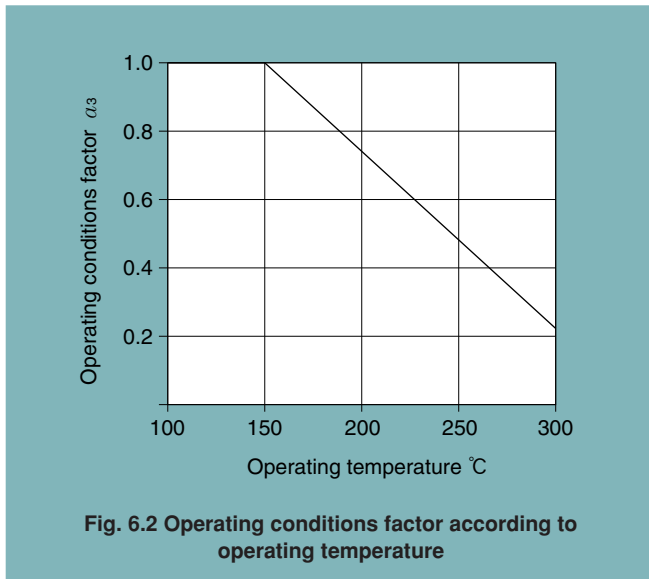
However, when lubricating conditions are particularly unfavorable and the oil film formation on the contact surfaces of the raceway and rolling elements is insufficient, the value of  $a_3$  becomes less than one. This insufficient oil film formation can be caused, for example, by the lubricating oil viscosity being too low for the operating temperature (below 13 mm<sup>2</sup>/s for ball bearings) ; or by exceptionally low rotational speed ( $n \text{ min}^{-1} \times d_p \text{ mm}$  less than 10000). For bearings used under special operating conditions, please consult

**OID.**

- Bearing operating temperature is too high

If bearing operating temperature is too high, the raceway becomes softened, thereby shortening life.

Life is adjusted by multiplying by the values given in fig.6.2 as the operating condition factor according to operating temperature. This however does not apply to bearings that have been treated to stabilize dimensions.



## 6.5 Basic static load rating

When stationary rolling bearings are subjected to static loads, they suffer from partial permanent deformation of the contact surfaces at the contact point between the rolling elements and the raceway. The amount of deformity increases as the load increases, and if this increase in load exceeds certain limits, the subsequent smooth operation of the bearing is impaired.

It has been found through experience that a permanent deformity of 0.0001 times the diameter of the rolling element, occurring at the most heavily stressed contact point between the raceway and the rolling elements, can be tolerated without any impairment in running efficiency.

The basic rated static load refers to a fixed static load limit at which a specified amount of permanent deformation occurs. It applies to pure radial loads for radial bearings. The maximum applied load values for contact stress occurring at the rolling element and raceway contact points are given below.

For ball bearings (for bearing unit) : 4200 Mpa.

## 6.6 Allowable static equivalent load

Generally the static equivalent load which can be permitted (see section 7.3) is limited by the basic static rated load as stated in Section 6.5. However, depending on requirements regarding friction and smooth operation, these limits may be greater or lesser than the basic static rated load.

In the following formula (6.9) and Table 6.4 the safety factor  $S_o$  can be determined considering the maximum static equivalent load.

$$S_o = \frac{C_o}{P_{o\max}} \dots\dots\dots (6.9)$$

where,

$S_o$ : Safety factor

$C_o$ : Basic static load rating, N, lbf

$P_{o\max}$ : Maximum static equivalent load, N, lbf

**Table 6.4 Minimum safety factor values  $S_o$**

| Operating conditions                                                                   | Ball bearings |
|----------------------------------------------------------------------------------------|---------------|
| High rotational accuracy demand                                                        | 2             |
| Normal rotating accuracy demand<br>(Universal application)                             | 1             |
| Slight rotational accuracy deterioration permitted<br>(Low speed, heavy loading, etc.) | 0.5           |

Note :1) When vibration and/or shock loads are present, a load factor based on the shock load needs to be included in the  $P_{o\max}$  value.

## 7. Loads

### 7.1 Load acting on the bearing

It is very rare that the load on a bearing can be obtained by a simple calculation. Loads applied to the bearing generally include the weight of the rotating element itself, the load produced by the working of the machine, and the load resulting from transmission of power by the belt and gearwheel. Such loads include the radial load, which works on the bearing at right angles to its axis, and the thrust load, which works on the bearing parallel to its axis. These can work either singly or in combination. In addition, the operation of a machine inevitably produces a varying degree of vibrations and shocks. To take this into account, the theoretical value of a load is multiplied by a safety factor that has been derived from past experience. This is known as the "load factor".

$$\text{Load acting on the bearing} = \text{Load factor } f_w \times \text{Calculated load}$$

Table 7.1 below shows the generally accepted load factors  $f_w$  which correspond to the degree of shock to which the machine is subjected.

#### 7.1.1 Load applied to the bearing by power transmission

The force working on the shaft when power is transmitted by belts, chains or gearwheels is obtained, in general, by the following formula:

$$T = 9\,550 \frac{H}{n}, 84\,500 \frac{H}{n} \dots\dots\dots (7.1)$$

$$K_t = \frac{T}{r} \dots\dots\dots (7.2)$$

where,

$T$  : Torque, **N·m**, lbf·inch.

$H$  : Transmission power, kW

$n$  : Rotational speed, min<sup>-1</sup>

$K_t$  : Transmission force (effective transmission force of belt or chain; tangential force of gearwheel), **N**, lbf

$r$  : effective radius of belt pulley, sprocket wheel or gearwheel, **m**, inch

Accordingly, the load actually applied to the shaft by the transmission force can be obtained by the following formula:

$$\text{Actual load} = \text{Factor} \times K_t \dots\dots\dots (7.3)$$

Different factors are adopted according to the transmission system in use. These will be dealt with in the following paragraphs.

#### Belt transmission

When power is transmitted by belt, the effective transmission force working on the belt pulley is calculated by formula (7.2). The term "effective transmission force of the belt" refers to the difference in tension between the tensioned side and the loose side of the belt. Therefore, to obtain the load actually acting on the shaft through the medium of the belt pulley, it is necessary to multiply the effective transmission force by a factor which takes into account the type of belt and the initial tension. This is known as the "belt factor".

**Table 7.1 Load factors  $f_w$**

| Load conditions                                            | $f_w$      | Examples                                                                                                                                                                                                                                                        |
|------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Little or no shock                                         | 1 to 1.2   | Machines tools, electric machines, etc.                                                                                                                                                                                                                         |
| Some degree of shock;<br>machines with reciprocating parts | 1.2 to 1.5 | Vehicles, driving mechanism, metal-working machinery, steel-making machines, paper-making machinery, rubber mixing machines, hydraulic equipment, hoists, transportation machinery, power-transmission equipment, woodworking machines, printing machines, etc. |
| violent shocks                                             | 1.5 to 3   | Agricultural machines, vibrator screens, ball and tube mills, etc.                                                                                                                                                                                              |

In the case of power transmission by belts, gear wheels, etc., load factors adopted are somewhat different from the above. Factors used for power transmission by belts, gearwheels and chains, respectively, are given in the following sections.

**Table 7.2 Belt factors  $f_b$**

| Belt type                       | $f_b$      |
|---------------------------------|------------|
| V-belt                          | 1.5 to 2.0 |
| Timing belt                     | 1.1 to 1.3 |
| Flat belt (with tension pulley) | 2.5 to 3.0 |
| Flat belt                       | 3.0 to 4.0 |

Note :In cases where the distance between shafts is short, the revolution speed is low, or where operating conditions are severe, the higher  $f_b$  values should be adopted.

### Gear transmission

In the case of gear transmissions, the theoretical gear load can be calculated from the transmission force and the type of gear. With spur gears, only a radial load is involved; whereas, with helical gears and bevel gears, an additional axial load is present.

The simplest case is that of spur gears. In this instance, the tangential force  $K_t$  is obtained from the formula (7.2) and the radial force  $K_s$  can be obtained from the following formula:

$$K_s = K_t \cdot \tan \alpha \quad \text{..... (7.4)}$$

where,

$\alpha$  : is the pressure angle of the gear.

Accordingly, the theoretical composite force,  $K_r$ , working on the gear is obtained from the following formula:

$$K_r = \sqrt{K_t^2 + K_s^2} = K_t \cdot \sec \alpha \quad \text{..... (7.5)}$$

Therefore, to obtain the radial load actually working on the shaft, the theoretical composite force, as above, is multiplied by a factor in which the accuracy and the degree of precision of the gear is taken into account. This is called the "gear factor" and is represented by the symbol  $f_z$ . In Table 7.3 is below,  $f_z$  values for spur wheels are given.

The gear factor is essentially almost the same as the previously described load factor,  $f_w$ . In some cases, however, vibrations and shocks are produced also by the machine of which the gear is a part. Here it is necessary to calculate the actual load working on the gear by further multiplying the gear load, as obtained above, by the load factor shown in Table 7.1, according to the degree of shock.

**Table 7.3 Gear factors  $f_z$**

| Gear                                                                                                                 | $f_z$       |
|----------------------------------------------------------------------------------------------------------------------|-------------|
| Precision gears (tolerance 0.02 mm 0.0008 inch max., for both pitch and shape)                                       | 1.05 to 1.1 |
| Gears finished by ordinary machining work (tolerance 0.02 to 0.1 mm, 0.0008 to 0.0039 inch for both pitch and shape) | 1.1 to 1.3  |

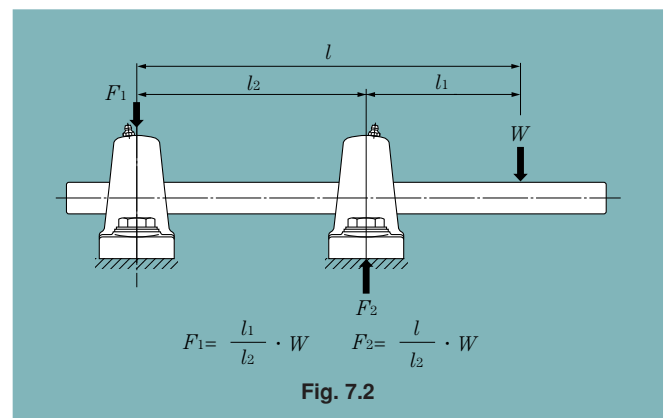
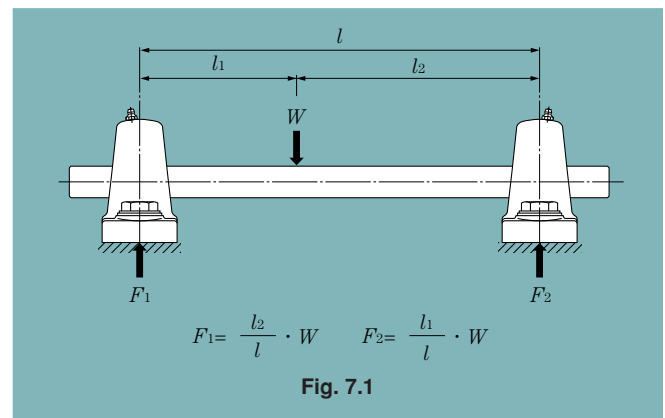
### Chain transmission

When power is transmitted by chain, the effective transmission force working on the sprocket wheel is calculated by formula (7.2). To obtain the load actually working, the effective transmission force must be multiplied by the "chain factor", 1.2 to 1.5.

### 7.1.2 Distribution of the radial load

The load acting on the shaft is distributed to the bearings which support the shaft.

In Fig. 7.1, the load is applied to the shaft between two bearings; in Fig. 7.2 the load is applied to the shaft outside the two bearings. In practice, however, most cases are combinations of Fig. 7.1 and 7.2, and the load is usually a composite load, that is to say, a combination of radial and axial loads. Therefore they are calculated by the methods described in the following sections.





## 7.2 Dynamic equivalent radial load

For ball bearings used in the **OID** unit, the basic rated dynamic loads  $C_r$  mentioned in the table of dimensions are applicable only when the load is purely radial. In practice, however, bearings are usually subjected to a composite load. As the table of dimensions is not directly applicable here, it is necessary to convert the values of the radial and axial loads into a single radial load value that would have an effect on the life of bearing equivalent to that of the actual load applied. This is known as the "dynamic equivalent radial load", and from this the life of the ball bearings for the unit is calculated. The dynamic equivalent radial load is calculated by the following formula:

$$P_r = X \cdot F_r + Y \cdot F_a \quad (7.6)$$

where,

$P_r$  : Dynamic equivalent radial load, **N**, lbf

$F_r$  : Actual radial load, **N**, lbf

$F_a$  : Actual axial load, **N**, lbf

$X$  : Radial load factor

$Y$  : Axial load factor

Values of  $X$  and  $Y$  are shown in Table 7.4 below.

**Table 7.4 Dynamic equivalent radial load**

$P_r = X \cdot F_r + Y \cdot F_a$

| $\frac{f_o \cdot F_a}{C_{or}}$ | $e$  | $\frac{F_a}{F_r} \leq e$ |     | $\frac{F_a}{F_r} > e$ |      |
|--------------------------------|------|--------------------------|-----|-----------------------|------|
|                                |      | $X$                      | $Y$ | $X$                   | $Y$  |
| 0.172                          | 0.19 |                          |     |                       | 2.30 |
| 0.345                          | 0.22 |                          |     |                       | 1.99 |
| 0.689                          | 0.26 |                          |     |                       | 1.71 |
| 1.03                           | 0.28 |                          |     |                       | 1.55 |
| 1.38                           | 0.30 | 1                        | 0   | 0.56                  | 1.45 |
| 2.07                           | 0.34 |                          |     |                       | 1.31 |
| 3.45                           | 0.38 |                          |     |                       | 1.15 |
| 5.17                           | 0.42 |                          |     |                       | 1.04 |
| 6.89                           | 0.44 |                          |     |                       | 1.00 |

Note 1) The  $f_o$  factor for calculating equivalent radial load has been added to the dimensional tables in the catalog.

2)  $C_{or}$  is the basic static load rating. (See the table of dimensions.)

When the value of  $\frac{f_o \cdot F_a}{C_{or}}$  or  $\frac{F_a}{F_r}$  is not in conformity with those given in Table 7.4 above, find the value by interpolation.

## 7.3 Static equivalent radial load

In the case of a bearing which is stationary, rotates at a low speed of about 10 rpm, or makes slight oscillating movements, it is necessary to take into account the static equivalent radial load, which is the counterpart of the dynamic equivalent radial load of a rotating bearing. In this case, the following formula is used.

$$P_{or} = X_o \cdot F_r + Y_o \cdot F_a \quad (7.7)$$

where,

$P_{or}$  : Static equivalent radial load, **N**, lbf

$F_r$  : Actual radial load, **N**, lbf

$F_a$  : Actual axial load, **N**, lbf

$X_o$  : Static radial load factor

$Y_o$  : Static axial load factor

With the ball bearings for the **OID** unit, the values of  $X_o$  and  $Y_o$  are  $X_o = 0.6$   $Y_o = 0.5$ .

However when only radial load is involved, or when  $F_a / F_r \leq e$ , the following values in used:

$$X_o = 1 \quad Y_o = 0$$

Accordingly, the following equation holds.

$$P_{or} = F_r \quad (7.8)$$



## 8. Bearing Internal Clearance

### 8.1 Bearing internal clearance

Bearing internal clearance (initial clearance) is the amount of internal clearance a bearing has before being installed on a shaft or in a housing.

As shown in Fig. 8.1, when either the inner ring or the outer ring is fixed and the other ring is free to move, displacement can take place in either an axial or radial direction. This amount of displacement (radially or axially) is termed the internal clearance and, depending on the direction, is called the radial internal clearance or the axial internal clearance.

When the internal clearance of a bearing is measured, a slight measurement load is applied to the raceway so the internal clearance may be measured accurately. However, at this time, a slight amount of elastic deformation of the bearing occurs under the measurement load, and the clearance measurement value (measured clearance) is slightly larger than the true clearance. This discrepancy between the true bearing clearance and the increased amount due to the elastic deformation must be compensated for. These compensation values are given in Table 8.1.

The internal clearance values for each bearing class are shown in Tables 8.3.

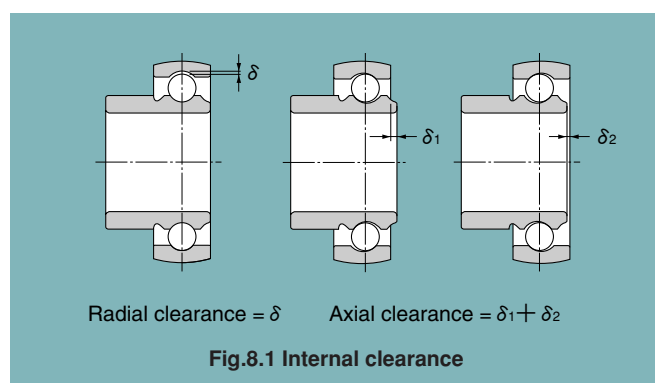


**Table 8.1 Adjustment of radial internal clearance based on measured load**

Unit:  $\mu\text{m}$

| Nominal bore diameter $d$ (mm) |       | Measuring load (N) | Radial clearance increase |    |    |    |    |
|--------------------------------|-------|--------------------|---------------------------|----|----|----|----|
| over                           | incl. |                    | C2                        | CN | C3 | C4 | C5 |
| 10                             | 18    | 24.5               | 3~4                       | 4  | 4  | 4  | 4  |
| 18                             | 50    | 49                 | 4~5                       | 5  | 6  | 6  | 6  |
| 50                             | 200   | 147                | 6~8                       | 8  | 9  | 9  | 9  |

### 8.2 Internal clearance selection

The internal clearance of a bearing under operating conditions (effective clearance) is usually smaller than the same bearing's initial clearance before being installed and operated. This is due to several factors including bearing fit, the difference in temperature between the inner and outer rings, etc. As a bearing's operating clearance has an effect on bearing life, heat generation, vibration, noise, etc.; care must be taken in selecting the most suitable operating clearance.

#### Effective internal clearance:

The internal clearance differential between the initial clearance and the operating (effective) clearance (the amount of clearance reduction caused by interference fits, or clearance variation due to the temperature difference between the inner and outer rings) can be calculated by the following formula:

$$\delta_{\text{eff}} = \delta_o - (\delta_f + \delta_t) \quad (8.1)$$

where,

$\delta_{\text{eff}}$ : Effective internal clearance,  $\text{mm}$

$\delta_o$ : Bearing internal clearance,  $\text{mm}$

$\delta_f$ : Reduced amount of clearance due to interference,  $\text{mm}$

$\delta_t$ : Reduced amount of clearance due to temperature differential of inner and outer rings,  $\text{mm}$

#### Reduced clearance due to interference:

When bearings are installed with interference fits on shafts and in housings, the inner ring will expand and the outer ring will contract; thus reducing the bearings' internal clearance. The amount of expansion or contraction varies depending on the shape of the bearing, the shape of the shaft or housing, dimensions of the respective parts, and the type of materials used. The differential can range from approximately 70% to 90% of the effective interference.

$$\delta_f = (0.70 \sim 0.90) \cdot \Delta_{\text{def}} \quad (8.2)$$

where,

$\delta_f$ : Reduced amount of clearance due to interference,  $\text{mm}$

$\Delta_{\text{def}}$ : Effective interference,  $\text{mm}$

#### Reduced internal clearance due to inner/outer ring temperature difference:

During operation, normally the outer ring will be from 5° to 10°C cooler than the inner ring or rotating parts. However, if the cooling effect of the housing is large, the shaft is connected to a heat source, or a heated substance is conducted through the hollow shaft; the temperature difference between the two rings can be even greater. The amount of internal clearance is thus further reduced by the differential expansion of the two rings.

$$\delta_t = \alpha \cdot \Delta T \cdot D_o \quad (8.3)$$

where,

$\delta$  : Amount of reduced clearance due to heat differential, **mm**

$\alpha$  : Bearing steel linear expansion coefficient  
 $12.5 \times 10^{-6}/^{\circ}\text{C}$

$\Delta T$ : Inner/outer ring temperature differential,  $^{\circ}\text{C}$

$D_o$ : Outer ring raceway diameter, **mm**

Outer ring raceway diameter,  $D_o$ , values can be approximated by using formula 8.4.

For ball bearings,

$$D_o = 0.20 (d + 4.0D) \dots\dots\dots (8.4)$$

where,

$d$  : Bearing bore diameter, **mm**

$D$  : Bearing outside diameter, **mm**

### 8.3 Bearing internal clearance selection standards

Theoretically, in regard to bearing life, the optimum operating internal clearance for any bearing would be a slight negative clearance after the bearing had reached normal operating temperature.

Unfortunately, under actual operating conditions, maintaining such optimum tolerances is often difficult at best. Due to various fluctuating operating conditions this slight minus clearance can quickly become a large minus, greatly lowering the life of the bearing and causing excessive heat to be generated. Therefore, an initial internal clearance which will result in a slightly greater than negative internal operating clearance should be selected.

Under normal operating conditions (e.g. normal load, fit, speed, temperature, etc.), a standard internal clearance will give a very satisfactory operating clearance.

Table 8.2 lists non-standard clearance recommendations for various applications and operating conditions.

**Table 8.2 Examples of applications where bearing clearances other than normal clearance are used**

| Operating conditions                            | Applications                          | Selected clearance |
|-------------------------------------------------|---------------------------------------|--------------------|
| Shaft is heated and housing is cooled.          | Conveyor of casting machine           | C5                 |
| Shaft or inner ring is heated.                  | Annealing pit, Drying pit, Curing pit | C4                 |
| Allows for shaft deflection and fitting errors. | Disc harrows                          | C4                 |
|                                                 | Combines                              | C3                 |
| Tight-fitted for both inner and outer rings.    | Large blowers                         | C3                 |
| To reduce noise and vibration when rotating.    | Multi-wing fan of air conditioners    | C2                 |

Table 8.3 (1) Cylindrical bore bearings

Unit:  $\mu\text{m}/0.0001\text{ inch}$

| Nominal bore diameter<br><i>d</i> |            | Radial internal clearance |         |         |         |         |         |         |         |         |         |
|-----------------------------------|------------|---------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                                   |            | C2                        |         | CN      |         | C3      |         | C4      |         | C5      |         |
| over                              | incl.      | min.                      | max.    | min.    | max.    | min.    | max.    | min.    | max.    | min.    | max.    |
| mm inch                           | mm inch    | mm inch                   | mm inch | mm inch | mm inch | mm inch | mm inch | mm inch | mm inch | mm inch | mm inch |
| 6 0.2362                          | 10 0.3937  | 0 0                       | 7 3     | 2 0.8   | 13 5    | 8 3     | 23 9    | 14 6    | 29 11   | 20 8    | 37 15   |
| 10 0.3937                         | 18 0.7087  | 0 0                       | 9 4     | 3 1     | 18 7    | 11 4    | 25 10   | 18 7    | 33 13   | 25 10   | 45 18   |
| 18 0.7087                         | 24 0.9449  | 0 0                       | 10 4    | 5 2     | 20 8    | 13 5    | 28 11   | 20 8    | 36 14   | 28 11   | 48 19   |
| 24 0.9449                         | 30 1.1811  | 1 0                       | 11 4    | 5 2     | 20 8    | 13 5    | 28 11   | 23 9    | 41 16   | 30 12   | 53 21   |
| 30 1.1811                         | 40 1.5748  | 1 0                       | 11 4    | 6 2     | 20 8    | 15 6    | 33 13   | 28 11   | 46 18   | 40 16   | 64 25   |
| 40 1.5748                         | 50 1.9685  | 1 0                       | 11 4    | 6 2     | 23 9    | 18 7    | 36 14   | 30 12   | 51 20   | 45 18   | 73 29   |
| 50 1.9685                         | 65 2.5591  | 1 0                       | 15 6    | 8 3     | 28 11   | 23 9    | 43 17   | 38 15   | 61 24   | 55 22   | 90 35   |
| 65 2.5591                         | 80 3.1496  | 1 0                       | 15 6    | 10 4    | 30 12   | 25 10   | 51 20   | 46 18   | 71 28   | 65 26   | 105 41  |
| 80 3.1496                         | 100 3.9370 | 1 0                       | 18 7    | 12 5    | 36 14   | 30 12   | 58 23   | 53 21   | 84 33   | 75 30   | 120 47  |
| 100 3.9370                        | 120 4.7244 | 2 1                       | 20 8    | 15 6    | 41 16   | 36 14   | 66 26   | 61 24   | 97 38   | 90 35   | 140 55  |
| 120 4.7244                        | 140 5.5118 | 2 1                       | 23 9    | 18 7    | 48 19   | 41 16   | 81 32   | 71 28   | 114 45  | 105 41  | 160 63  |

Note :Heat-resistant bearings with suffix HT2 have C4 clearances.

Table 8.3 (2) Tapered bore bearings

Unit:  $\mu\text{m}/0.0001\text{ inch}$

| Nominal bore diameter<br><i>d</i> |            | Radial internal clearance |         |         |         |         |         |         |         |         |         |
|-----------------------------------|------------|---------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                                   |            | C2                        |         | CN      |         | C3      |         | C4      |         |         |         |
| over                              | incl.      | min.                      | max.    | min.    | max.    | min.    | max.    | min.    | max.    |         |         |
| mm inch                           | mm inch    | mm inch                   | mm inch | mm inch | mm inch | mm inch | mm inch | mm inch | mm inch | mm inch | mm inch |
| 24 0.9449                         | 30 1.1811  | 5 2                       | 20 8    | 13 5    | 28 11   | 23 9    | 41 16   | 30 12   | 53 21   |         |         |
| 30 1.1811                         | 40 1.5748  | 6 2                       | 20 8    | 15 6    | 33 13   | 28 11   | 46 18   | 40 16   | 54 25   |         |         |
| 40 1.5748                         | 50 1.9685  | 6 2                       | 23 9    | 18 7    | 36 14   | 30 12   | 51 20   | 45 18   | 73 29   |         |         |
| 50 1.9685                         | 65 2.5591  | 8 3                       | 28 11   | 23 9    | 43 17   | 38 15   | 61 24   | 55 22   | 90 35   |         |         |
| 65 2.5591                         | 80 3.1496  | 10 4                      | 30 12   | 25 10   | 51 20   | 46 18   | 71 28   | 65 26   | 105 41  |         |         |
| 80 3.1496                         | 100 3.9370 | 12 5                      | 36 14   | 30 12   | 58 23   | 53 21   | 84 33   | 75 30   | 120 47  |         |         |
| 100 3.9370                        | 120 4.7244 | 15 6                      | 41 16   | 36 14   | 66 26   | 61 24   | 97 38   | 90 35   | 140 55  |         |         |
| 120 4.7244                        | 140 5.5118 | 18 7                      | 48 19   | 41 16   | 81 32   | 71 28   | 114 45  | 105 41  | 160 63  |         |         |

Note :Heat-resistant bearings with suffix HT2 have C4 clearances.

## 9. Allowable rotating speed

The allowable speed while ensuring the safety and long life of ball bearings used in the unit is limited by their size, the circumferential speed at the point where the seal comes into contact, and the load acting on them. To indicate the allowable speed, it is customary to use the value of  $dn$  or  $d_m n$  ( $d$ : bore diameter of the bearing;  $d_m$ : diameter of the pitch circle  $\doteq (I.D. + O.D.)/2$ ,  $n$ : number of revolutions).

Problems connected with the lubrication of bearings are the generation of heat and seizures occurring at the sliding parts inside the bearing, in particular at the points where the ball is in contact with the cage, inner ring and outer rings. The contact pressure at the points where friction occurs on the cage is only slightly affected by the load acting on the bearing; the amount of heat generated there is approximately in proportion to the sliding velocity. Therefore, this sliding velocity serves as a yardstick to measure the limit of the rotating speed of the bearing. In the case of a bearing unit, however, there is another large factor that has to be taken into account – the circumferential speed at the part where the seal is in contact.

The graph in Fig. 9.1 indicates the allowable speed, taking into account the aforementioned factors.

There are two common methods of locking the bearing unit onto the shaft – the set screw system and the eccentric color system. However, in both of these systems, high-speed operation will cause deformation of the inner ring, which may result in vibration of the bearing. For high-speed operation, therefore, it is recommended that an interference fit or a clearance fit with a near-zero clearance be used, with a shaft of the larger size as shown in Fig. 11.1 and Fig. 11.5. For standard bearing units with the contact type seal, the allowable speed is  $120,000/d$ . Where a higher speed is required, bearing units with the non-contact type seal, are recommended. Please contact **OID** regarding the use of the later type.

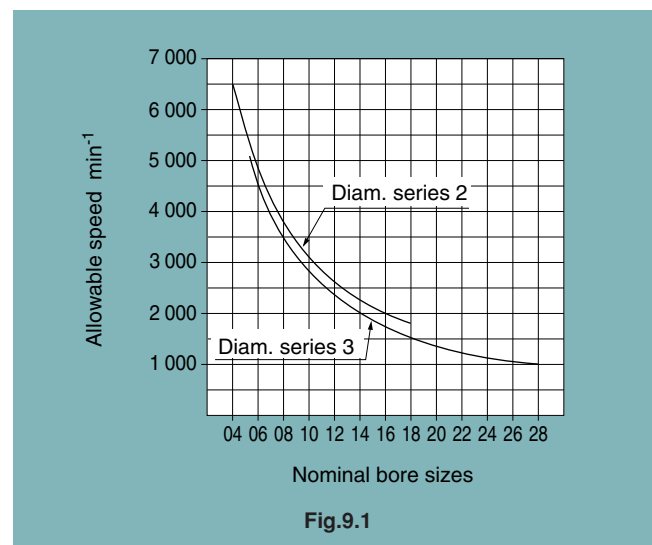


Fig.9.1

## 10. Lubrication

As bearings in **OID** bearing units have sufficient grease sealed-in at the time of manufacture, there is no need for replenishment while in use. The amount of grease necessary for lubrication is, in general, very small. With the **OID** bearing units, the amount of grease occupies about a half to a third of the space inside the bearing.

### 10.1 Life of grease

The life of grease is influenced by bearing type, dimensions, operating conditions, temperatures and conditions with or without ingress of dust, water and gas, and it is also greatly different depending on mineral oil of the raw material and soap base. Fig. 10.2 is a diagram to calculate the grease life of **OID** bearing units, which was prepared based on past results and experimental results at **OID** with a view to safety. It is applicable where the bearing operating conditions are normal, and if type and bore of the bearing, and ratio of allowable rotational speed to the actual rotational speed are known, the grease life can be calculated as an example. The grease life calculated in this manner is

not an absolute value but should be regarded as a certain guide including a large degree of safety. As the operating temperature is higher, the grease life becomes shorter obviously. Although it can not be simply described, the life obtained on Fig. 10.2 is an approximate value for the operating temperature range of -15°C to 100°C.

### 10.2 Replenishment of grease

#### 10.2.1 Sealed-in grease

**OID** bearing units feature superior sealing device and contain proper amount of lithium soap-based grease which, being suitable for long term use, is ideal for sealed-type bearings. Relubrication, therefore, is unnecessary under most operating conditions. At high temperatures, or where there is exposure to water or excessive dust, the highest quality grease is essential. Table 10.1 shows sealed-in grease brands for **OID** relubrication-type bearing units. Table 10.2 shows thermal solidification type grease brands. It is advisable to use **OID** recommendation grease brand when replenishing grease.

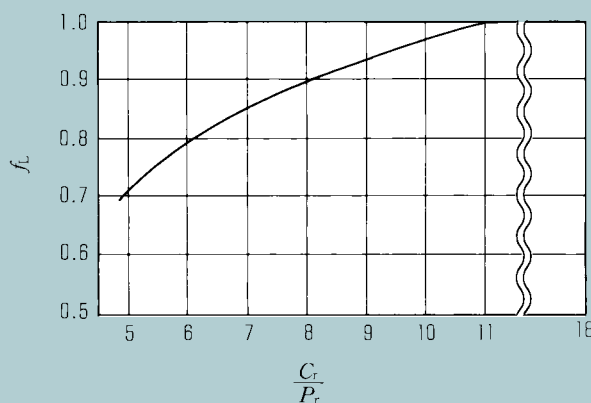


Fig. 10.1 Adjustment factor  $f_L$  for bearing load

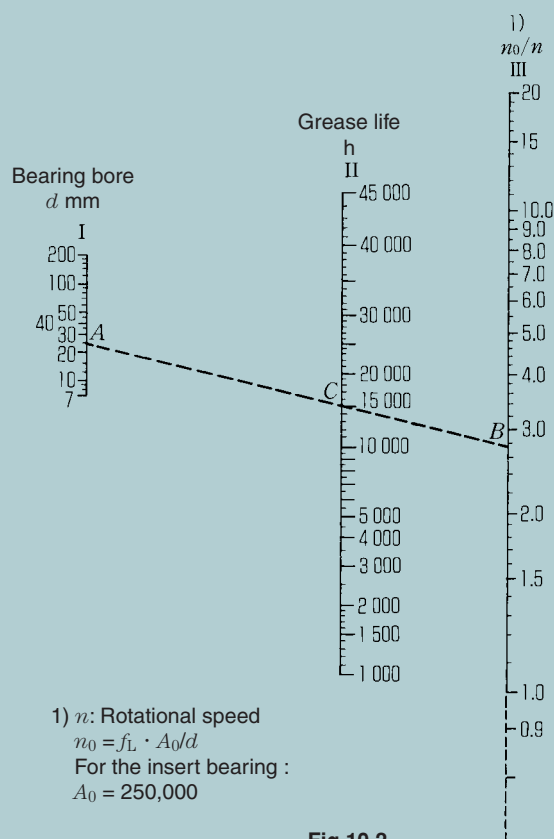


Fig. 10.2

#### Example)

Grease life of UCP205 for radial load 1,000N and rotational speed 3,600min<sup>-1</sup> is calculated as below;

At first, calculate  $n_0$ .

From Fig. 10.1,  $f_L = 1.00$  for  $C_r/P_r = 14,000/1,000 = 14$

$A_0 = 250,000$  for the insert bearing

Therefore,

$$n_0 = f_L \cdot A_0/d = 1.00 \times 250,000/25 = 10,000$$

$$n_0/n = 10,000/3,600 = 2.78$$

On Fig. 10.2, if the intersection point C was found connecting A for bearing bore  $d=25$  on vertical line I and B for  $n_0/n=2.78$  on vertical line III by a straight line, the grease life is 15,000 hrs.

Table 10.1 OID relubrication-type sealed-in grease

| Type of unit   | Sealed-in grease |             | Symbol | Operating temperature range °C |
|----------------|------------------|-------------|--------|--------------------------------|
|                | Thickening agent | Base oil    |        |                                |
| Standard       | Li soap          | Mineral oil | D1     | - 15 to + 100                  |
| Heat-resistant | Li soap          | Silicon oil | HT2D1  | - 40 to + 180                  |
| Cold-resistant | Li soap          | Silicon oil | CT1D1  | - 50 to + 120                  |

Note) As grease filled unit for food processing machine and fluorine series grease filled unit for heat-resistance are also available, please consult **OID**.

Table 10.2 Thermal solidification type grease (Polyube)

| Type of unit    | Symbol | Operating temperature range °C               |
|-----------------|--------|----------------------------------------------|
| General purpose | LP03   | - 20 to + 80 (Constant use: + 60°C and less) |

### 10.2.2 Mixing of different kinds of grease

Whether or not different kinds of grease may be mixed usually depends on their thickeners. The commonly used criteria are shown in Table 10.3. Properties which are most susceptible to influences from mixing are viscosity, dropping point and penetration. Water and heat resisting properties as well as mechanical stability are also lowered. Therefore, when mixing in a grease which is different to that which is already in use, it is essential that thickener (soap base) and the base oil be of the same group.

Table 10.3 Mixing properties of grease

| Soap base | Ca | Na | Al | Ba | Li |
|-----------|----|----|----|----|----|
| Ca        | ○  | △  | △  | ×  | △  |
| Na        | △  | ○  | △  | ×  | ×  |
| Al        | △  | △  | ○  | ×  | ×  |
| Ba        | ×  | ×  | ×  | ○  | ×  |
| Li        | △  | △  | ×  | ×  | ○  |

○ Mixing will varies depending on properties of both greases.

△ Mixing may produce considerable variations of properties.

× Mixing will cause a drastic change of properties.

### 10.2.3 Relubrication frequency

Relubrication frequency varies with the kind and quality of grease used as well as the operation conditions. Therefore, it is difficult to establish a general rule, but under ordinary operating conditions, it is desirable that grease be replenished before one third (1/3) of its calculated life elapses. It is necessary, however, to take into consideration such factors as hardening of grease in the oil hole, making replenishment impossible; deterioration of grease while operation of the machine is suspended, and so forth.

In Table 10.4 are shown standard relubrication frequencies. Irrespective of the calculated life of the grease, this list takes into consideration such factors as the rotational speed of the bearings, operating temperatures and environmental conditions, with a view to safety.

### 10.2.4 Re- greasing

The performance of a bearing is greatly influenced by the quantity of grease. In order to avoid over-filling, it is advisable to replenish the grease while the machine is in operation. Continue to insert grease until a little oozes out of from between the outer ring raceway and the periphery of the slinger, for optimum performance. Standard relubrication quantity is shown in Table 10.5. Relubrication pressure : 1- 3MPa {10 - 30kgf/cm<sup>2</sup>}

Table 10.5 Relubrication quantity

Unit g

| Bearing number |         | Quant. | Bearing number |  | Quant. |
|----------------|---------|--------|----------------|--|--------|
| UC201D1        |         | 1.1    | UC305D1        |  | 2.0    |
| UC202D1        |         | 1.1    | UC306D1        |  | 3.0    |
| UC203D1        |         | 1.1    | UC307D1        |  | 4.3    |
| UC204D1        |         | 1.1    | UC308D1        |  | 5.5    |
| UC205D1        |         | 1.3    | UC309D1        |  | 7.5    |
| UC206D1        | UCX05D1 | 1.9    | UC310D1        |  | 10.5   |
| UC207D1        | UCX06D1 | 2.7    | UC311D1        |  | 13     |
| UC208D1        | UCX07D1 | 3.5    | UC312D1        |  | 16.5   |
| UC209D1        | UCX08D1 | 4.1    | UC313D1        |  | 20     |
| UC210D1        | UCX09D1 | 4.6    | UC314D1        |  | 23.5   |
| UC211D1        | UCX10D1 | 6.0    | UC315D1        |  | 27.5   |
| UC212D1        | UCX11D1 | 8.5    | UC316D1        |  | 33     |
| UC213D1        | UCX12D1 | 10.5   | UC317D1        |  | 38     |
| UC214D1        | UCX13D1 | 12     | UC318D1        |  | 45     |
| UC215D1        | UCX14D1 | 13     | UC319D1        |  | 50     |
| UC216D1        | UCX15D1 | 15.5   | UC320D1        |  | 60     |
| UC217D1        | UCX16D1 | 16.5   | UC321D1        |  | 70     |
| UC218D1        | UCX17D1 | 21     | UC322D1        |  | 85     |
|                | UCX18D1 | 22.5   | UC324D1        |  | 100    |
|                | UCX20D1 | 35.5   | UC326D1        |  | 125    |
|                |         |        | UC328D1        |  | 150    |

Note) Relubrication quantity of UK, UEL type is same as UC type

Table 10.4 Standard relubrication frequencies

| Type of bearing | Symbol | dn Value   | Environmental conditions  | Operating temperature °C | Relubrication interval |                |
|-----------------|--------|------------|---------------------------|--------------------------|------------------------|----------------|
|                 |        |            |                           |                          | Hours                  | Period         |
| Standard        | D1     | 40 000 max | Ordinary                  | -15 to +80               | 1 500 to 3 000         | 6 to 12 mon.   |
| Standard        | D1     | 70 000 max | Ordinary                  | -15 to +80               | 1 000 to 2 000         | 3 to 6 mon.    |
| Standard        | D1     | 70 000 max | Ordinary                  | +80 to +100              | 500 to 700             | 1 mo.          |
| Heat-resistant  | HT2D1  | 70 000 max | Ordinary                  | +100 to +150             | 300 to 700             | 1 mo.          |
| Heat-resistant  | HT2D1  | 70 000 max | Ordinary                  | +150 to +180             | 100                    | 1 wk.          |
| Cold-resistant  | CT1D1  | 70 000 max | Ordinary                  | -50 to +120              | 1 000 to 2 000         | 3 to 6 mo.     |
| Standard        | D1     | 70 000 max | Very dusty                | -15 to +100              | 100 to 500             | 1 wk. to 1 mo. |
| Standard        | D1     | 70 000 max | Exposed to water splashes | -15 to +100              | 30 to 100              | 1 day to 1 wk. |

### 10.3 Grease fitting

**OID** bearing units are, as a general rule, provided with a grease fitting, as shown in Table 10.6, and a grease gun is used for regreasing. However, housing with pipe tapered thread for centralized greasing use as well as button-head and pin types are also available on demand.

**Table 10.6 Grease fitting types available for bearing units**

| Types of housing | <b>OID</b> standard grease fitting types |
|------------------|------------------------------------------|
| Pillow type      | GA type                                  |
| Flange type      | GA type                                  |
| Take-up type     | GB type                                  |
| Hanger type      | GA type                                  |
| Cartridge type   | GA type                                  |

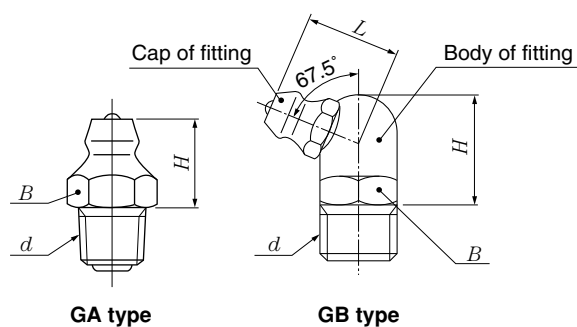


**Table 10.7 Grease fitting dimensions** GA type (Vertical type)

| OID Designation           | $d$                   | $H$ |       | $B$ |       |
|---------------------------|-----------------------|-----|-------|-----|-------|
|                           |                       | mm  | inch  | mm  | inch  |
| GA- $\frac{1}{4}$ -28 UNF | $\frac{1}{4}$ -28 UNF | 8.5 | 0.335 | 7   | 0.276 |
| GA-PF $\frac{1}{8}$       | G $\frac{1}{8}$       | 12  | 0.472 | 10  | 0.394 |
| GA-PF $\frac{1}{4}$       | G $\frac{1}{4}$       | 14  | 0.551 | 14  | 0.551 |

GB type (67.5°)

| OID Designation           | $d$                   | $H$  |       | $L$  |       | $B$ |       |
|---------------------------|-----------------------|------|-------|------|-------|-----|-------|
|                           |                       | mm   | inch  | mm   | inch  | mm  | inch  |
| GB- $\frac{1}{4}$ -28 UNF | $\frac{1}{4}$ -28 UNF | 10.5 | 0.413 | 9.3  | 0.366 | 8   | 0.315 |
| GB-PF $\frac{1}{8}$       | G $\frac{1}{8}$       | 14.2 | 0.559 | 13.5 | 0.531 | 10  | 0.394 |
| GB-PF $\frac{1}{4}$       | G $\frac{1}{4}$       | 15   | 0.591 | 13.5 | 0.531 | 14  | 0.551 |

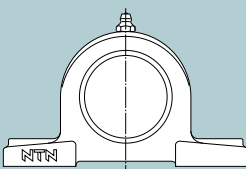
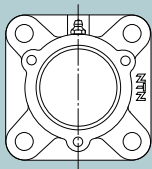
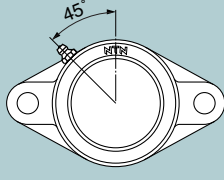
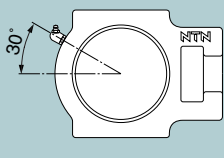
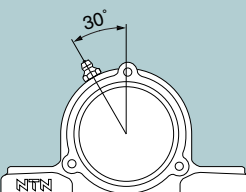
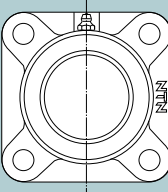
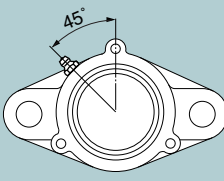
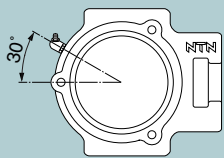
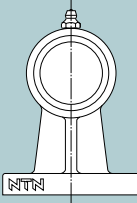
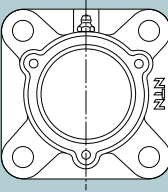
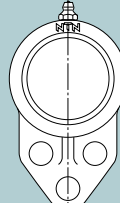
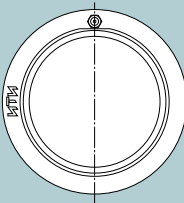
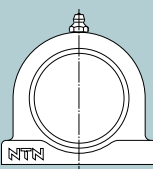
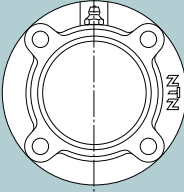
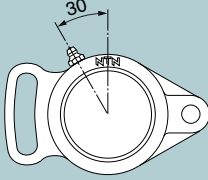
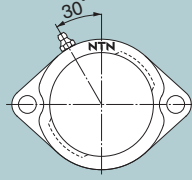
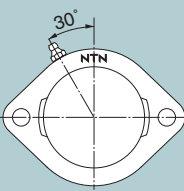
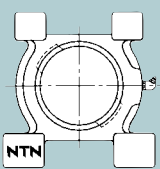
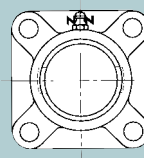
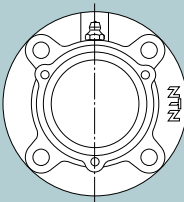
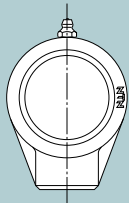
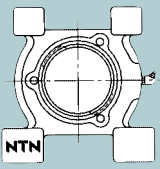
**Table 10.8 Housing series and nominal screw size of grease fitting**

| Nominal screw size $d$ | Series 2 | Series X | Series 3 |
|------------------------|----------|----------|----------|
| $\frac{1}{4}$ -28 UNF  | 203-209  | X05-X08  | 305-309  |
| G $\frac{1}{8}$        | 210-215  | X09-X14  | 310-315  |
| G $\frac{1}{4}$        | 216-218  | X15-X20  | 316-328  |

Note: Screw size for the cartridge type is  $\frac{1}{4}$  - 28 UNF.  
That for C310D1 to C328D1 is G  $\frac{1}{8}$  (PF  $\frac{1}{8}$ ).

#### 10.4 Standard location of the grease fitting

Standard location of grease fitting on the housing for the relubricatable bearing units of each type is illustrated below.

|                                                                                     |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|    |    |                                                                                                                                                                                                                                                                                                        |    |
| P, PL, PX, S-P, type                                                                | C-F type                                                                            | FL, FLU, FLX, S-FL type                                                                                                                                                                                                                                                                                                                                                                  | T, TX, S-T type                                                                       |
|    |    |                                                                                                                                                                                                                                                                                                        |    |
| C-P type                                                                            | F, FU, S-F (#204, #205)                                                             | C-FL type                                                                                                                                                                                                                                                                                                                                                                                | C-T type                                                                              |
|  |  |                                                                                                                                                                                                                                                                                                      |  |
| HP type                                                                             | C-FS type                                                                           | FH type                                                                                                                                                                                                                                                                                                                                                                                  | C, CX type                                                                            |
|  |  |                                                                                                                                                                                                                                                                                                      |  |
| UP type                                                                             | FC, FCX, S-FC type                                                                  | FA type                                                                                                                                                                                                                                                                                                                                                                                  | FB type                                                                               |
|  |  |                                                                                                                                                                                                                                                                                                      |  |
| FD type                                                                             | M, L, S-M, S-L type                                                                 | F, FU, FX, S-F type<br>Except (#204, #205)                                                                                                                                                                                                                                                                                                                                               | C-FC type                                                                             |
|  |  | <p>Note 1: Standard grease fitting type is GA. Item marked ※, however, have GB type as standard.</p> <p>2: IPG, PE, PG, PM, PB and PR type are categorized as P type.</p> <p>3: FM, FE, FLG and FLR type are categorized as FL type.</p> <p>4: FG and FSG type are categorized as FS type.</p> <p>5: FCG type is categorized as FC type.</p> <p>6: TG type is categorized as T type.</p> |                                                                                       |
| HB type                                                                             | C-M, C-L type                                                                       |                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                       |

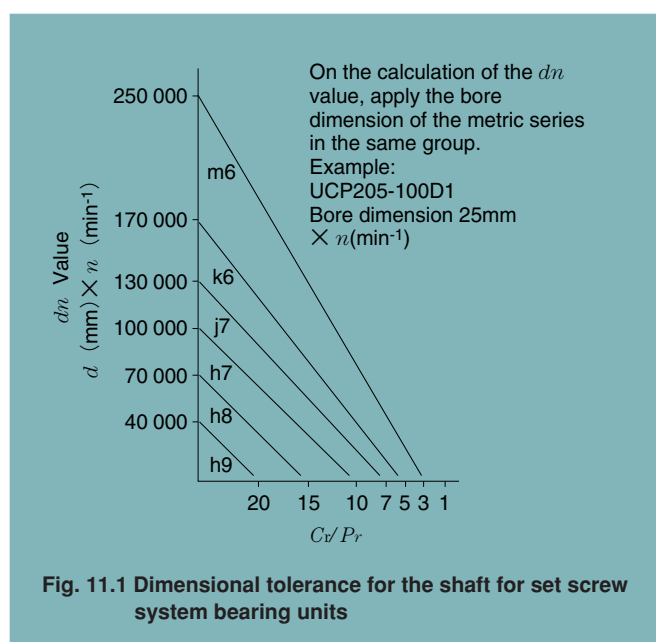


## 11. Shaft Designs

Although the shafts used for **OID** bearing units require no particularly high standards of accuracy, it is desirable that, as far as possible, they be free from bends and flaws.

### 11.1 Set screw system bearing units

With set screw system bearing units, under normal operating conditions the inner ring is usually fitted onto the shaft by means of a clearance fit to ensure convenience of assembly. In this case the values shown in Fig. 11.1 are appropriate dimensional tolerances for the shaft.



### Step shafts

Wherever there is a noticeably large axial load, a step shaft, as shown in Fig. 11.2, should, if practical, be used.

For bearing units with covers, it is recommended that the units shown in Table 11.1 be used with shafts of the corresponding diameters, as shown in the same table.

The values of the radii of the rounded corners of these shafts are shown in Table 11.2.

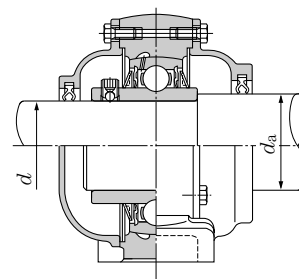
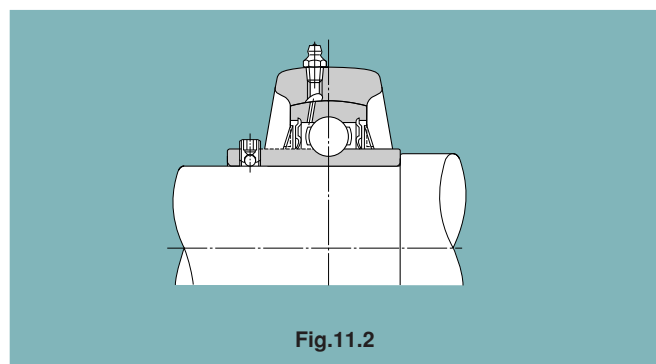


**Table 11.1 Bearing units with covers (for use with step shafts) and shaft diameters**

A) Metric series

| Designation of units     |                          | $d_a$ mm |
|--------------------------|--------------------------|----------|
| 10C-UCP206 to 10C-UCP218 | 10C-UCT208 to 10C-UCT217 | $d+10$   |
| 10C-UCP305 to 10C-UCP311 | 10C-UCT305 to 10C-UCT311 | $d+10$   |
| 15C-UCP312 to 15C-UCP324 | 15C-UCT312 to 15C-UCT324 | $d+15$   |
| 20C-UCP326 to 20C-UCP328 | 20C-UCT326 to 20C-UCT328 | $d+20$   |

Remarks : Designation of bearing units with blind covers.  
Example : 10CM-UCP206D1

B) Inch series

| Designation of units | $d_a$ inch     | Designation of units | $d_a$ inch     |
|----------------------|----------------|----------------------|----------------|
| ZnC---206---         | $1\frac{1}{2}$ | ZnC---305---         | $1\frac{3}{8}$ |
| ZnC---207---         | $1\frac{3}{4}$ | ZnC---306---         | $1\frac{1}{2}$ |
| ZnC---208---         | $1\frac{7}{8}$ | ZnC---307---         | $1\frac{3}{4}$ |
| ZnC---209---         | 2              | ZnC---308---         | $1\frac{7}{8}$ |
| ZnC---210---         | $2\frac{3}{8}$ | ZnC---309---         | $2\frac{1}{8}$ |
| ZnC---211---         | $2\frac{1}{2}$ | ZnC---310---         | $2\frac{3}{8}$ |
| ZnC---212---         | $2\frac{3}{4}$ | ZnC---311---         | $2\frac{3}{4}$ |
| ZnC---213---         | 3              | ZnC---312---         | 3              |
| ZnC---214---         | $3\frac{1}{8}$ | ZnC---313---         | $3\frac{1}{8}$ |
| ZnC---215---         | $3\frac{3}{8}$ | ZnC---314---         | $3\frac{1}{4}$ |
| ZnC---216---         | $3\frac{1}{2}$ | ZnC---315---         | $3\frac{1}{2}$ |
| ZnC---217---         | $3\frac{3}{4}$ | ZnC---316---         | $3\frac{3}{4}$ |
| ZnC---218---         | 4              | ZnC---317---         | 4              |
|                      |                | ZnC---318---         | 4              |

Note :Designations for all units differ from the normal numbering system.

Example 1 Pillow type : ZnC-UCP206-101D1

ZnCM-UCP206-101D1

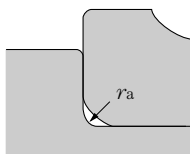
Example 2 Flange type : ZnC-UCF206-101D1

ZnC-UCFL206-101D1

Example 3 Take-up type : ZnC-UCT206-101D1

ZnCM-UCT206-101D1

$n$  indicates serial number in designing from 1 onward.


**Table 11.2 Radii of the round corners of step shafts**

| Designation of bearings | $r'_{as}$ max.<br>mm inch | Designation of bearings | $r'_{as}$ max.<br>mm inch |
|-------------------------|---------------------------|-------------------------|---------------------------|
| UC201 to UC203          | 0.6 0.024                 | UC305 to UC306          | 1.5 0.059                 |
| UC204 to UC206          | 1 0.039                   | UC307 to UC309          | 2 0.079                   |
| UC207 to UC210          | 1.5 0.059                 | UC310 to UC311          | 2.5 0.098                 |
| UC211 to UC215          | 2 0.079                   | UC312 to UC316          | 2.5 0.098                 |
| UC216 to UC218          | 2.5 0.098                 | UC317 to UC324          | 3 0.118                   |
|                         |                           | UC326 to UC328          | 4 0.157                   |

### Relief in the axial direction

Where several bearing units are fitted on the shaft, or where there is a great distance between two bearing units, one of the bearings is secured to the shaft as the "fixed-side bearing" and is subjected to both the axial and radial loads. The other is mounted on the shaft as the "free-side bearing" and is subjected only to radial load, compensating for expansion of the shaft due to a rise in temperature or for any errors in the distance between bearings that may have occurred during assembly.

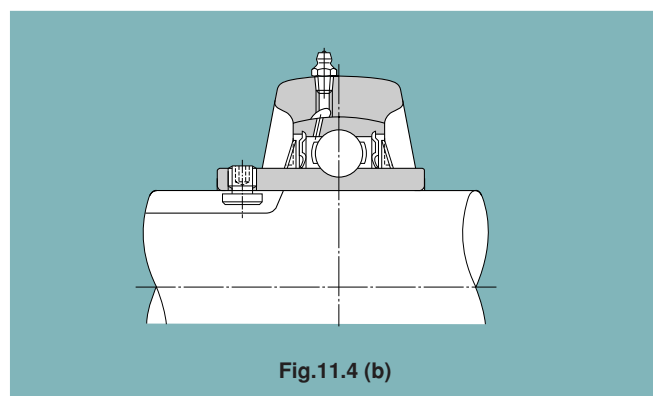
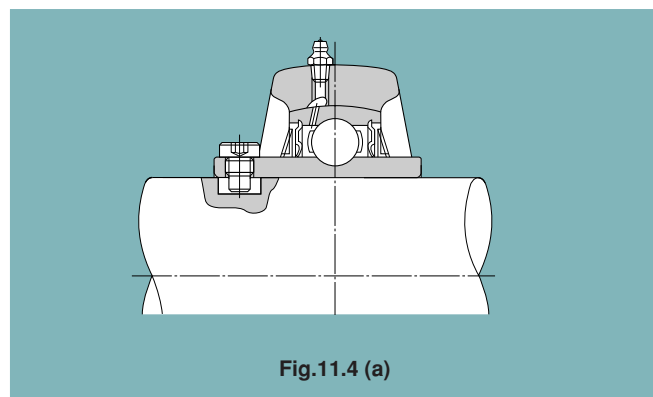
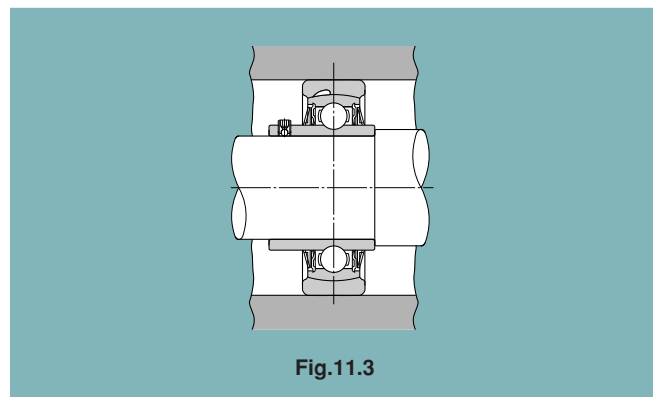
If there is no free-side bearing, the bearings will be subjected to an abnormal axial load, which could cause premature breakdown.

Although it is desirable to use a cartridge-type bearing unit for the above purpose (Fig. 11.3), the following method is often employed. As illustrated in Fig. 11.4 (a) and (b), a key way is cut in the shaft, to accommodate a special set screw.

However, when the shaft speed is high, the dog point set screw may wear because of intensive vibration caused by the clearance between the bearing bore and the shaft. For this reason the dog point set screw is not suitable for blower type and similar applications. Please consult with **OID** for alternatives.

It is not suitable for applications such as blowers, please consult with **OID**.

When relief is provided in the axial direction by the use of screwed bolts as above, the dimensional relationships applicable are as shown in Tables 11.3 (a) and 11.3 (b) on the following pages.



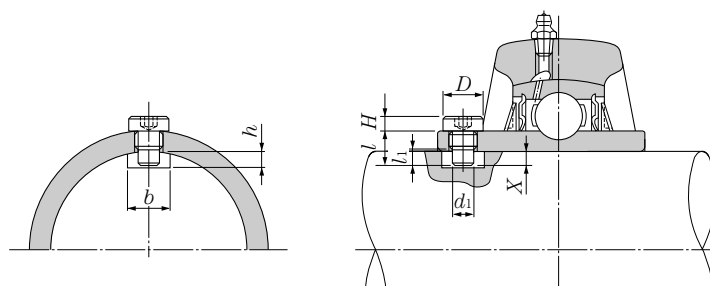
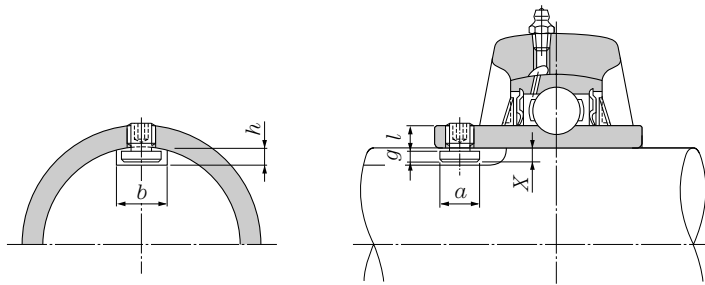


**Table 11.3 (a) Screwed bolt system**

A) Metric series, applied to metric bore size.

| Designation of bearings | Key way         |                 | Designation and size of bolts | $d_1$<br>mm | $X$<br>mm | $l$<br>mm | $l_1$<br>mm | $D$<br>mm | $H$<br>mm |
|-------------------------|-----------------|-----------------|-------------------------------|-------------|-----------|-----------|-------------|-----------|-----------|
|                         | Width $b$<br>mm | Depth $h$<br>mm |                               |             |           |           |             |           |           |
| UC201D1W5               | 3.5             | 3               | S5W5×0.8×11                   | 3.5         | 2.2       | 11        | 5           | 6         | 3         |
| UC202D1W5               | 3.5             | 4.5             | S5W5×0.8×11                   | 3.5         | 3.7       | 11        | 5           | 6         | 3         |
| UC203D1W5               | 3.5             | 5.5             | S5W5×0.8×11                   | 3.5         | 4.7       | 11        | 5           | 6         | 3         |
| UC204D1W5               | 3.5             | 4.5             | S5W5×0.8×8.5                  | 3.5         | 3.7       | 8.5       | 5           | 6         | 3         |
| UC205D1W5               | 3.5             | 5               | S5W5×0.8×8.5                  | 3.5         | 4.1       | 8.5       | 5           | 6         | 3         |
| UC206D1W5               | 4               | 5.5             | S5W6×0.75×10                  | 4           | 4.6       | 10        | 5.9         | 8         | 3         |
| UC207D1W5               | 4               | 5               | S5W6×0.75×10                  | 4           | 4.1       | 10        | 5.9         | 8         | 3         |
| UC208D1W5               | 6               | 5.5             | S5W8×1×11.5                   | 6           | 5         | 11.5      | 5.5         | 10        | 3         |
| UC209D1W5               | 6               | 6               | S5W8×1×11.5                   | 6           | 5.3       | 11.5      | 5.5         | 10        | 3         |
| UC210D1W5               | 6               | 6               | S5W8×1×11.5                   | 6           | 5.3       | 11.5      | 5.5         | 10        | 3         |
| UC211D1W5               | 6               | 5               | S5W8×1×11.5                   | 6           | 4.5       | 11.5      | 5.5         | 10        | 3         |
| UC212D1W5               | 7               | 5.5             | S5W10×1.25×13.5               | 7           | 5         | 13.5      | 6.5         | 12        | 3         |
| UC213D1W5               | 7               | 5.5             | S5W10×1.25×13.5               | 7           | 4.8       | 13.5      | 6.5         | 12        | 3         |
| UC214D1W5               | 7               | 5.5             | S5W10×1.25×13.5               | 7           | 5         | 13.5      | 6.5         | 12        | 3         |
| UC215D1W5               | 7               | 5               | S5W10×1.25×13.5               | 7           | 4.5       | 13.5      | 6.5         | 12        | 3         |
| UC216D1W5               | 7               | 6.5             | S5W10×1.25×15                 | 7           | 6         | 15        | 7           | 12        | 3         |
| UC217D1W5               | 9               | 6.5             | S5W12×1.5×16.5                | 9           | 5.8       | 16.5      | 7           | 14        | 4         |
| UC218D1W5               | 9               | 6.5             | S5W12×1.5×16.5                | 9           | 5.7       | 16.5      | 7           | 14        | 4         |
| UC305D1W5               | 4               | 6.5             | S5W6×0.75×11.5                | 4           | 5.6       | 11.5      | 6           | 8         | 3         |
| UC306D1W5               | 4               | 5               | S5W6×0.75×11.5                | 4           | 4.1       | 11.5      | 6           | 8         | 3         |
| UC307D1W5               | 6               | 5               | S5W8×1×11.5                   | 6           | 4.3       | 11.5      | 5.5         | 10        | 3         |
| UC308D1W5               | 7               | 6               | S5W10×1.25×13.5               | 7           | 5.5       | 13.5      | 6.5         | 12        | 3         |
| UC309D1W5               | 7               | 6.5             | S5W10×1.25×15                 | 7           | 5.8       | 15        | 7           | 12        | 3         |
| UC310D1W5               | 9               | 7               | S5W12×1.5×16.5                | 9           | 6.2       | 16.5      | 7           | 14        | 4         |
| UC311D1W5               | 9               | 6.5             | S5W12×1.5×16.5                | 9           | 5.7       | 16.5      | 7           | 14        | 4         |
| UC312D1W5               | 9               | 6               | S5W12×1.5×16.5                | 9           | 5.2       | 16.5      | 7           | 14        | 4         |
| UC313D1W5               | 9               | 7               | S5W12×1.5×18                  | 9           | 6.4       | 18        | 7.5         | 14        | 4         |
| UC314D1W5               | 9               | 6.5             | S5W12×1.5×18                  | 9           | 5.6       | 18        | 7.5         | 14        | 4         |
| UC315D1W5               | 10              | 7.5             | S5W14×1.5×20                  | 10          | 6.9       | 20        | 8.5         | 17        | 5         |
| UC316D1W5               | 10              | 7               | S5W14×1.5×20                  | 10          | 6.1       | 20        | 8.5         | 17        | 5         |
| UC317D1W5               | 12              | 9               | S5W16×1.5×23                  | 12          | 8.3       | 23        | 9           | 19        | 6         |
| UC318D1W5               | 12              | 8.5             | S5W16×1.5×23                  | 12          | 7.6       | 23        | 9           | 19        | 6         |
| UC319D1W5               | 12              | 7.5             | S5W16×1.5×23                  | 12          | 6.8       | 23        | 9           | 19        | 6         |
| UC320D1W5               | 14              | 8               | S5W18×1.5×25                  | 14          | 7.2       | 25        | 9.5         | 22        | 7         |
| UC321D1W5               | 14              | 7               | S5W18×1.5×25                  | 14          | 6.5       | 25        | 9.5         | 22        | 7         |
| UC322D1W5               | 14              | 9               | S5W18×1.5×29                  | 14          | 8.2       | 29        | 10          | 22        | 7         |
| UC324D1W5               | 14              | 7               | S5W18×1.5×29                  | 14          | 6.4       | 29        | 10          | 22        | 7         |
| UC326D1W5               | 16              | 9.5             | S5W20×1.5×33                  | 16          | 8.9       | 33        | 11          | 24        | 7         |
| UC328D1W5               | 16              | 8.5             | S5W20×1.5×33                  | 16          | 7.8       | 33        | 11          | 24        | 7         |

Remarks: The tolerance for the width ( $b$ ) of the key way should preferably be set at the range of 0 to +0.2 mm.

**Table 11.3 (b) Key bolt system**

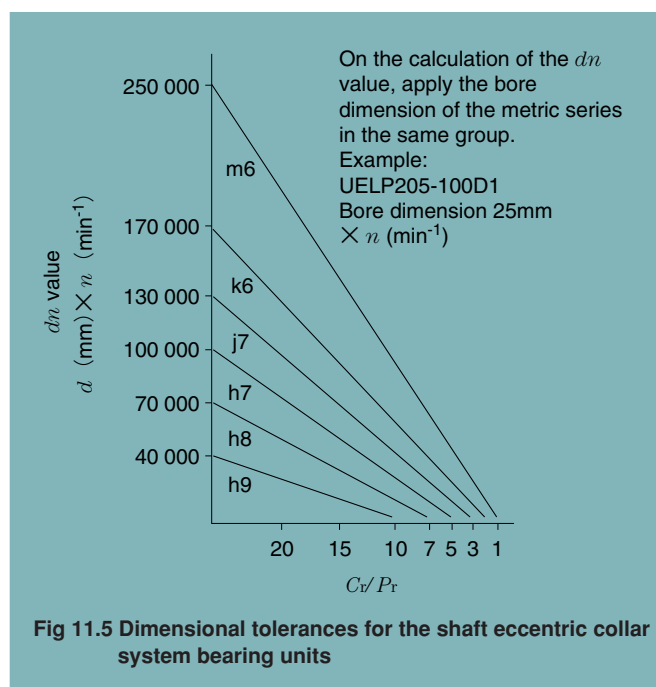
A) Metric series, applied to metric bore size.

| Designation of bearings | Key way              |                      | Designation and size of bolts | <i>a</i><br>mm | <i>X</i><br>mm | <i>g</i><br>mm | <i>l</i><br>mm |
|-------------------------|----------------------|----------------------|-------------------------------|----------------|----------------|----------------|----------------|
|                         | Width <i>b</i><br>mm | Depth <i>h</i><br>mm |                               |                |                |                |                |
| UC201D1W6               | 6                    | 4.5                  | S6W5×0.8×5-1                  | 5.9            | 3.8            | 3              | 6              |
| UC202D1W6               | 6                    | 4.5                  | S6W5×0.8×5-1                  | 5.9            | 3.6            | 3              | 6              |
| UC203D1W6               | 6                    | 4.5                  | S6W5×0.8×5-1                  | 5.9            | 3.5            | 3              | 6              |
| UC204D1W6               | 7                    | 4.5                  | S6W5×0.8×5                    | 6.9            | 3.8            | 3.2            | 6              |
| UC205D1W6               | 7                    | 4.5                  | S6W5×0.8×5                    | 6.9            | 3.7            | 3.2            | 6              |
| UC206D1W6               | 8                    | 4.5                  | S6W6×0.75×6                   | 7.9            | 3.7            | 3.2            | 7              |
| UC207D1W6               | 8                    | 4.5                  | S6W6×0.75×6                   | 7.9            | 3.7            | 3.2            | 7              |
| UC208D1W6               | 10                   | 5                    | S6W8×1×7                      | 9.9            | 4.2            | 3.6            | 8              |
| UC209D1W6               | 10                   | 5                    | S6W8×1×7                      | 9.9            | 4.2            | 3.6            | 8              |
| UC210D1W6               | 10                   | 5                    | S6W8×1×7                      | 9.9            | 4.1            | 3.6            | 8              |
| UC211D1W6               | 10                   | 5                    | S6W8×1×7                      | 9.9            | 4              | 3.6            | 8              |
| UC212D1W6               | 12                   | 5.5                  | S6W10×1.25×9                  | 11.9           | 4.6            | 4              | 10             |
| UC213D1W6               | 12                   | 5.5                  | S6W10×1.25×9                  | 11.9           | 4.5            | 4              | 10             |
| UC214D1W6               | 12                   | 5.5                  | S6W10×1.25×9                  | 11.9           | 4.5            | 4              | 10             |
| UC215D1W6               | 12                   | 5.5                  | S6W10×1.25×9                  | 11.9           | 4.5            | 4              | 10             |
| UC216D1W6               | 12                   | 5.5                  | S6W10×1.25×9                  | 11.9           | 4.4            | 4              | 10             |
| UC217D1W6               | 14                   | 6                    | S6W12×1.5×11                  | 13.9           | 5.4            | 4.8            | 12             |
| UC218D1W6               | 14                   | 6                    | S6W12×1.5×11                  | 13.9           | 5.3            | 4.8            | 12             |
| UC305D1W6               | 8                    | 4.5                  | S6W6×0.75×6                   | 7.9            | 3.8            | 3.2            | 7              |
| UC306D1W6               | 8                    | 4.5                  | S6W6×0.75×6                   | 7.9            | 3.7            | 3.2            | 7              |
| UC307D1W6               | 10                   | 5                    | S6W8×1×7                      | 9.9            | 4.3            | 3.6            | 8              |
| UC308D1W6               | 12                   | 5.5                  | S6W10×1.25×9                  | 11.9           | 4.9            | 4              | 10             |
| UC309D1W6               | 12                   | 5.5                  | S6W10×1.25×9                  | 11.9           | 4.8            | 4              | 10             |
| UC310D1W6               | 14                   | 6.5                  | S6W12×1.5×11                  | 13.9           | 5.8            | 4.8            | 12             |
| UC311D1W6               | 14                   | 6.5                  | S6W12×1.5×11                  | 13.9           | 5.7            | 4.8            | 12             |
| UC312D1W6               | 14                   | 6.5                  | S6W12×1.5×11                  | 13.9           | 5.6            | 4.8            | 12             |
| UC313D1W6               | 14                   | 6.5                  | S6W12×1.5×11                  | 13.9           | 5.6            | 4.8            | 12             |
| UC314D1W6               | 14                   | 6.5                  | S6W12×1.5×11                  | 13.9           | 5.5            | 4.8            | 12             |
| UC315D1W6               | 16                   | 7.5                  | S6W14×1.5×13                  | 15.9           | 6.7            | 5.8            | 14             |
| UC316D1W6               | 16                   | 7.5                  | S6W14×1.5×13                  | 15.9           | 6.6            | 5.8            | 14             |
| UC317D1W6               | 18                   | 8.5                  | S6W16×1.5×16                  | 17.9           | 7.5            | 6.5            | 17             |
| UC318D1W6               | 18                   | 8                    | S6W16×1.5×16                  | 17.9           | 7.4            | 6.5            | 17             |
| UC319D1W6               | 18                   | 8                    | S6W16×1.5×16                  | 17.9           | 7.4            | 6.5            | 17             |
| UC320D1W6               | 20                   | 10.5                 | S6W18×1.5×18                  | 19.9           | 9.5            | 8.5            | 19             |
| UC321D1W6               | 20                   | 10.5                 | S6W18×1.5×18                  | 19.9           | 9.5            | 8.5            | 19             |
| UC322D1W6               | 20                   | 10                   | S6W18×1.5×18                  | 19.9           | 9.4            | 8.5            | 19             |
| UC324D1W6               | 20                   | 10                   | S6W18×1.5×18                  | 19.9           | 9.3            | 8.5            | 19             |
| UC326D1W6               | 22                   | 11                   | S6W20×1.5×25                  | 21.9           | 10.4           | 9.5            | 26             |
| UC328D1W6               | 22                   | 11                   | S6W20×1.5×25                  | 21.9           | 10.4           | 9.5            | 26             |

Note: The tolerance for the width (*b*) of the key way should preferably be set at the range of 0 to +0.2 mm.

## 11.2 Eccentric collar system

As in the case of the set screw system, it is usual under normal operating conditions to fit the inner ring onto the shaft by means of a clearance fit, for ease of assembly. Fig. 11.5 shows the appropriate values of dimensional tolerances for the shaft.



## 11.3 Adapter system bearing units

Since in the case of the adapter system, the bearing unit is fastened onto the shaft by means of a sleeve, for dimensional tolerances for the shaft, h9 is applicable under all operating conditions.

Note that it is not usable under a loose fit  $\geq$  h9.

## 11.4 Mounting method of Take-up type unit

For the guide rail, adjusting bolt and nut of Take-up type unit, dimensions and machining accuracies indicated in Table 11.4 are appropriate values.

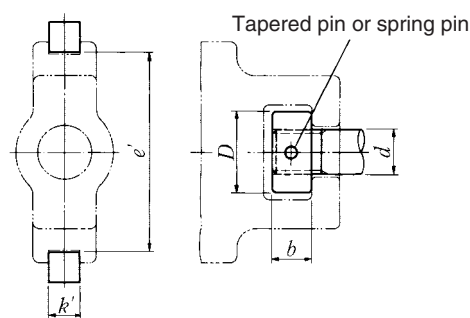


Table 11.4 Dimensions of guide rail, and bolt & nut

Unit: mm

| Designation       | Dimension and tolerance of guide rail |                                           |      | Dimension of adjusting bolt & nut |     |     | Designation | Dimension and tolerance of guide rail |                                           |      | Dimension of adjusting bolt & nut |     |     |
|-------------------|---------------------------------------|-------------------------------------------|------|-----------------------------------|-----|-----|-------------|---------------------------------------|-------------------------------------------|------|-----------------------------------|-----|-----|
|                   | $e'$                                  |                                           | $k'$ | $d$                               | $D$ | $b$ |             | $e'$                                  |                                           | $k'$ | $d$                               | $D$ | $b$ |
|                   | Dimension                             | Tolerance                                 |      |                                   |     |     |             | Dimension                             | Tolerance                                 |      |                                   |     |     |
| UCT201~<br>UCT204 | 76.5                                  | $\begin{Bmatrix} +0.5 \\ 0 \end{Bmatrix}$ | 11   | 16                                | 28  | 12  | UCT305      | 80.5                                  | $\begin{Bmatrix} +0.5 \\ 0 \end{Bmatrix}$ | 11   | 22                                | 32  | 12  |
| UCT205            | 76.5                                  | $\begin{Bmatrix} +0.5 \\ 0 \end{Bmatrix}$ | 11   | 16                                | 28  | 12  | UCT306      | 90.5                                  | $\begin{Bmatrix} +0.5 \\ 0 \end{Bmatrix}$ | 15   | 24                                | 36  | 14  |
| UCT206            | 89.5                                  | $\begin{Bmatrix} +0.5 \\ 0 \end{Bmatrix}$ | 11   | 18                                | 32  | 12  | UCT307      | 100.5                                 | $\begin{Bmatrix} +0.5 \\ 0 \end{Bmatrix}$ | 15   | 26                                | 40  | 14  |
| UCT207            | 89.5                                  | $\begin{Bmatrix} +0.5 \\ 0 \end{Bmatrix}$ | 11   | 18                                | 32  | 12  | UCT308      | 112.5                                 | $\begin{Bmatrix} +0.5 \\ 0 \end{Bmatrix}$ | 17   | 28                                | 45  | 16  |
| UCT208            | 102.5                                 | $\begin{Bmatrix} +0.5 \\ 0 \end{Bmatrix}$ | 15   | 25                                | 42  | 14  | UCT309      | 125.5                                 | $\begin{Bmatrix} +0.5 \\ 0 \end{Bmatrix}$ | 17   | 30                                | 50  | 18  |
| UCT209            | 102.5                                 | $\begin{Bmatrix} +0.5 \\ 0 \end{Bmatrix}$ | 15   | 25                                | 42  | 14  | UCT310      | 140.5                                 | $\begin{Bmatrix} +0.5 \\ 0 \end{Bmatrix}$ | 19   | 32                                | 55  | 20  |
| UCT210            | 102.5                                 | $\begin{Bmatrix} +0.5 \\ 0 \end{Bmatrix}$ | 15   | 25                                | 42  | 14  | UCT311      | 150.5                                 | $\begin{Bmatrix} +0.8 \\ 0 \end{Bmatrix}$ | 20   | 34                                | 60  | 22  |
| UCT211            | 130.5                                 | $\begin{Bmatrix} +0.8 \\ 0 \end{Bmatrix}$ | 20   | 30                                | 55  | 20  | UCT312      | 160.5                                 | $\begin{Bmatrix} +0.8 \\ 0 \end{Bmatrix}$ | 20   | 36                                | 65  | 24  |
| UCT212            | 130.5                                 | $\begin{Bmatrix} +0.8 \\ 0 \end{Bmatrix}$ | 20   | 30                                | 55  | 26  | UCT313      | 170.5                                 | $\begin{Bmatrix} +0.8 \\ 0 \end{Bmatrix}$ | 24   | 38                                | 65  | 26  |
| UCT213            | 151.5                                 | $\begin{Bmatrix} +0.8 \\ 0 \end{Bmatrix}$ | 24   | 36                                | 60  | 26  | UCT314      | 180.5                                 | $\begin{Bmatrix} +0.8 \\ 0 \end{Bmatrix}$ | 24   | 40                                | 70  | 28  |
| UCT214            | 151.5                                 | $\begin{Bmatrix} +0.8 \\ 0 \end{Bmatrix}$ | 24   | 36                                | 60  | 26  | UCT315      | 192.5                                 | $\begin{Bmatrix} +0.8 \\ 0 \end{Bmatrix}$ | 24   | 40                                | 70  | 28  |
| UCT215            | 151.5                                 | $\begin{Bmatrix} +0.8 \\ 0 \end{Bmatrix}$ | 24   | 36                                | 60  | 26  | UCT316      | 204.5                                 | $\begin{Bmatrix} +0.8 \\ 0 \end{Bmatrix}$ | 28   | 46                                | 80  | 34  |
| UCT216            | 165.5                                 | $\begin{Bmatrix} +0.8 \\ 0 \end{Bmatrix}$ | 24   | 36                                | 60  | 26  | UCT317      | 215                                   | $\begin{Bmatrix} +1.0 \\ 0 \end{Bmatrix}$ | 30   | 46                                | 80  | 34  |
| UCT217            | 173.5                                 | $\begin{Bmatrix} +1.0 \\ 0 \end{Bmatrix}$ | 28   | 42                                | 60  | 30  | UCT318      | 229                                   | $\begin{Bmatrix} +1.0 \\ 0 \end{Bmatrix}$ | 30   | 50                                | 90  | 38  |
|                   |                                       |                                           |      |                                   |     |     | UCT319      | 241                                   | $\begin{Bmatrix} +1.0 \\ 0 \end{Bmatrix}$ | 32   | 50                                | 90  | 38  |
|                   |                                       |                                           |      |                                   |     |     | UCT320      | 261                                   | $\begin{Bmatrix} +1.0 \\ 0 \end{Bmatrix}$ | 32   | 50                                | 95  | 40  |
|                   |                                       |                                           |      |                                   |     |     | UCT321      | 261                                   | $\begin{Bmatrix} +1.0 \\ 0 \end{Bmatrix}$ | 32   | 50                                | 95  | 40  |
|                   |                                       |                                           |      |                                   |     |     | UCT322      | 286                                   | $\begin{Bmatrix} +1.0 \\ 0 \end{Bmatrix}$ | 34   | 55                                | 100 | 44  |
|                   |                                       |                                           |      |                                   |     |     | UCT324      | 321                                   | $\begin{Bmatrix} +1.0 \\ 0 \end{Bmatrix}$ | 40   | 60                                | 110 | 50  |
|                   |                                       |                                           |      |                                   |     |     | UCT326      | 351                                   | $\begin{Bmatrix} +1.5 \\ 0 \end{Bmatrix}$ | 46   | 65                                | 115 | 55  |
|                   |                                       |                                           |      |                                   |     |     | UCT328      | 381                                   | $\begin{Bmatrix} +1.5 \\ 0 \end{Bmatrix}$ | 46   | 70                                | 120 | 60  |

## 12. Handling of the Bearing Unit

### 12.1 Mounting of the housing

#### 12.1.1 Pillow block type and flange type

Although an advantage of the **OID** bearing unit is that it can be fitted easily and will function efficiently on any part of a machine, attention must be paid to the following points in order to ensure its normal service life.

- 1) The surface on which the housing is mounted must be sufficiently rigid.
- 2) The surface on which the housing is mounted should be as flat as possible (Flatness:0.05 max. The housing should set firmly in its position). Deformation of the housing caused by incorrect mounting will in turn cause deformation of the bearing, leading to its premature breakdown.
- 3) Angle error between housing mounting face and shaft is desirable to be within  $\pm 2^\circ$  ( $\pm 1^\circ$  for outer ring narrow width type) from relationship with replenishment of grease. For unit with cover, the angle error is desirable to be as small as possible within  $\pm 1^\circ$  to ensure the sealing performance for the cover.

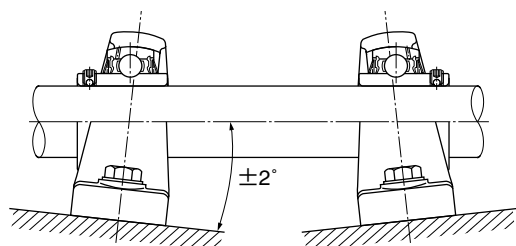


Fig. 12.1

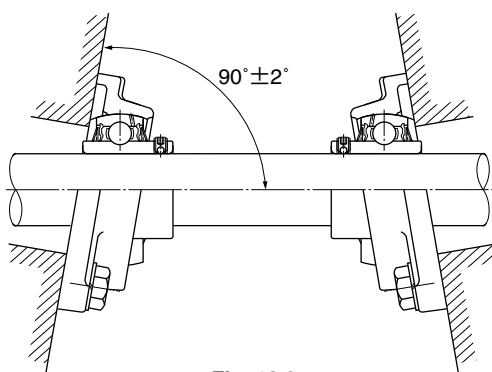


Fig. 12.2

- 4) Excessive tightening of the mounting bolts may cause the housing to deform. Tightening the bolts to the proper torque can avoid this issue. Also, **OID** recommends using a washer with the bolt when mounting the housing as the bolt alone may cause damage to the housing.

Table 12.1 (1) Tightening torque of hexagon bolt (Reference value)

Except Resin Housing

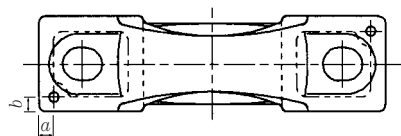
| Bolt size | Tightening torques |           | Bolt size | Tightening torques |             |
|-----------|--------------------|-----------|-----------|--------------------|-------------|
|           | N·m                | lbf·inch  |           | N·m                | lbf·inch    |
| M5        | 1.8~3.0            | 16~27     | M22       | 158~264            | 1400~2340   |
| M6        | 3.0~5.1            | 27~45     | M24       | 204~340            | 1800~3000   |
| M8        | 7.3~12             | 65~106    | M27       | 294~489            | 2600~4330   |
| M10       | 14~24              | 124~212   | M30       | 401~668            | 3550~5910   |
| M12       | 25~41              | 221~363   | M33       | 539~899            | 4770~7960   |
| M14       | 39~66              | 345~584   | M36       | 697~1160           | 6170~10300  |
| M16       | 60~101             | 531~894   | M39       | 893~1490           | 7900~13200  |
| M18       | 84~141             | 743~1250  | M42       | 1110~1850          | 9820~16400  |
| M20       | 118~196            | 1040~1730 | M45       | 1380~2300          | 12200~20400 |

Table 12.1 (2) Tightening torque of hexagon bolt (Reference value)

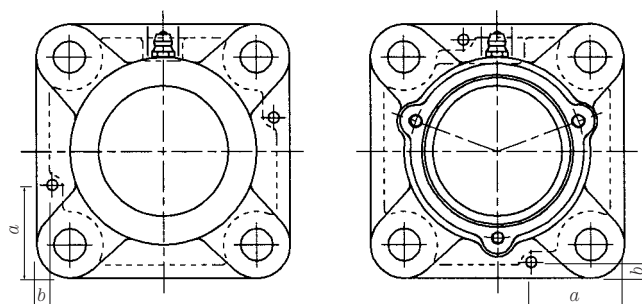
Resin Housing

| Housing No. | Bolt size | Tightening torques |          | Housing No. | Bolt size | Tightening torques |          |
|-------------|-----------|--------------------|----------|-------------|-----------|--------------------|----------|
|             |           | N·m                | lbf·inch |             |           | N·m                | lbf·inch |
| PR204D1     | M10       | 17.7               | 156      | FLR204D1    | M10       | 17.7               | 156      |
| PR205D1     | M10       | 24.5               | 217      | FLR205D1    | M10       | 24.5               | 217      |
| PR206D1     | M12       | 29.4               | 260      | FLR206D1    | M10       | 29.4               | 260      |
| PR207D1     | M12       | 35.3               | 312      | FLR207D1    | M12       | 35.3               | 312      |
| PR208D1     | M12       | 45.1               | 399      | FLR208D1    | M12       | 40.2               | 356      |

- 5) The pillow block type and flange type housings are provided with a seat for a dowel for accurate location. For the use of dowel pins, refer to Table 12.2.



P, C-P



F

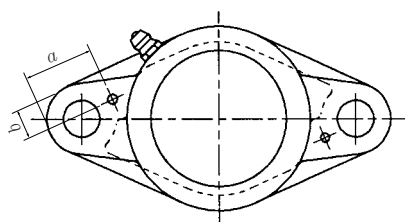
C-F

Table 12.2 Recommended dimensions of dowel pins

| Designation of the housings |        | a   |       | b   |       | Recommended pin diameter |       |
|-----------------------------|--------|-----|-------|-----|-------|--------------------------|-------|
|                             |        | mm  | inch  | mm  | inch  |                          |       |
| P203                        | —      | 5.5 | 0.216 | 5.5 | 0.216 | 3                        | 0.118 |
| P204                        | C-P204 | 5.5 | 0.216 | 5.5 | 0.216 | 3                        | 0.118 |
| P205                        | C-P205 | 5.5 | 0.216 | 5.5 | 0.216 | 3                        | 0.118 |
| P206                        | C-P206 | 5.5 | 0.216 | 5.5 | 0.216 | 3                        | 0.118 |
| P207                        | C-P207 | 5.5 | 0.216 | 5.5 | 0.216 | 3                        | 0.118 |
| P208                        | C-P208 | 7   | 0.276 | 7   | 0.276 | 5                        | 0.197 |
| P209                        | C-P209 | 7   | 0.276 | 7   | 0.276 | 5                        | 0.197 |
| P210                        | C-P210 | 7.5 | 0.295 | 7.5 | 0.295 | 5                        | 0.197 |
| P211                        | C-P211 | 7.5 | 0.295 | 7.5 | 0.295 | 5                        | 0.197 |
| P212                        | C-P212 | 9   | 0.354 | 9   | 0.354 | 7                        | 0.276 |
| P213                        | C-P213 | 9   | 0.354 | 9   | 0.354 | 7                        | 0.276 |
| P214                        | C-P214 | 9   | 0.354 | 9   | 0.354 | 7                        | 0.276 |
| P215                        | C-P215 | 9   | 0.354 | 9   | 0.354 | 7                        | 0.276 |
| P216                        | C-P216 | 10  | 0.394 | 10  | 0.394 | 7                        | 0.276 |
| P217                        | C-P217 | 12  | 0.472 | 12  | 0.472 | 10                       | 0.394 |
| P218                        | C-P218 | 12  | 0.472 | 12  | 0.472 | 10                       | 0.394 |
| P305                        | C-P305 | 8   | 0.315 | 8   | 0.315 | 4                        | 0.157 |
| P306                        | C-P306 | 8   | 0.315 | 8   | 0.315 | 4                        | 0.157 |
| P307                        | C-P307 | 10  | 0.394 | 10  | 0.394 | 5                        | 0.197 |
| P308                        | C-P308 | 10  | 0.394 | 10  | 0.394 | 5                        | 0.197 |
| P309                        | C-P309 | 10  | 0.394 | 10  | 0.394 | 5                        | 0.197 |
| P310                        | C-P310 | 12  | 0.472 | 12  | 0.472 | 6                        | 0.236 |
| P311                        | C-P311 | 12  | 0.472 | 12  | 0.472 | 6                        | 0.236 |
| P312                        | C-P312 | 14  | 0.551 | 14  | 0.551 | 6                        | 0.236 |
| P313                        | C-P313 | 14  | 0.551 | 14  | 0.551 | 6                        | 0.236 |
| P314                        | C-P314 | 14  | 0.551 | 14  | 0.551 | 6                        | 0.236 |
| P315                        | C-P315 | 17  | 0.669 | 17  | 0.669 | 8                        | 0.315 |
| P316                        | C-P316 | 17  | 0.669 | 17  | 0.669 | 8                        | 0.315 |
| P317                        | C-P317 | 17  | 0.669 | 17  | 0.669 | 8                        | 0.315 |
| P318                        | C-P318 | 17  | 0.669 | 17  | 0.669 | 8                        | 0.315 |
| P319                        | C-P319 | 17  | 0.669 | 17  | 0.669 | 8                        | 0.315 |
| P320                        | C-P320 | 17  | 0.669 | 17  | 0.669 | 8                        | 0.315 |
| P321                        | C-P321 | 17  | 0.669 | 17  | 0.669 | 8                        | 0.315 |
| P322                        | C-P322 | 19  | 0.748 | 19  | 0.748 | 10                       | 0.394 |
| P324                        | C-P324 | 19  | 0.748 | 19  | 0.748 | 10                       | 0.394 |
| P326                        | C-P326 | 23  | 0.906 | 23  | 0.906 | 12                       | 0.472 |
| P328                        | C-P328 | 23  | 0.906 | 23  | 0.906 | 12                       | 0.472 |

| Designation of the housings |        | a   |       | b   |       | Recommended pin diameter |       |
|-----------------------------|--------|-----|-------|-----|-------|--------------------------|-------|
|                             |        | mm  | inch  | mm  | inch  |                          |       |
| F204                        | C-F204 | 33  | 1.229 | 6   | 0.236 | 4                        | 0.157 |
| F205                        | C-F205 | 35  | 1.378 | 6   | 0.236 | 4                        | 0.157 |
| F206                        | C-F206 | 35  | 1.378 | 6   | 0.236 | 4                        | 0.157 |
| F207                        | C-F207 | 38  | 1.496 | 7   | 0.276 | 5                        | 0.197 |
| F208                        | C-F208 | 40  | 1.575 | 8   | 0.315 | 5                        | 0.197 |
| F209                        | C-F209 | 43  | 1.693 | 8   | 0.315 | 5                        | 0.197 |
| F210                        | C-F210 | 49  | 1.929 | 8   | 0.315 | 5                        | 0.197 |
| F211                        | C-F211 | 49  | 1.929 | 8   | 0.315 | 5                        | 0.197 |
| F212                        | C-F212 | 49  | 1.929 | 8   | 0.315 | 5                        | 0.197 |
| F213                        | C-F213 | 52  | 2.047 | 9   | 0.354 | 6                        | 0.236 |
| F214                        | C-F214 | 52  | 2.047 | 9   | 0.354 | 6                        | 0.236 |
| F215                        | C-F215 | 52  | 2.047 | 9   | 0.354 | 6                        | 0.236 |
| F216                        | C-F216 | 55  | 2.165 | 12  | 0.472 | 6                        | 0.236 |
| F217                        | C-F217 | 55  | 2.165 | 12  | 0.472 | 6                        | 0.236 |
| F218                        | C-F218 | 61  | 2.402 | 14  | 0.551 | 6                        | 0.236 |
| F305                        | C-F305 | 35  | 1.378 | 6   | 0.236 | 4                        | 0.157 |
| F306                        | C-F306 | 40  | 1.575 | 6   | 0.236 | 4                        | 0.157 |
| F307                        | C-F307 | 47  | 1.805 | 8   | 0.315 | 5                        | 0.197 |
| F308                        | C-F308 | 48  | 1.890 | 8   | 0.315 | 5                        | 0.197 |
| F309                        | C-F309 | 48  | 1.890 | 8   | 0.315 | 5                        | 0.197 |
| F310                        | C-F310 | 48  | 1.890 | 8   | 0.315 | 5                        | 0.197 |
| F311                        | C-F311 | 51  | 2.008 | 10  | 0.394 | 5                        | 0.197 |
| F312                        | C-F312 | 51  | 2.008 | 10  | 0.394 | 5                        | 0.197 |
| F313                        | C-F313 | 57  | 2.244 | 10  | 0.394 | 6                        | 0.236 |
| F314                        | C-F314 | 61  | 2.402 | 10  | 0.394 | 6                        | 0.236 |
| F315                        | C-F315 | 65  | 2.559 | 8.5 | 0.335 | 6                        | 0.236 |
| F316                        | C-F316 | 65  | 2.559 | 8.5 | 0.335 | 6                        | 0.236 |
| F317                        | C-F317 | 70  | 2.756 | 9   | 0.354 | 6                        | 0.236 |
| F318                        | C-F318 | 80  | 3.150 | 10  | 0.394 | 8                        | 0.315 |
| F319                        | C-F319 | 80  | 3.150 | 10  | 0.394 | 8                        | 0.315 |
| F320                        | C-F320 | 80  | 3.150 | 10  | 0.394 | 8                        | 0.315 |
| F321                        | C-F321 | 80  | 3.150 | 10  | 0.394 | 8                        | 0.315 |
| F322                        | C-F322 | 90  | 3.543 | 10  | 0.394 | 8                        | 0.315 |
| F324                        | C-F324 | 90  | 3.543 | 13  | 0.512 | 10                       | 0.394 |
| F326                        | C-F326 | 100 | 3.937 | 13  | 0.512 | 10                       | 0.394 |
| F328                        | C-F328 | 108 | 4.252 | 13  | 0.512 | 10                       | 0.394 |





FL

| Designation<br>of the<br>housings | <i>a</i> |       | <i>b</i> |       | Recommended<br>pin diameter |       |
|-----------------------------------|----------|-------|----------|-------|-----------------------------|-------|
|                                   | mm       | inch  | mm       | inch  | mm                          | inch  |
| FL204                             | 22       | 0.866 | 10       | 0.394 | 4                           | 0.157 |
| FL205                             | 32       | 1.260 | 10       | 0.394 | 4                           | 0.157 |
| FL206                             | 33       | 1.299 | 12       | 0.472 | 4                           | 0.157 |
| FL207                             | 30       | 1.181 | 14       | 0.551 | 5                           | 0.197 |
| FL208                             | 33       | 1.299 | 15       | 0.591 | 5                           | 0.197 |
| FL209                             | 38       | 1.496 | 15       | 0.591 | 5                           | 0.197 |
| FL210                             | 39       | 1.535 | 16       | 0.630 | 5                           | 0.197 |
| FL211                             | 44       | 1.732 | 18       | 0.709 | 5                           | 0.197 |
| FL212                             | 54       | 2.126 | 19       | 0.748 | 5                           | 0.197 |
| FL213                             | 53       | 2.087 | 18       | 0.709 | 6                           | 0.236 |
| FL214                             | 53       | 2.087 | 18       | 0.709 | 6                           | 0.236 |
| FL215                             | 55       | 2.165 | 21       | 0.827 | 6                           | 0.236 |
| FL216                             | 55       | 2.165 | 21       | 0.827 | 6                           | 0.236 |
| FL217                             | 55       | 2.165 | 21       | 0.827 | 6                           | 0.236 |
| FL218                             | 55       | 2.165 | 22       | 0.866 | 6                           | 0.236 |
| FL305                             | 35       | 1.378 | 9        | 0.354 | 4                           | 0.157 |
| FL306                             | 44       | 1.732 | 11       | 0.433 | 4                           | 0.157 |
| FL307                             | 43       | 1.693 | 13       | 0.512 | 5                           | 0.197 |
| FL308                             | 45       | 1.772 | 15       | 0.591 | 5                           | 0.197 |
| FL309                             | 51       | 2.008 | 18       | 0.709 | 5                           | 0.197 |
| FL310                             | 55       | 2.165 | 15       | 0.591 | 5                           | 0.197 |
| FL311                             | 55       | 2.165 | 15       | 0.591 | 5                           | 0.197 |
| FL312                             | 60       | 2.363 | 18       | 0.709 | 5                           | 0.197 |
| FL313                             | 59       | 2.323 | 24       | 0.945 | 6                           | 0.236 |
| FL314                             | 63       | 2.480 | 24       | 0.945 | 6                           | 0.236 |
| FL315                             | 66       | 2.598 | 23       | 0.906 | 6                           | 0.236 |
| FL316                             | 72       | 2.835 | 27       | 1.063 | 6                           | 0.236 |
| FL317                             | 74       | 2.913 | 29       | 1.142 | 6                           | 0.236 |
| FL318                             | 74       | 2.913 | 29       | 1.142 | 8                           | 0.315 |
| FL319                             | 80       | 3.150 | 30       | 1.181 | 8                           | 0.315 |
| FL320                             | 84       | 3.307 | 30       | 1.181 | 8                           | 0.315 |
| FL321                             | 84       | 3.307 | 30       | 1.181 | 8                           | 0.315 |
| FL322                             | 84       | 3.307 | 36       | 1.417 | 8                           | 0.315 |
| FL324                             | 93       | 3.661 | 38       | 1.496 | 10                          | 0.394 |
| FL326                             | 94       | 3.701 | 39       | 1.535 | 10                          | 0.394 |
| FL328                             | 102      | 4.016 | 40       | 1.575 | 10                          | 0.394 |



### 12.1.2 Cartridge type

The inside diameter of the housing into which a cartridge type unit is inserted should be H7 under general operating conditions. It should be so furnished as to permit the bearing unit to move freely in the axial direction.

## 12.2 Mounting the bearing unit on the shaft

### 12.2.1 Mounting of the set screw system unit

To mount the set screw system bearing unit on the shaft, it is sufficient to tighten the two set screws uniformly.

The construction of the **OID** "Ball-End Set Screw" is illustrated in Fig. 12.3 with the pin design that prevents it from becoming loose even when it is subjected to vibrations or impact loads.

If the fit clearance between the inner ring and the shaft is very small, it is advisable, prior to fastening on the screw, to file off that part of the shaft at which the end of the set screw (ball) strikes, by approximately 0.2 to 0.5mm 0.01 to 0.02 inches, to flatten it, as illustrated in Fig. 12.4.

This will facilitate dismounting of the bearing from the shaft should it become necessary.

The method of mounting the unit on the shaft is as follows:

- 1) Make certain that the end of the set screw is not protruding into the bore of the bearing.

- 2) Holding the unit at right angles to the shaft, insert the shaft into the bore of the bearing without twisting the bearing. Take care not to strike the slinger nor to subject the unit to any shock (Fig. 12.5).

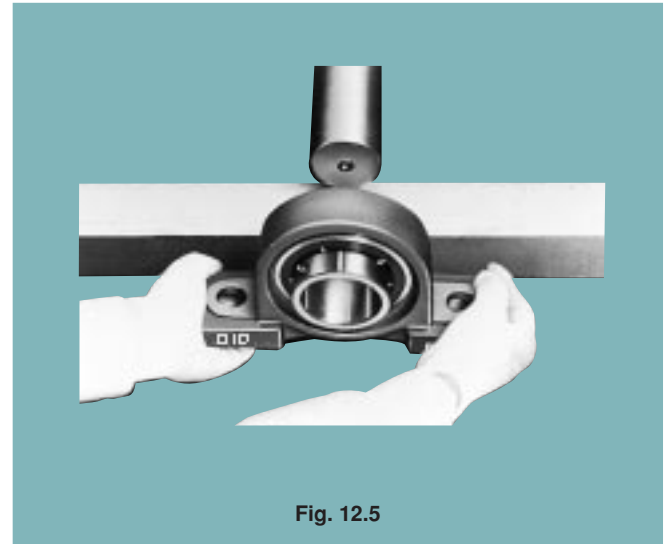


Fig. 12.5

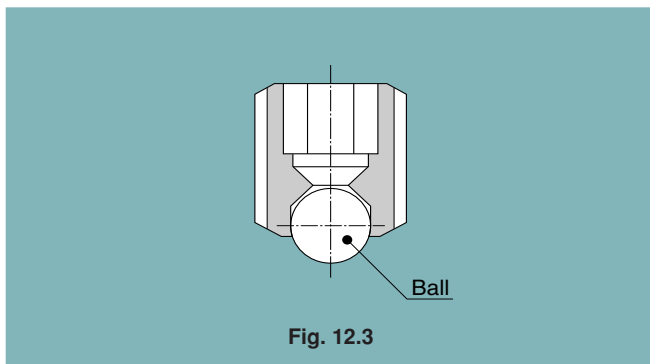


Fig. 12.3

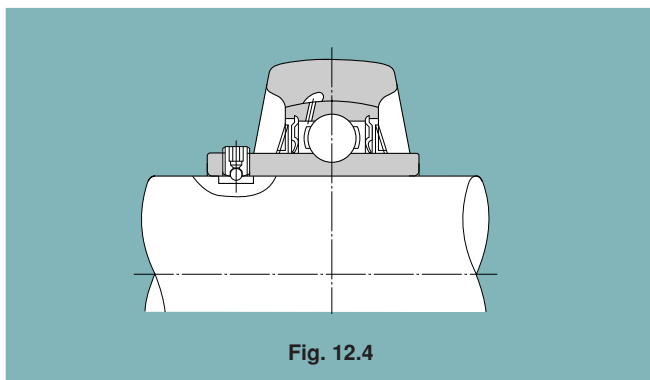


Fig. 12.4

- 3) Mount housing securely in position on the machine. For the hexagon bolt, tightening torque indicated in Table 12.1 shall be recommended value.

- 4) Using tightening torque indicated in Table 12.3 as a guide, tighten the two set-screws uniformly with a torque wrench (Fig. 12.6).

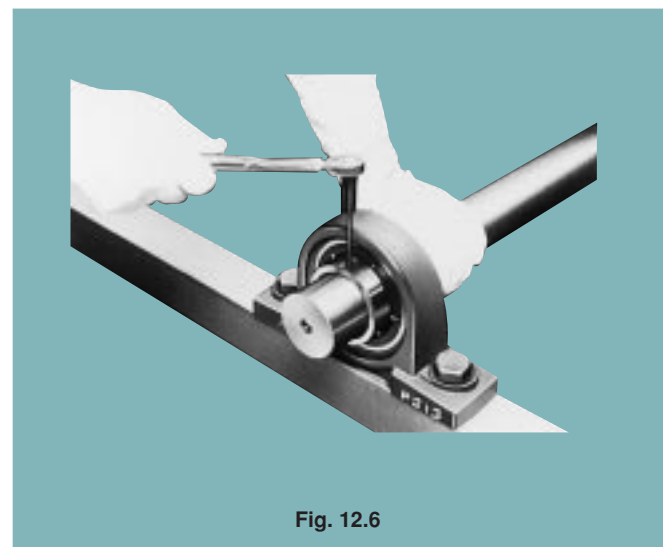


Fig. 12.6

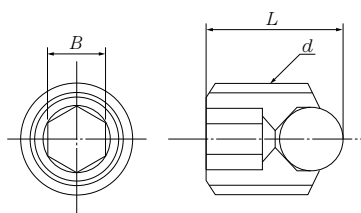
Table 12.3 Recommended torques for tightening set screws

| Designation of the bearings<br>of applicable units |           |           | Designation of set screws |               | Tightening torques<br>N·m {lbf·in} (Max) |
|----------------------------------------------------|-----------|-----------|---------------------------|---------------|------------------------------------------|
|                                                    |           |           | millimeter                | inch          |                                          |
| AS201~203                                          | —         | —         | MSS5                      | S8W4.826×32×7 | 3.4 {30}                                 |
| UC201~205<br>AS204~205                             | —         | —         | MSS5                      | S8W4.826×32×7 | 3.9 {34}                                 |
| UC206<br>AS206<br>AR201~206                        | —         | UC305~306 | MSS6                      | S8W1/4×28×8   | 4.9 {43}                                 |
| UC207<br>AS207<br>AR207                            | UCX05     | —         | MSS6                      | S8W1/4×28×8   | 5.8 {52}                                 |
| UC208~210<br>AS208~210<br>AR208~210                | —         | —         | MSS8                      | S8W5/16×24×10 | 7.8 {69}                                 |
| UC211                                              | UCX06~X08 | UC307     | MSS8                      | S8W5/16×24×10 | 9.8 {86}                                 |
| UC212                                              | UCX09     | —         | MSS10                     | S8W3/8×24×12  | 16.6 {147}                               |
| UC213~215                                          | —         | UC308~309 | MSS10                     | S8W3/8×24×12  | 19.6 {173}                               |
| UC216                                              | UCX10     | —         | MSS10                     | S8W3/8×24×12  | 22.5 {199}                               |
| —                                                  | UCX11~X12 | —         | MSS10                     | S8W3/8×24×12  | 24.5 {216}                               |
| UC217~218                                          | UCX13~X15 | UC310~314 | MSS12                     | S8W1/2×20×13  | 29.4 {260}                               |
| —                                                  | UCX16~X17 | —         | MSS12                     | S8W1/2×20×13  | 34.3 {303}                               |
| —                                                  | UCX18     | UC315~316 | MSS14                     | S8W9/16×18×15 | 34.3 {303}                               |
| —                                                  | UCX20     | UC317~319 | MSS16                     | S8W5/8×18×18  | 53.9 {477}                               |
| —                                                  | —         | UC320~324 | MSS18                     | S8W3/4×16×25  | 58.8 {520}                               |
| —                                                  | —         | UC326~328 | MSS20                     | —             | 78.4 {694}                               |

### How to securely fix the set screw

In the case that impact load is acting on the bearing unit and the unit is operated continuously under relatively high speed ( $d_n = 30,000$  and more) and low load (such as only belt tension), it is possible to securely fix the set screw on the shaft by adding the following method.

- ① After fixing the housing, hit the housing lightly with a wooden or plastic hammer before tightening the set screw. (To prevent “sticking” of the bearing and the shaft)  
→ To be done between procedure 3) and 4).
- ② After the test run of the equipment, tighten the set screw further with specified torque as necessary.  
→ To be done after procedure 4).



#### 1) Standard ball-point set screw (mm size)

Units: mm

| Part No. | d        | L  | B   |
|----------|----------|----|-----|
| MSS 5    | M5×0.8   | 7  | 2.5 |
| MSS 6    | M6×0.75  | 8  | 3   |
| MSS 8    | M8×1.0   | 10 | 4   |
| MSS10    | M10×1.25 | 12 | 5   |
| MSS12    | M12×1.5  | 13 | 6   |
| MSS14    | M14×1.5  | 15 | 6   |
| MSS16    | M16×1.5  | 18 | 8   |
| MSS18    | M18×1.5  | 20 | 8   |
| MSS20    | M20×1.5  | 25 | 10  |

#### 2) Standard ball-point set screw (inch size)

Units: mm

| Part No.       | d           | L  | B     |
|----------------|-------------|----|-------|
| S8W 4.826×32×7 | No.10-32UNF | 7  | 2.381 |
| S8W 1/4×28×8   | 1/4-28UNF   | 8  | 3.175 |
| S8W 5/16×24×10 | 5/16-24UNF  | 10 | 3.969 |
| S8W 3/8×24×12  | 3/8-24UNF   | 12 | 4.762 |
| S8W 1/2×20×13  | 1/2-20UNF   | 13 | 6.350 |
| S8W 9/16×18×15 | 9/16-18UNF  | 15 | 6.350 |
| S8W 5/8×18×18  | 5/8-18UNF   | 18 | 7.938 |
| S8W 3/4×16×25  | 3/4-16UNF   | 25 | 9.525 |

### 12.2.2 Mounting the eccentric locking collar system unit

In this system, unlike the screw system, the shaft and inner ring are fastened together by fastening the eccentric collar in the direction of the rotation of the shaft. They are fastened together securely, and deformation of the inner ring seldom occurs. This system, however, is not recommended for applications where the direction of rotation is sometimes reversed.

Directions for mounting the unit are as follows :

- 1) Make certain that the frame in which the housing is to be mounted is suitable to the operating conditions with regard to rigidity, flatness, etc.
- 2) Make sure that the end of the shaft is not burred and that the end of the set screw in the eccentric collar is not protruding from the interior surface of the collar (Fig. 12.7).

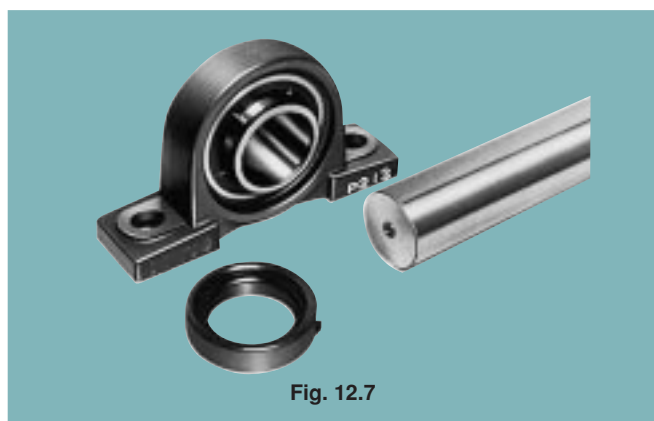


Fig. 12.7

- 3) Mount the housing of the unit securely onto the frame.
- 4) Determine the relative position of the unit and the shaft accurately so that the unit will not be subjected to any thrust, and then insert the eccentric collar (Fig. 12.8).

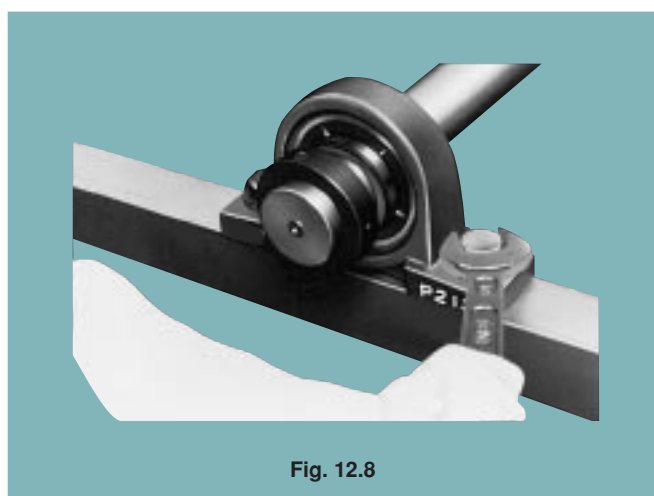


Fig. 12.8

- 5) Fit the eccentric circular ridge provided on the inner ring into the eccentric circular groove of the eccentric collar, and then provisionally tighten by turning the collar by hand in the direction of the shaft (Fig. 12.9).

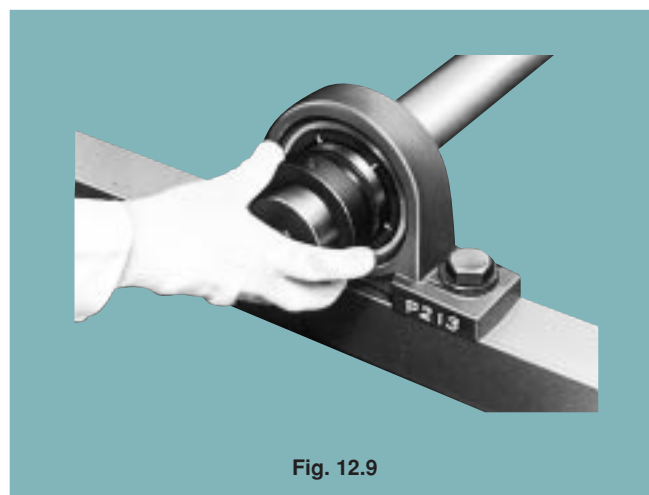


Fig. 12.9

- 6) Insert a bar into the hole provided on the periphery of the eccentric collar and tap the bar so that the collar turns in the direction of rotation of the shaft (see Fig. 12.10).

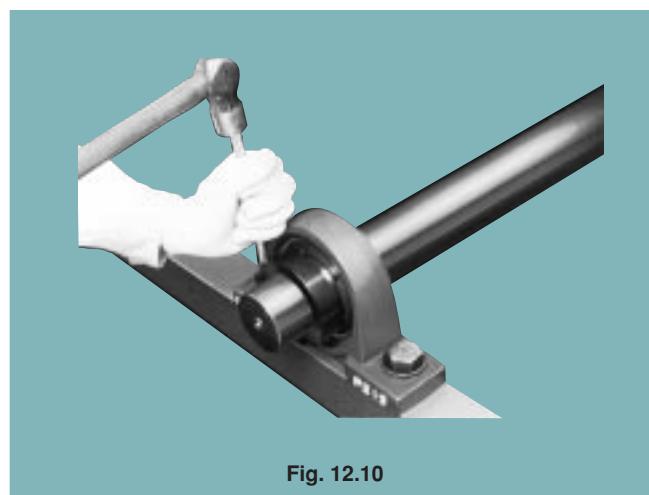


Fig. 12.10

- 7) Fasten the set screw of the eccentric collar onto the shaft. Recommended tightening torques are given in Table 12.4.

**Table 12.4 Recommended torques for tightening set screws of the eccentric collar**

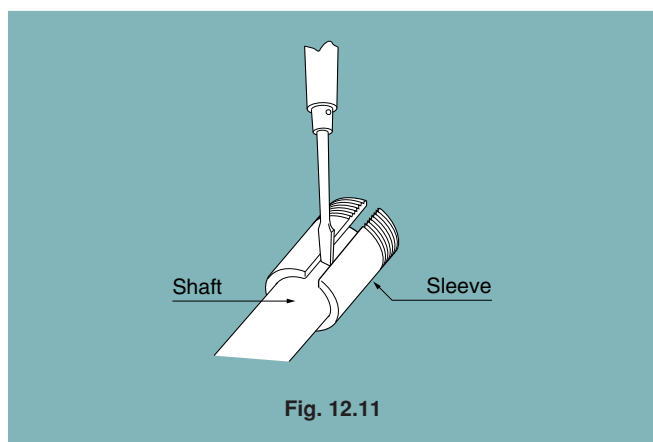
| Designation of the bearings<br>of applicable units |                          |                          | Designation of set screws |               | Tightening torques<br>N·m {lbf} (Max) |
|----------------------------------------------------|--------------------------|--------------------------|---------------------------|---------------|---------------------------------------|
|                                                    |                          |                          | millimeter                | inch          |                                       |
| —                                                  | UEL204~205<br>AEL201~205 | JEL201~205<br>REL201~205 | MSS6                      | S8W1/4×28×8   | 7.8 {69}                              |
| UEL305~307                                         | UEL206<br>AEL206         | JEL206<br>REL206         | MSS8                      | S8W5/16×24×10 | 9.8 {86}                              |
| —                                                  | UEL207<br>AEL207         | JEL207<br>REL207         | MSS10                     | S8W3/8×24×12  | 11.7 {104}                            |
| —                                                  | UEL208~210<br>AEL208~210 | JEL208~210<br>REL208~210 | MSS10                     | S8W3/8×24×12  | 15.6 {138}                            |
| —                                                  | UEL211<br>AEL211         | JEL211<br>REL211         | MSS10                     | S8W3/8×24×12  | 19.6 {173}                            |
| UEL308~312                                         | UEL212~215<br>AEL212     | JEL212<br>REL212         | MSS10                     | S8W3/8×24×12  | 29.4 {206}                            |
| UEL313~314                                         | —                        | —                        | MSS12                     | S8W1/2×20×13  | 34.3 {303}                            |
| UEL315~317                                         | —                        | —                        | MSS16                     | S8W5/8×18×18  | 53.9 {477}                            |
| UEL318~322                                         | —                        | —                        | MSS20                     | S8W3/4×16×25  | 78.4 {694}                            |

### 12.2.3 Mounting of the adapter system unit

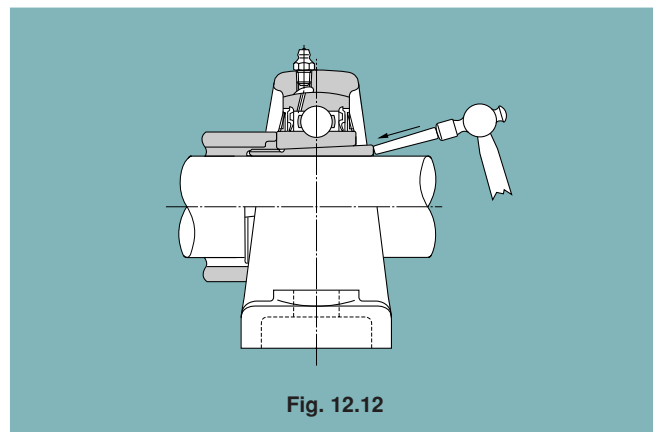
When an adapter system unit is used, there is no danger of the fit between the shaft and the inner ring working loose even if it is subjected to impact loads or vibration. Furthermore, straight shafts may be used under any operating conditions, except where there is a large axial load.

To mount the adapter system unit onto the shaft, the procedure is as follows:

- 1) Adjust the position of the sleeve so that the tapered part comes to about the center of the bearing. To facilitate the mounting of the sleeve onto the shaft, the opening in the sleeve can be widened using a screwdriver or similar implement. The sleeve should be positioned so that the nut is located on the opposite side from the pulley, etc., for easier handling (Fig. 12.11).



- 2) Place the bearing unit with the tapered bore properly oriented on the sleeve and abut a cylindrical sleeve against the lock nut side face of the inner ring. Tap the adapter sleeve lightly over its entire periphery, as shown in Fig. 12.12, until a positive contact is made between the bearing and the sleeve.



- 3) Insert the washer and tighten the nut fully by hand.
- 4) Apply a jig (or screwdriver where no jig is available) to the notch of the nut and tap it with a hammer. Stop tapping after the nut has turned through from 60° to 90°. Be careful not to strike the slinger.  
Care should also be taken not to over-tighten the nut, as this will deform the inner ring, causing heat generation and seizure.
- 5) Bend up the tab on the rim of the washer, which is in line with the notch of the nut. This will prevent the nut from turning. The nut must not be turned backwards to bring the notch into line with the tab on the washer.
- 6) Mount the housing securely in position on the machine.

#### 12.2.4 Mounting covered bearing units

For selection of the shaft, mounting the bearing onto the shaft and fitting the housing follow the same procedure as for standard bearing units. Furthermore, fitting the cover presents no special difficulty, with no need for special tools or jigs.

The procedure for mounting covered bearing units is as follows:

- 1) Remove the cover from the bearing unit. The steel cover can usually be removed easily by hand, but should there be any difficulty due to an over-tight fit, insert a screwdriver or similar tool in a twisting motion, as shown in Fig. 12.13.



Fig. 12.13

- 2) In order to augment the dust and waterproofing effects, completely fill the space between the two lips of the rubber seal incorporated in the cover with grease, and apply grease to the inside of the cover, filling about two-thirds of the space. Cup grease is commonly used for this purpose (Fig. 12.14).
- 3) First, pass one of the two grease-packed covers along the shaft, and then slide the bearing unit onto the shaft and fix the inner ring fast on the shaft before tightening the bolts holding the housing. Sometimes these steps are reversed for convenience of assembly. It is recommended that the end of the shaft be chamfered beforehand to avoid damaging the lips of the rubber seal.
- 4) Next take the cover which has been passed along the



Fig. 12.14

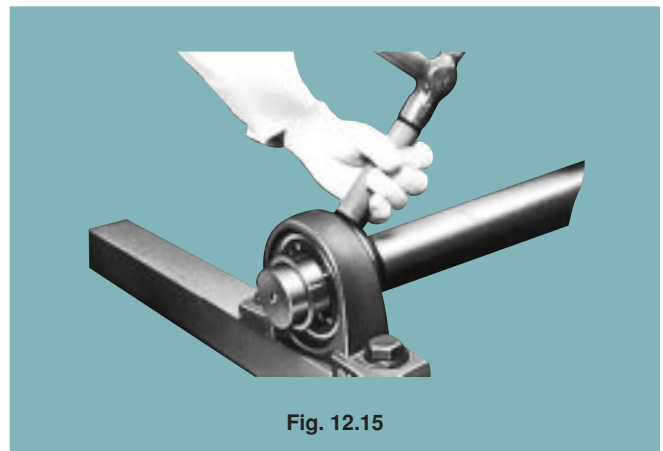


Fig. 12.15

shaft and press it into the housing as follows: Be careful not to strike the surface of the steel cover directly with a steel hammer but use a synthetic resin or wood block in between. Do not strike only in one place but tap the cover all the way round until it is firmly seated in the housing. (Fig. 12.15)

The cast iron cover is fastened with three bolts.

- 5) Pack the second cover with grease as in step 2 and pass it along the shaft. In the case of a blind cover, the recess of the housing should be filled with grease (Fig. 12.14).
- 6) Fit the cover into the recess of the housing using the same procedure as detailed in Step 4) (Fig. 12.16).

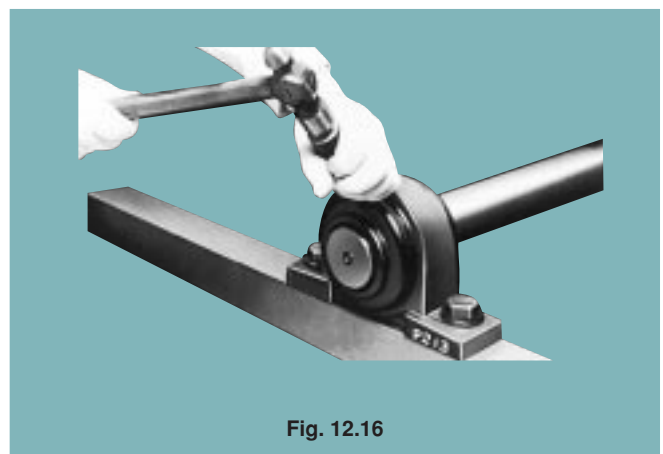
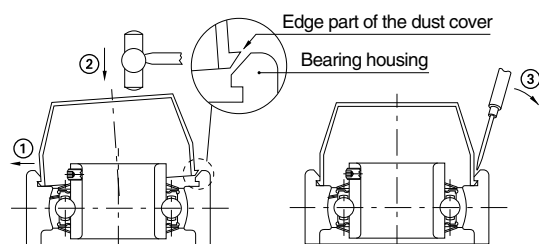


Fig. 12.16

### 12.2.5 Mounting resin covered bearing units

- ① Insert the edge of the dust cover in the housing's groove.
- ② Insert the other side of the dust cover in the opposite housing groove either by hand or with assistance of a plastic/rubber mallet/hammer.
- ③ To remove the dust cover, pry the edge from the housing groove using a screw driver or similar tool.

※ Note: frequent mounting/dismounting of the dust cover may damage the edge of the housing and is not recommended.



### 12.3 Running tests

After mounting the bearing unit, check that it has been done correctly.

First, turn the shaft or the rotor by hand to make certain that it rotates smoothly. If there is no irregularity, start up the machine. Run the machine at low speed under no load and gradually bring it up to full operating speed while checking that there are no abnormalities.

Some indications of abnormality or faulty assembly are as follows:

When the shaft is turned by hand a resistance or drag is felt, or the shaft appears to become heavy or light in turn. Or, if the machine is running under power, any abnormal noise, vibration or overheating is evident.

### 12.4 Inspection during operation

Although the **OID** lubrication-free bearing unit does not require refilling with grease while in use, periodic inspections are necessary to ensure safe operation of the unit's most important parts. While the interval between inspections varies from case to case, according to the degree of importance and the rate of operation, it is usually some time between two weeks and a month.

Since the inside of the bearing can be examined only by removing the slinger, seal etc., the condition of the bearing should be judged by checking for the presence of vibration, noise, overheating of the housing, etc., while the machine is running.

### 12.5 Dismounting the bearing unit

If some abnormality makes it necessary to dismount the bearing unit from the shaft in order to replace it, the procedure used to mount the bearing is followed in reverse order. In this case, special care should be given to the following points:

#### 1) Set screw system units:

If the set screw is protruding into the bore of the bearing when the unit is withdrawn from the shaft, it will damage the shaft. Therefore the screw should be turned back fully.

#### 2) Adapter system units:

To remove an adapter system bearing unit from the shaft, raise the tab of the washer, turn the nut two or three turns back, and apply a metal block to the nut and tap it with a hammer. Do this all round the nut, until the sleeve can be moved (Fig. 12.17).

If the nut is turned back too far and the screws are only slightly engaged, tapping to remove it will eventually ruin the screws.

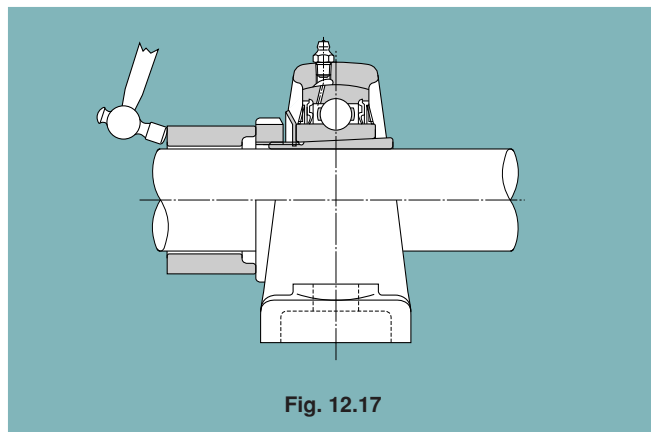


Fig. 12.17

### 12.6 Replacement of the bearing

If the bearing in the **OID** bearing unit needs to be replaced, this can be carried out simply with a plummer block. There is no need to replace the housing, as it is reusable.

The bearing is changed using the following procedure: First, the set screw should be tightened as much as possible. Otherwise, there is a danger that it may catch in the housing when the bearing is tilted.

Next, insert the handle of a hammer or similar tool into the bore of the bearing and twist. Tilt the bearing through a full 90°, and pull it in the direction of the notch on the housing to remove it. To install a new bearing in the housing, follow the same procedure in reverse.



## Bearing units stainless series (Stainless bearings + Stainless steel housing)

This new series from **OID** provides corrosion resistance and longer lubrication life in a clean unit with low torque characteristics.



### Guards against corrosion

**OID** bearing units in the stainless series feature ball bearings inserted into housings made of stainless that provide superior resistance to corrosion as compared to standard series cast iron units. This series is especially useful in a wide variety of applications because of the rust free properties of the housing.

### Longer lubrication life

The solid grease lubricating the bearing has been heat-hardened and is a mixture of lubricant and ultra high molecular weight polyethylene. The solid grease reduces leakage, prolonging lubricant life especially when used under conditions of vibration or centrifugal force. Also, this grease will not homogenize when water penetrates into the bearing raceway.

### Maintains a clean operating environment

The solid grease lubricant in the ball bearing, solely developed by **OID**, reduces leakage from the bearing, significantly reducing environmental pollution.

### Low torque characteristics

The standard solid grease type for these ball bearing units is spot-pack which places the lubricant on the bearing cage. Torque consumption capabilities of spot-pack bearings is low due to reduced whip resistance in comparison to standard grease lubricated ball bearings.

### Interchangeability

The basic dimensions are the same as current **OID** units and are also compatible with units from other manufacturers ISO standard.

## Bearing units plastic housing series (Stainless bearings + Glass fiber reinforced plastic housing)

The **OID** plastic series ensures a clean operating environment.



### Guards against corrosion

**OID** bearing units in the plastic series feature ball bearings inserted into housings made of plastics that provide superior resistance to corrosion as compared to standard series cast iron units. This series is especially useful in a wide variety of applications because of the nonmagnetic and rust free properties of the housing.

### Maintains a clean operating environment

The solid grease lubricant in the ball bearing, solely developed by **OID**, reduces leakage from the bearing, significantly reducing environmental pollution. Also, the housing will not stain, nor is there paint to peel and contaminate the environment.

### Low torque characteristics

The standard solid grease type for these ball bearing units is spot-pack which places the lubricant on the bearing cage. Torque consumption capabilities of spot-pack bearings is low due to reduced whip resistance in comparison to standard grease lubricated ball bearings.

### Light weight

Weight is reduced more than 30% to 60% over standard series units.

### Water resistant

The glass filled polyester housing not only reduces corrosion but offers better water resistance.

## Bearing units with ductile cast iron housing (Spheroidal graphite cast iron housing)

The **OID** ductile series helps with design optimization!



### Housing weight is reduced by 40%, with a compact design

When compared with the standard **OID** housing the ductile series housing enjoys a 40% weight reduction. Additionally the housing is useful for a size reduction in machine equipment. This is achieved by minimizing as much as possible non-critical dimensions of the housing allowing the housing to be placed in tight locations.

### High fracture strength of housing

Spheroidal graphite cast iron is used for the bearing housing. It is designed to have high strength with fine material structure and uniform thickness. The average fracture strength for the series is increased by approximately 30% when compared with **OID**'s standard product (FC200, Gray cast iron).

### Two lubrication types : Relubricatable type maintenance free type

The relubricatable type is suitable for high temperature and high speed application, and the maintenance free type is optimized for a long period under normal using conditions without re-greasing.

### Interchangeability

This series is interchangeable with **OID** standard product and other domestic suppliers' product. This is achieved by keeping the dimensions related to mounting the same as for standard product made according to JIS B 1559 (Housings for rolling bearing units).

## Bearing units steel series (Rolled steel housing for general structures)

**OID** rolled steel housings ensure a safer design



### Superior Housing Strength

Made of precision gas cut rolled steel, **OID** steel housings offer superior strength characteristics when compared to cast iron and cast steel housings.

### Consistent Microstructure

The rolled steel microstructure is more consistent than cast iron or cast steel, reducing the risk of housing fracture under severe conditions.

### Interchangeability

Rolled steel housing dimensions are consistent with cast units, allowing them to be interchanged with **OID** standard housings and other manufacturers ISO standard.

### Applications

**OID** rolled steel housings provide superior strength to cast steel and cast iron. Their ability to resist impact loads makes them suitable for applications involving heavy loads and vibration. Possible applications for **OID** rolled steel housings include but are not limited to conveyors, trucks and overhead cranes at steel mills, mining machinery and pollution control equipment.



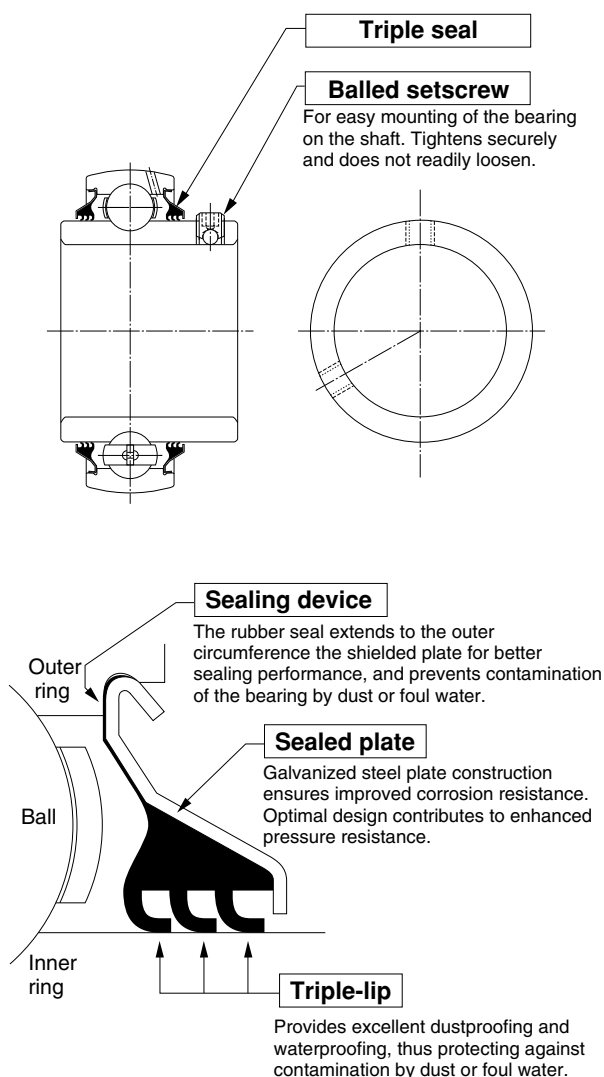
## OID Triple-Sealed Bearings for Bearing Units

These reliable triple-sealed bearings are dustproof and waterproof.

They ensure a longer bearing life even when exposed to heavy airborne dust and splashes of foul water.



### 1. Construction



### 2. Features

#### Better dustproofing and waterproofing ensure a longer bearing life.

Triple-sealed bearings feature a secure bearing seal with three lips. This special seal offers reliable dustproofing and waterproofing superior to those of standard bearings used in bearing units. In addition, it ensures a longer service life, even when exposed to heavy airborne dust and splashes of foul water. (Patent pending)

#### Reduces maintenance cost.

A bearing life longer than that of a standard bearing unit configurations means extended maintenance intervals, greatly reduced maintenance costs (of inspection, relubrication, replacement, etc.), and increased availability of machinery.

#### Decreases price of the bearing unit and contributes to more compact machinery.

The triple-sealed bearing unit replaces conventional covered bearing units in certain operating conditions, greatly decreasing the cost of bearing units. In addition, if the cover is not required, the machinery can be made more compact.

#### Secure balled setscrew

The triple-sealed bearing is mounted on the shaft with OID's unique balled setscrew, which features an embedded ball in its tip. Compared with knurled cup point or cup-point setscrews, the balled setscrew provides much greater resistance to loosening, as it does not readily loosen due to vibration or impact.

#### Interchangeability

The triple-sealed bearing unit conforms to the JIS (Japanese Industrial Standard) for UC-type bearings. It is not only ready to use as a relubricable bearing, but it also replaces the conventional bearing units of **OID** and other manufacturers. It therefore serves as a ready replacement for existing bearing units.

In the meantime, the relubricatable type is recommended to minimize the wear of the seal lip.

### 3. Allowable Operating Temperature Range and Speed

The triple-sealed bearing can be used in a temperature range of -15°C to 100°C.

#### ● Allowable speed

Triple-sealed bearing unit... $d_n$  value : 36000

High-torque triple-sealed bearing unit... $d_n$  value : 21000

# **Bearing Units Dimension Table**

## Set screw type (1)

Page

|               |                                                     |                                                                                     |                         |                   |
|---------------|-----------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------|-------------------|
| Pillow blocks | Pillow blocks cast housing                          |    | UCP2<br>UCP3<br>UCPX    | 58<br>64<br>70    |
|               | Pillow blocks cast housing low center height        |    | UCPL2<br>ASPL2          | 76<br>108         |
|               | Pillow blocks (Steel series)                        |    | UCPG2<br>UCPG3          | 80<br>82          |
|               | Pillow blocks (Stainless series)                    |    | F-UCPM2                 | 84                |
|               | Pillow blocks (Plastic housing series)              |    | F-UCPR2                 | 86                |
|               | Thick pillow blocks cast housing                    |    | UCIP2<br>UCIP3          | 88<br>90          |
|               | Thick pillow blocks (Steel series)                  |    | UCIPG2, 3               | 94                |
|               | Pillow blocks cast housing high center height       |    | UCHP2                   | 96                |
|               | Narrow pillow blocks cast housing                   |  | UCUP2                   | 100               |
|               | Light pillow blocks cast housing                    |  | ASPB2                   | 104               |
|               | Pillow blocks ductile cast housing (Ductile series) |  | UCPE2                   | 106               |
|               | Pillow blocks pressed steel housing                 |  | ASPP2<br>ASRPP2         | 112<br>114        |
| Flanged units | Square flanged units cast housing                   |  | UCF2<br>UCF3<br>UCFX    | 116<br>122<br>128 |
|               | Square flanged units (Steel series)                 |  | UCFG2<br>UCFG3          | 134<br>136        |
|               | Square flanged units cast housing w/ spigot joint   |  | UCFS3                   | 138               |
|               | Square flanged units w/ spigot joint (Steel series) |  | UCFSG3                  | 144               |
|               | Round flanged units cast housing w/ spigot joint    |  | UCFC2<br>UCFCX          | 146<br>152        |
|               | Round flanged units w/ spigot joint (Steel series)  |  | UCFCG2                  | 158               |
|               | Rhombus flanged units cast housing                  |  | UCFL2<br>UCFL3<br>UCFLX | 160<br>166<br>172 |
|               | Rhombus flanged units (Steel series)                |  | UCFLG2<br>UCFLG3        | 174<br>176        |
|               | Rhombus flanged units (Stainless series)            |  | F-UCFM2                 | 178               |
|               | Rhombus flanged units (Plastic housing series)      |  | F-UCFLR2                | 180               |
|               | Modified rhombus flanged units cast housing         |  | UCFA2                   | 182               |
|               | Modified flanged units cast housing                 |  | UCFH2                   | 186               |
|               | Light rhombus flanged units cast housing            |  | ASFB2<br>ASFD2          | 190<br>192        |

## Set screw type (2)

Page

|                 |                                                             |                                                                                       |                      |                   |
|-----------------|-------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------|-------------------|
| Flanged units   | Rhombus flanged units ductile cast housing (Ductile series) |    | UCFE2                | 194               |
|                 | Round flanged units pressed steel housing                   |    | ASPF2<br>ASRPF2      | 196<br>198        |
|                 | Rhombus flanged units pressed steel housing                 |    | ASPF2<br>ASRPF2      | 200               |
| Hanger units    | Hanger units cast housing                                   |    | UCHB2                | 202               |
| Take-up units   | Take-up units cast housing                                  |    | UCT2<br>UCT3<br>UCTX | 206<br>212<br>218 |
|                 | Take-up units (Steel series)                                |    | UCTG2<br>UCTG3       | 224<br>226        |
|                 | Cartridge units cast housing                                |    | UCC2<br>UCC3<br>UCCX | 228<br>230<br>233 |
| Stretcher units | Mini stretcher units                                        |    | ASPT2                | 235               |
|                 | Take-up stretcher units                                     |  | UCT2                 | 408               |
|                 | Type L stretcher units                                      |  | UCL2                 | 410               |
|                 | Type M stretcher units                                      |  | UCM2<br>UCM3         | 411<br>412        |

## Eccentric locking collar type (1)

Page

|               |                                                   |                                                                                       |                            |                   |
|---------------|---------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------|-------------------|
| Pillow blocks | Pillow blocks cast housing                        |  | UEL2<br>UEL3               | 236<br>240        |
|               | Pillow blocks cast housing low center height      |  | UEL2<br>AEL2<br>JEL2       | 246<br>254<br>258 |
|               | Pillow blocks cast housing high center height     |  | UELHP2                     | 250               |
|               | Narrow pillow blocks cast housing                 |  | UELUP2                     | 252               |
|               | Light pillow blocks cast housing                  |  | AELPB2                     | 262               |
|               | Pillow blocks pressed steel housing               |  | AELPP2<br>AELRPP2          | 264<br>266        |
|               | Square flanged units cast housing                 |  | UELF2<br>UELF3             | 268<br>272<br>276 |
|               | Square flanged units cast housing w/ spigot joint |  | UELF3                      | 282               |
| Flanged units | Round flanged units cast housing w/ spigot joint  |  | UELF2                      | 288               |
|               | Rhombus flanged units cast housing                |  | UELF2<br>UELF3             | 292<br>296<br>300 |
|               | Light rhombus flanged units cast housing          |  | AELFB2<br>AELFD2<br>JELFD2 | 306<br>308<br>309 |

## Eccentric locking collar type (2)

| Flanged units   | Round flanged units<br>pressed steel housing   |  | AELPF2   | 310 |
|-----------------|------------------------------------------------|-----------------------------------------------------------------------------------|----------|-----|
|                 |                                                |                                                                                   | JELPF2   | 312 |
| Flanged units   | Rhombus flanged units<br>pressed steel housing |  | AELRPF2  | 314 |
|                 |                                                |                                                                                   | AELPFL2  | 316 |
| Take-up units   | Take-up units cast housing                     |  | AELRPFL2 | 318 |
|                 |                                                |                                                                                   | JELPFL2  | 318 |
| Cartridge units | Cartridge units cast housing                   |  | UFLT2    | 320 |
|                 |                                                |                                                                                   | UFLT3    | 324 |
| Cartridge units | Cartridge units cast housing                   |  | UEL2     | 330 |
|                 |                                                |                                                                                   | UEL3     | 332 |
| Stretcher units | Mini stretcher units                           |  | AELPT2   | 336 |
|                 |                                                |                                                                                   | JELPT2   | 337 |

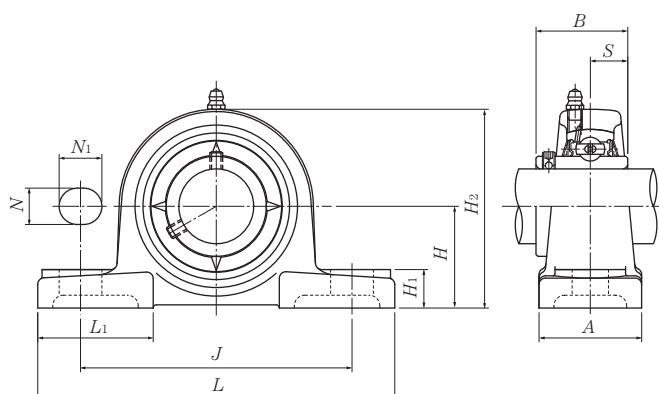
## Adapter type

| Pillow blocks   | Pillow blocks cast housing                           |    | UKP2  | 338 |
|-----------------|------------------------------------------------------|-------------------------------------------------------------------------------------|-------|-----|
|                 |                                                      |                                                                                     | UKP3  | 342 |
| Flanged units   | Square flanged units cast housing                    |    | UKPX  | 348 |
|                 |                                                      |                                                                                     | UKF2  | 352 |
| Flanged units   | Square flanged units cast housing<br>w/ spigot joint |  | UKF3  | 356 |
|                 |                                                      |                                                                                     | UKFX  | 362 |
| Flanged units   | Round flanged units cast housing<br>w/ spigot joint  |  | UKFS3 | 366 |
|                 |                                                      |                                                                                     | UKFC2 | 370 |
| Take-up units   | Take-up units cast housing                           |  | UKFCX | 374 |
|                 |                                                      |                                                                                     | UKFL2 | 378 |
| Cartridge units | Cartridge units cast housing                         |  | UKFL3 | 382 |
|                 |                                                      |                                                                                     | UKFLX | 388 |
| Take-up units   | Take-up units cast housing                           |  | UKT2  | 390 |
|                 |                                                      |                                                                                     | UKT3  | 394 |
| Cartridge units | Cartridge units cast housing                         |  | UKTX  | 400 |
|                 |                                                      |                                                                                     | UKC2  | 404 |
| Cartridge units | Cartridge units cast housing                         |  | UKC3  | 405 |
|                 |                                                      |                                                                                     | UKCX  | 407 |

## Ball bearings

| Set screw type                |    | UC2              | 414 |
|-------------------------------|--------------------------------------------------------------------------------------|------------------|-----|
|                               |                                                                                      | UC3              | 420 |
| Set screw type                |    | UCX              | 426 |
|                               |                                                                                      | F-UC2            | 430 |
| Set screw type                |    | AS2              | 432 |
|                               |                                                                                      | AR2              | 436 |
| Set screw type                |    | UCS2             | 474 |
|                               |                                                                                      | UCS3             | 478 |
| Set screw type                |    | ASS2             | 484 |
|                               |                                                                                      | UEL2             | 440 |
| Eccentric locking collar type |    | UEL3             | 444 |
|                               |                                                                                      | AEL2             | 450 |
| Eccentric locking collar type |    | JEL2             | 454 |
|                               |                                                                                      | REL2             | 458 |
| Eccentric locking collar type |    | UELS2            | 488 |
|                               |                                                                                      | UELS3            | 492 |
| Eccentric locking collar type |  | AELS2            | 498 |
|                               |                                                                                      | JELS2            | 502 |
| Adapter type                  |  | UK2              | 462 |
|                               |                                                                                      | UK3              | 466 |
| Adapter type                  |  | UKX              | 470 |
|                               |                                                                                      | CS2              | 506 |
| Tight fit type                |  | CS3              | 507 |
|                               |                                                                                      | AS (Square bore) | 508 |
| Farm implement bearings       |  | AC (Round bore)  | 516 |
|                               |                                                                                      | AH (Hex-bore)    | 522 |

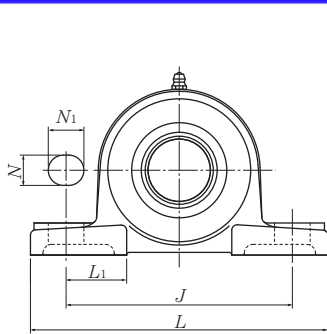
# Pillow blocks cast housing Set screw type



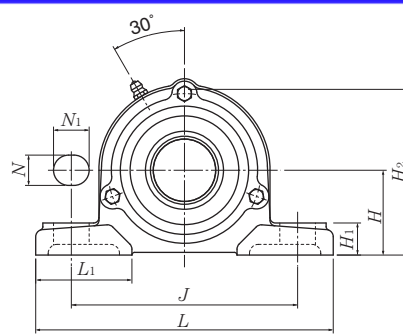
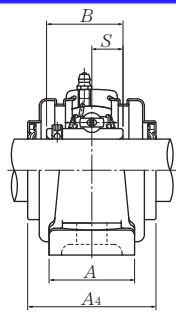
| Shaft<br>dia.                           | Unit number <sup>1)</sup>                                                                                   | Nominal dimensions |           |           |                       |                       |                       |                       |          |          |                |               | Bolt<br>size | Bearing number                                                             |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------|-----------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|----------|----------|----------------|---------------|--------------|----------------------------------------------------------------------------|
|                                         |                                                                                                             |                    |           |           |                       |                       |                       |                       |          |          |                |               |              |                                                                            |
|                                         |                                                                                                             | mm                 |           |           |                       |                       | inch.                 |                       |          |          |                | mm<br>inch    |              |                                                                            |
| <i>H</i>                                | <i>L</i>                                                                                                    | <i>J</i>           | <i>A</i>  | <i>N</i>  | <i>N</i> <sub>1</sub> | <i>H</i> <sub>1</sub> | <i>H</i> <sub>2</sub> | <i>L</i> <sub>1</sub> | <i>B</i> | <i>S</i> |                |               |              |                                                                            |
| <b>12</b><br>½                          | <b>UCP201D1</b><br><b>UCP201-008D1</b>                                                                      | 30.2<br>1⅜         | 127<br>5  | 95<br>3¾  | 38<br>1½              | 13<br>½               | 16<br>⅝               | 14<br>⅑               | 62<br>2⅞ | 42<br>1⅔ | 31<br>1.2205   | 12.7<br>0.500 | M10<br>⅜     | <b>UC201D1</b><br>UC201-008D1                                              |
| <b>15</b><br>⅑<br>⅝                     | <b>UCP202D1</b><br><b>UCP202-009D1</b><br><b>UCP202-010D1</b>                                               | 30.2<br>1⅜         | 127<br>5  | 95<br>3¾  | 38<br>1½              | 13<br>½               | 16<br>⅝               | 14<br>⅑               | 62<br>2⅞ | 42<br>1⅔ | 31<br>1.2205   | 12.7<br>0.500 | M10<br>⅜     | <b>UC202D1</b><br>UC202-009D1<br>UC202-010D1                               |
| <b>17</b><br>11/16                      | <b>UCP203D1</b><br><b>UCP203-011D1</b>                                                                      | 30.2<br>1⅜         | 127<br>5  | 95<br>3¾  | 38<br>1½              | 13<br>½               | 16<br>⅝               | 14<br>⅑               | 62<br>2⅞ | 42<br>1⅔ | 31<br>1.2205   | 12.7<br>0.500 | M10<br>⅜     | <b>UC203D1</b><br>UC203-011D1                                              |
| <b>20</b><br>¾                          | <b>UCP204D1</b><br><b>UCP204-012D1</b>                                                                      | 33.3<br>1⅝         | 127<br>5  | 95<br>3¾  | 38<br>1½              | 13<br>½               | 16<br>⅝               | 14<br>⅑               | 65<br>2⅞ | 42<br>1⅔ | 31<br>1.2205   | 12.7<br>0.500 | M10<br>⅜     | <b>UC204D1</b><br>UC204-012D1                                              |
| <b>25</b><br>13/16<br>7/8<br>15/16<br>1 | <b>UCP205D1</b><br><b>UCP205-013D1</b><br><b>UCP205-014D1</b><br><b>UCP205-015D1</b><br><b>UCP205-100D1</b> | 36.5<br>1⅞         | 140<br>5½ | 105<br>4⅛ | 38<br>1½              | 13<br>½               | 16<br>⅝               | 15<br>19/32           | 71<br>2⅝ | 42<br>1⅔ | 34.1<br>1.3425 | 14.3<br>0.563 | M10<br>⅜     | <b>UC205D1</b><br>UC205-013D1<br>UC205-014D1<br>UC205-015D1<br>UC205-100D1 |
| <b>30</b><br>1⅛<br>1⅝<br>1⅜<br>1¼       | <b>UCP206D1</b><br><b>UCP206-101D1</b><br><b>UCP206-102D1</b><br><b>UCP206-103D1</b><br><b>UCP206-104D1</b> | 42.9<br>1⅞         | 165<br>6½ | 121<br>4¾ | 48<br>1⅞              | 17<br>21/32           | 20<br>25/32           | 17<br>21/32           | 83<br>3⅞ | 54<br>2⅛ | 38.1<br>1.5000 | 15.9<br>0.626 | M14<br>½     | <b>UC206D1</b><br>UC206-101D1<br>UC206-102D1<br>UC206-103D1<br>UC206-104D1 |
| <b>35</b><br>1¼<br>1⅝<br>1⅜<br>1⅞       | <b>UCP207D1</b><br><b>UCP207-104D1</b><br><b>UCP207-105D1</b><br><b>UCP207-106D1</b><br><b>UCP207-107D1</b> | 47.6<br>1⅞         | 167<br>6⅞ | 127<br>5  | 48<br>1⅞              | 17<br>21/32           | 20<br>25/32           | 18<br>23/32           | 93<br>3⅔ | 54<br>2⅛ | 42.9<br>1.6890 | 17.5<br>0.689 | M14<br>½     | <b>UC207D1</b><br>UC207-104D1<br>UC207-105D1<br>UC207-106D1<br>UC207-107D1 |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

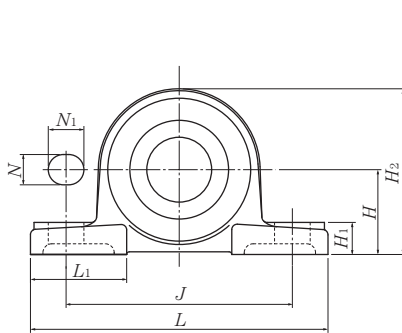
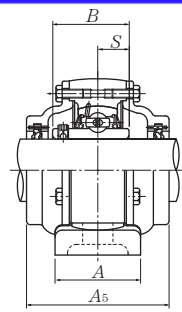
Note: Please refer to page 36 for size of grease fitting.



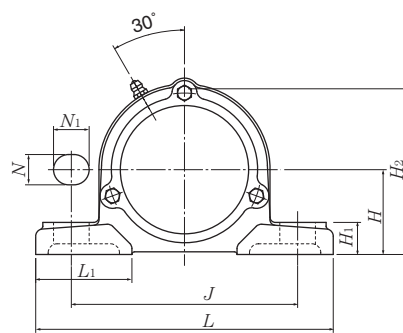
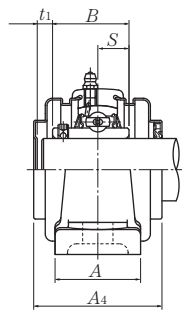
Press steel dust cover type (Open end)  
S-UCP...D1



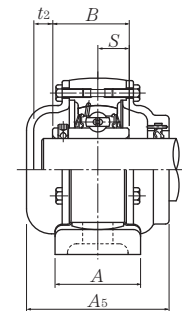
Cast dust cover type (Open end)  
C-UCP...D1



Press Steel dust cover type (Close end)  
SM-UCP...D1



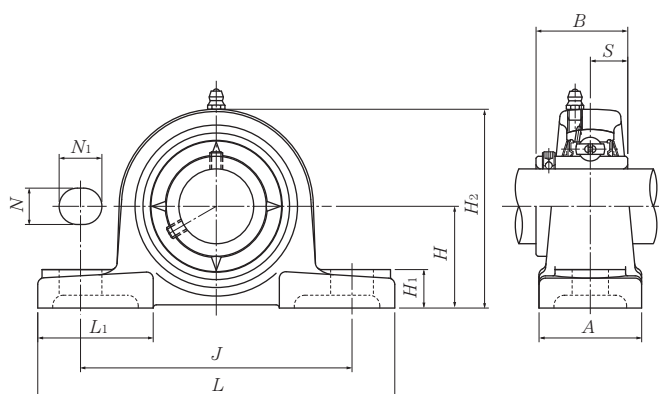
Cast dust cover type (Close end)  
CM-UCP...D1



| Housing<br>number | Unit number <sup>1)</sup><br>pressed steel dust<br>cover type | Unit number <sup>1)</sup><br>cast dust cover type | Nominal dimensions |                |                |                |                | Mass<br>(approx.) |       |       |
|-------------------|---------------------------------------------------------------|---------------------------------------------------|--------------------|----------------|----------------|----------------|----------------|-------------------|-------|-------|
|                   |                                                               |                                                   | mm                 |                | inch           |                |                | kg                |       | lb    |
|                   |                                                               |                                                   | t <sub>1</sub>     | t <sub>2</sub> | A <sub>4</sub> | H <sub>3</sub> | A <sub>5</sub> | UCP               | S(SM) | C(CM) |
| P203D1            | <b>S(SM)-UCP201D1</b>                                         | <b>C(CM)-UCP201D1</b>                             | 5                  | 8              | 51             | 67             | 62             | 0.7               | 0.7   | 1.0   |
| P203D1            | <b>S(SM)-UCP201-008D1</b>                                     | <b>C(CM)-UCP201-008D1</b>                         | 13/64              | 5/16           | 2              | 2 5/8          | 2 7/16         | 1.5               | 1.5   | 2.2   |
| P203D1            | <b>S(SM)-UCP202D1</b>                                         | <b>C(CM)-UCP202D1</b>                             | 5                  | 8              | 51             | 67             | 62             | 0.7               | 0.7   | 1.0   |
| P203D1            | <b>S(SM)-UCP202-009D1</b>                                     | <b>C(CM)-UCP202-009D1</b>                         | 13/64              | 5/16           | 2              | 2 5/8          | 2 7/16         | 1.5               | 1.5   | 2.2   |
| P203D1            | <b>S(SM)-UCP202-010D1</b>                                     | <b>C(CM)-UCP202-010D1</b>                         |                    |                |                |                |                |                   |       |       |
| P203D1            | <b>S(SM)-UCP203D1</b>                                         | <b>C(CM)-UCP203D1</b>                             | 5                  | 8              | 51             | 67             | 62             | 0.7               | 0.7   | 1.0   |
| P203D1            | <b>S(SM)-UCP203-011D1</b>                                     | <b>C(CM)-UCP203-011D1</b>                         | 13/64              | 5/16           | 2              | 2 5/8          | 2 7/16         | 1.5               | 1.5   | 2.2   |
| P204D1            | <b>S(SM)-UCP204D1</b>                                         | <b>C(CM)-UCP204D1</b>                             | 5                  | 8              | 51             | 70             | 62             | 0.7               | 0.7   | 0.9   |
| P204D1            | <b>S(SM)-UCP204-012D1</b>                                     | <b>C(CM)-UCP204-012D1</b>                         | 13/64              | 5/16           | 2              | 2 3/4          | 2 7/16         | 1.5               | 1.5   | 2.0   |
| P205D1            | <b>S(SM)-UCP205D1</b>                                         | <b>C(CM)-UCP205D1</b>                             | 7                  | 11             | 57             | 76             | 70             | 0.8               | 0.9   | 1.1   |
| P205D1            | <b>S(SM)-UCP205-013D1</b>                                     | <b>C(CM)-UCP205-013D1</b>                         |                    |                |                |                |                |                   |       |       |
| P205D1            | <b>S(SM)-UCP205-014D1</b>                                     | <b>C(CM)-UCP205-014D1</b>                         | 9/32               | 7/16           | 2 1/4          | 3              | 2 3/4          | 1.8               | 2.0   | 2.4   |
| P205D1            | <b>S(SM)-UCP205-015D1</b>                                     | <b>C(CM)-UCP205-015D1</b>                         |                    |                |                |                |                |                   |       |       |
| P205D1            | <b>S(SM)-UCP205-100D1</b>                                     | <b>C(CM)-UCP205-100D1</b>                         |                    |                |                |                |                |                   |       |       |
| P206D1            | <b>S(SM)-UCP206D1</b>                                         | <b>C(CM)-UCP206D1</b>                             | 7                  | 11             | 62             | 88             | 75             | 1.4               | 1.4   | 1.7   |
| P206D1            | <b>S(SM)-UCP206-101D1</b>                                     | <b>C(CM)-UCP206-101D1</b>                         |                    |                |                |                |                |                   |       |       |
| P206D1            | <b>S(SM)-UCP206-102D1</b>                                     | <b>C(CM)-UCP206-102D1</b>                         | 9/32               | 7/16           | 2 7/16         | 3 15/32        | 2 15/16        | 3.1               | 3.1   | 3.8   |
| P206D1            | <b>S(SM)-UCP206-103D1</b>                                     | <b>C(CM)-UCP206-103D1</b>                         |                    |                |                |                |                |                   |       |       |
| P206D1            | <b>S(SM)-UCP206-104D1</b>                                     | <b>C(CM)-UCP206-104D1</b>                         |                    |                |                |                |                |                   |       |       |
| P207D1            | <b>S(SM)-UCP207D1</b>                                         | <b>C(CM)-UCP207D1</b>                             | 8                  | 10             | 72             | 99             | 80             | 1.6               | 1.7   | 2.0   |
| P207D1            | <b>S(SM)-UCP207-104D1</b>                                     | <b>C(CM)-UCP207-104D1</b>                         |                    |                |                |                |                |                   |       |       |
| P207D1            | <b>S(SM)-UCP207-105D1</b>                                     | <b>C(CM)-UCP207-105D1</b>                         | 5/16               | 25/64          | 2 27/32        | 3 29/32        | 3 5/32         | 3.5               | 3.7   | 4.4   |
| P207D1            | <b>S(SM)-UCP207-106D1</b>                                     | <b>C(CM)-UCP207-106D1</b>                         |                    |                |                |                |                |                   |       |       |
| P207D1            | <b>S(SM)-UCP207-107D1</b>                                     | <b>C(CM)-UCP207-107D1</b>                         |                    |                |                |                |                |                   |       |       |

# **Pillow blocks cast housing**

## **Set screw type**

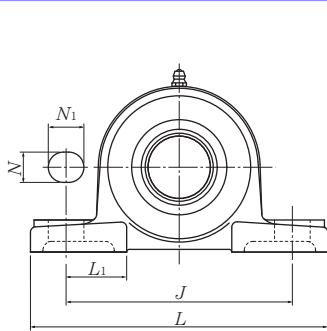


| Shaft<br>dia.                                                 | Unit number <sup>1)</sup>                                                                                   | Nominal dimensions           |            |           |          |          |                       |                       |                       |                       |                |               | Bolt<br>size | Bearing number                                                             |
|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------|------------|-----------|----------|----------|-----------------------|-----------------------|-----------------------|-----------------------|----------------|---------------|--------------|----------------------------------------------------------------------------|
|                                                               |                                                                                                             |                              |            |           |          |          |                       |                       |                       |                       |                |               |              |                                                                            |
|                                                               |                                                                                                             | mm                           |            |           |          |          | inch                  |                       |                       |                       |                |               |              |                                                                            |
| mm<br>inch                                                    |                                                                                                             | <i>H</i>                     | <i>L</i>   | <i>J</i>  | <i>A</i> | <i>N</i> | <i>N</i> <sub>1</sub> | <i>H</i> <sub>1</sub> | <i>H</i> <sub>2</sub> | <i>L</i> <sub>1</sub> | <i>B</i>       | <i>S</i>      | mm<br>inch   |                                                                            |
| <b>40</b><br><b>1½</b><br><b>1⅞</b>                           | <b>UCP208D1</b><br><b>UCP208-108D1</b><br><b>UCP208-109D1</b>                                               | 49.2<br>1⅕<br>1⅞             | 184<br>7¼  | 137<br>5⅓ | 54<br>2⅛ | 17<br>2⅓ | 20<br>2⅝              | 18<br>2⅔              | 98<br>3⅔              | 52<br>2⅓              | 49.2<br>1.9370 | 19<br>0.748   | M14<br>½     | <b>UC208D1</b><br>UC208-108D1<br>UC208-109D1                               |
| <b>45</b><br><b>1⅝</b><br><b>1⅞</b><br><b>1¾</b>              | <b>UCP209D1</b><br><b>UCP209-110D1</b><br><b>UCP209-111D1</b><br><b>UCP209-112D1</b>                        | 54<br>2⅛<br>7⅕<br>5¾         | 190<br>7⅕  | 146<br>5¾ | 54<br>2⅛ | 17<br>2⅓ | 20<br>2⅝              | 20<br>2⅝              | 106<br>4⅜             | 60<br>2⅜              | 49.2<br>1.9370 | 19<br>0.748   | M14<br>½     | <b>UC209D1</b><br>UC209-110D1<br>UC209-111D1<br>UC209-112D1                |
| <b>50</b><br><b>1⅔</b><br><b>1⅞</b><br><b>1⅝</b><br><b>2</b>  | <b>UCP210D1</b><br><b>UCP210-113D1</b><br><b>UCP210-114D1</b><br><b>UCP210-115D1</b><br><b>UCP210-200D1</b> | 57.2<br>2¼<br>8⅛<br>6¼<br>2⅝ | 206<br>8⅛  | 159<br>6¼ | 60<br>2⅜ | 20<br>2⅝ | 23<br>2⅝              | 21<br>1⅜              | 114<br>4½             | 65<br>2⅞              | 51.6<br>2.0315 | 19<br>0.748   | M16<br>⅝     | <b>UC210D1</b><br>UC210-113D1<br>UC210-114D1<br>UC210-115D1<br>UC210-200D1 |
| <b>55</b><br><b>2</b><br><b>2⅓</b><br><b>2⅞</b><br><b>2⅝</b>  | <b>UCP211D1</b><br><b>UCP211-200D1</b><br><b>UCP211-201D1</b><br><b>UCP211-202D1</b><br><b>UCP211-203D1</b> | 63.5<br>2½<br>8⅝<br>6⅔<br>2⅝ | 219<br>8⅝  | 171<br>6⅔ | 60<br>2⅜ | 20<br>2⅝ | 23<br>2⅝              | 23<br>2⅝              | 126<br>4⅜             | 65<br>2⅞              | 55.6<br>2.1890 | 22.2<br>0.874 | M16<br>⅝     | <b>UC211D1</b><br>UC211-200D1<br>UC211-201D1<br>UC211-202D1<br>UC211-203D1 |
| <b>60</b><br><b>2¼</b><br><b>2⅝</b><br><b>2⅜</b><br><b>2⅞</b> | <b>UCP212D1</b><br><b>UCP212-204D1</b><br><b>UCP212-205D1</b><br><b>UCP212-206D1</b><br><b>UCP212-207D1</b> | 69.8<br>2¾<br>9½<br>7¼<br>2¾ | 241<br>9½  | 184<br>7¼ | 70<br>2¾ | 20<br>2⅝ | 23<br>2⅝              | 25<br>3⅓              | 138<br>5⅞             | 70<br>2¾              | 65.1<br>2.5630 | 25.4<br>1.000 | M16<br>⅝     | <b>UC212D1</b><br>UC212-204D1<br>UC212-205D1<br>UC212-206D1<br>UC212-207D1 |
| <b>65</b><br><b>2½</b><br><b>2⅞</b>                           | <b>UCP213D1</b><br><b>UCP213-208D1</b><br><b>UCP213-209D1</b>                                               | 76.2<br>3<br>10⅞             | 265<br>10⅞ | 203<br>8  | 70<br>2¾ | 25<br>3⅓ | 28<br>1⅓              | 27<br>1⅞              | 151<br>5⅝             | 77<br>3⅓              | 65.1<br>2.5630 | 25.4<br>1.000 | M20<br>¾     | <b>UC213D1</b><br>UC213-208D1<br>UC213-209D1                               |

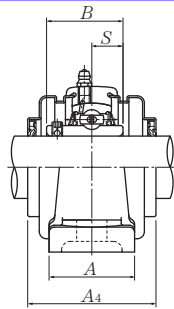
Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

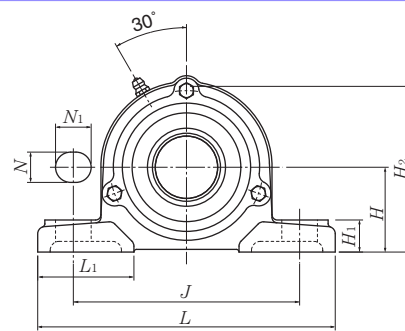




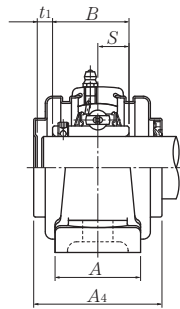
Press steel dust cover type (Open end)  
S-UCP...D1



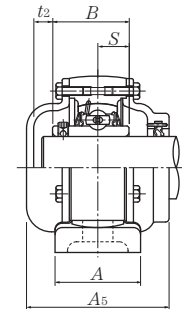
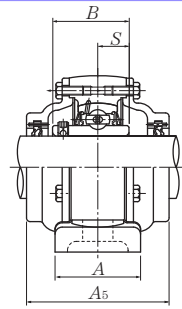
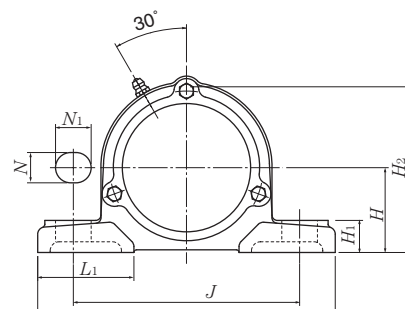
Cast dust cover type (Open end)  
C-UCP...D1



Press Steel dust cover type (Close end)  
SM-UCP...D1



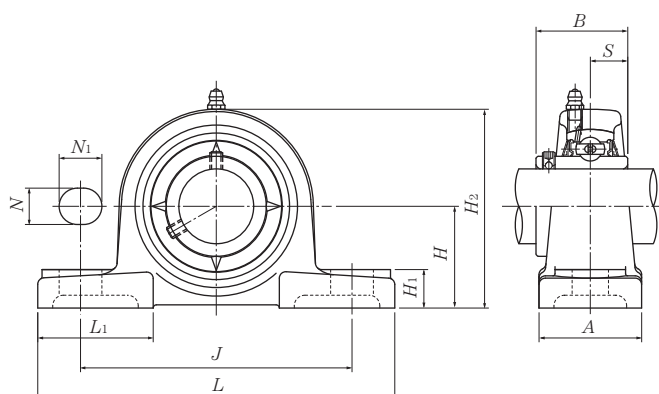
Cast dust cover type (Close end)  
CM-UCP...D1



| Housing<br>number | Unit number <sup>1)</sup><br>pressed steel dust<br>cover type | Unit number <sup>1)</sup><br>cast dust cover type | Nominal dimensions |                |                |                |                | Mass<br>(approx.) |       |       |
|-------------------|---------------------------------------------------------------|---------------------------------------------------|--------------------|----------------|----------------|----------------|----------------|-------------------|-------|-------|
|                   |                                                               |                                                   | mm                 |                | inch           |                |                | kg                |       | lb    |
|                   |                                                               |                                                   | t <sub>1</sub>     | t <sub>2</sub> | A <sub>4</sub> | H <sub>3</sub> | A <sub>5</sub> | UCP               | S(SM) | C(CM) |
| P208D1            | <b>S(SM)-UCP208D1</b>                                         | <b>C(CM)-UCP208D1</b>                             | 8                  | 9              | 82             | 105            | 90             | 1.9               | 2.1   | 2.7   |
| P208D1            | S(SM)-UCP208-108D1                                            | C(CM)-UCP208-108D1                                | 5/16               | 23/64          | 3 7/32         | 4 1/8          | 3 17/32        | 4.2               | 4.6   | 6.0   |
| P208D1            | S(SM)-UCP208-109D1                                            | C(CM)-UCP208-109D1                                |                    |                |                |                |                |                   |       |       |
| P209D1            | <b>S(SM)-UCP209D1</b>                                         | <b>C(CM)-UCP209D1</b>                             | 8                  | 12             | 82             | 113            | 95             | 2.2               | 2.4   | 3.1   |
| P209D1            | S(SM)-UCP209-110D1                                            | C(CM)-UCP209-110D1                                |                    |                |                |                |                |                   |       |       |
| P209D1            | S(SM)-UCP209-111D1                                            | C(CM)-UCP209-111D1                                | 5/16               | 15/32          | 3 7/32         | 4 7/16         | 3 3/4          | 4.9               | 5.3   | 6.8   |
| P209D1            | S(SM)-UCP209-112D1                                            | C(CM)-UCP209-112D1                                |                    |                |                |                |                |                   |       |       |
| P210D1            | <b>S(SM)-UCP210D1</b>                                         | <b>C(CM)-UCP210D1</b>                             | 8                  | 12             | 87             | 119            | 100            | 2.7               | 2.8   | 3.6   |
| P210D1            | S(SM)-UCP210-113D1                                            | C(CM)-UCP210-113D1                                |                    |                |                |                |                |                   |       |       |
| P210D1            | S(SM)-UCP210-114D1                                            | C(CM)-UCP210-114D1                                | 5/16               | 15/32          | 3 7/16         | 4 11/16        | 3 15/16        | 6.0               | 6.2   | 7.9   |
| P210D1            | S(SM)-UCP210-115D1                                            | C(CM)-UCP210-115D1                                |                    |                |                |                |                |                   |       |       |
| P210D1            | S(SM)-UCP210-200D1                                            | C(CM)-UCP210-200D1                                |                    |                |                |                |                |                   |       |       |
| P211D1            | <b>S(SM)-UCP211D1</b>                                         | <b>C(CM)-UCP211D1</b>                             | 10                 | 11             | 92             | 130            | 100            | 3.5               | 3.5   | 4.4   |
| P211D1            | S(SM)-UCP211-200D1                                            | C(CM)-UCP211-200D1                                |                    |                |                |                |                |                   |       |       |
| P211D1            | S(SM)-UCP211-201D1                                            | C(CM)-UCP211-201D1                                | 25/64              | 7/16           | 3 5/8          | 5 1/8          | 3 15/16        | 7.7               | 7.7   | 9.7   |
| P211D1            | S(SM)-UCP211-202D1                                            | C(CM)-UCP211-202D1                                |                    |                |                |                |                |                   |       |       |
| P211D1            | S(SM)-UCP211-203D1                                            | C(CM)-UCP211-203D1                                |                    |                |                |                |                |                   |       |       |
| P212D1            | <b>S(SM)-UCP212D1</b>                                         | <b>C(CM)-UCP212D1</b>                             | 8                  | 12             | 102            | 143            | 115            | 4.7               | 5.0   | 6.0   |
| P212D1            | S(SM)-UCP212-204D1                                            | C(CM)-UCP212-204D1                                |                    |                |                |                |                |                   |       |       |
| P212D1            | S(SM)-UCP212-205D1                                            | C(CM)-UCP212-205D1                                | 5/16               | 15/32          | 4 1/32         | 5 5/8          | 4 17/32        | 10                | 11    | 13    |
| P212D1            | S(SM)-UCP212-206D1                                            | C(CM)-UCP212-206D1                                |                    |                |                |                |                |                   |       |       |
| P212D1            | S(SM)-UCP212-207D1                                            | C(CM)-UCP212-207D1                                |                    |                |                |                |                |                   |       |       |
| P213D1            | <b>S(SM)-UCP213D1</b>                                         | <b>C(CM)-UCP213D1</b>                             | 11                 | 15             | 107            | 155            | 120            | 5.6               | 5.8   | 7.2   |
| P213D1            | S(SM)-UCP213-208D1                                            | C(CM)-UCP211-208D1                                | 7/16               | 19/32          | 4 7/32         | 6 3/32         | 4 23/32        | 12                | 13    | 16    |
| P213D1            | S(SM)-UCP213-209D1                                            | C(CM)-UCP213-209D1                                |                    |                |                |                |                |                   |       |       |



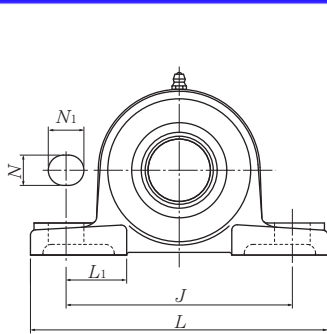
# Pillow blocks cast housing Set screw type



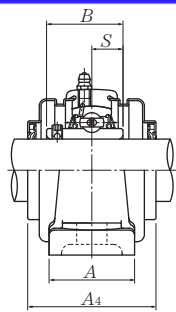
| Shaft<br>dia.                                                                                                         | Unit number <sup>1)</sup>                                                                                   | Nominal dimensions |          |          |          |          |                       |                       |                       |                       |          |          | Bolt<br>size | Bearing number                                                      |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------|----------|----------|----------|----------|-----------------------|-----------------------|-----------------------|-----------------------|----------|----------|--------------|---------------------------------------------------------------------|
|                                                                                                                       |                                                                                                             | mm                 |          |          |          |          | inch                  |                       |                       |                       |          |          |              |                                                                     |
|                                                                                                                       |                                                                                                             | <i>H</i>           | <i>L</i> | <i>J</i> | <i>A</i> | <i>N</i> | <i>N</i> <sub>1</sub> | <i>H</i> <sub>1</sub> | <i>H</i> <sub>2</sub> | <i>L</i> <sub>1</sub> | <i>B</i> | <i>S</i> |              |                                                                     |
| <b>70</b><br>2 <sup>5</sup> / <sub>8</sub><br>2 <sup>11</sup> / <sub>16</sub><br>2 <sup>3</sup> / <sub>4</sub>        | <b>UCP214D1</b><br><b>UCP214-210D1</b><br><b>UCP214-211D1</b><br><b>UCP214-212D1</b>                        | 79.4               | 266      | 210      | 72       | 25       | 28                    | 27                    | 157                   | 77                    | 74.6     | 30.2     | M20          | UC214D1<br>UC214-210D1<br>UC214-211D1<br>UC214-212D1                |
| <b>75</b><br>2 <sup>13</sup> / <sub>16</sub><br>2 <sup>7</sup> / <sub>8</sub><br>2 <sup>15</sup> / <sub>16</sub><br>3 | <b>UCP215D1</b><br><b>UCP215-213D1</b><br><b>UCP215-214D1</b><br><b>UCP215-215D1</b><br><b>UCP215-300D1</b> | 82.6               | 275      | 217      | 74       | 25       | 28                    | 28                    | 163                   | 80                    | 77.8     | 33.3     | M20          | UC215D1<br>UC215-213D1<br>UC215-214D1<br>UC215-215D1<br>UC215-300D1 |
| <b>80</b><br>3 <sup>1</sup> / <sub>16</sub><br>3 <sup>3</sup> / <sub>8</sub><br>3 <sup>3</sup> / <sub>16</sub>        | <b>UCP216D1</b><br><b>UCP216-301D1</b><br><b>UCP216-302D1</b><br><b>UCP216-303D1</b>                        | 88.9               | 292      | 232      | 78       | 25       | 28                    | 30                    | 175                   | 85                    | 82.6     | 33.3     | M20          | UC216D1<br>UC216-301D1<br>UC216-302D1<br>UC216-303D1                |
| <b>85</b><br>3 <sup>1</sup> / <sub>4</sub><br>3 <sup>5</sup> / <sub>16</sub><br>3 <sup>7</sup> / <sub>16</sub>        | <b>UCP217D1</b><br><b>UCP217-304D1</b><br><b>UCP217-305D1</b><br><b>UCP217-307D1</b>                        | 95.2               | 310      | 247      | 83       | 25       | 28                    | 32                    | 187                   | 85                    | 85.7     | 34.1     | M20          | UC217D1<br>UC217-304D1<br>UC217-305D1<br>UC217-307D1                |
| <b>90</b><br>3 <sup>1</sup> / <sub>2</sub>                                                                            | <b>UCP218D1</b><br><b>UCP218-308D1</b>                                                                      | 101.6              | 327      | 262      | 88       | 27       | 30                    | 33                    | 200                   | 90                    | 96       | 39.7     | M22          | UC218D1<br>UC218-308D1                                              |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

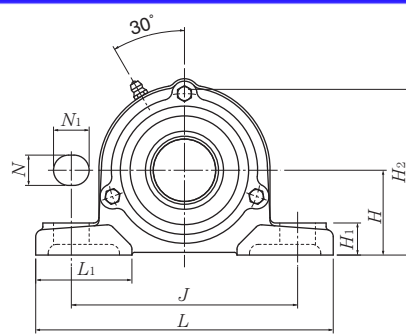
Note: Please refer to page 36 for size of grease fitting.



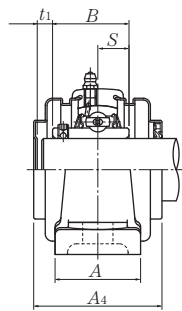
Press steel dust cover type (Open end)  
S-UCP...D1



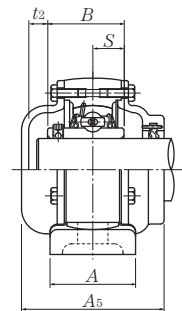
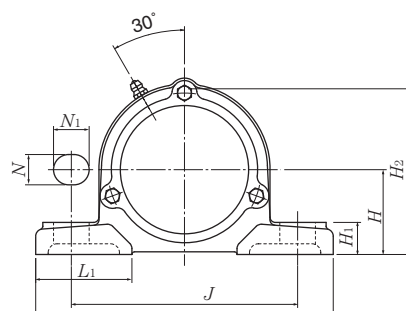
Cast dust cover type (Open end)  
C-UCP...D1



Press Steel dust cover type (Close end)  
SM-UCP...D1

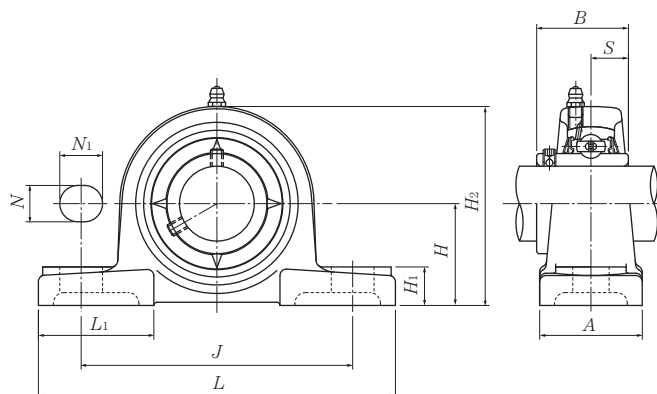


Cast dust cover type (Close end)  
CM-UCP...D1



| Housing<br>number | Unit number <sup>1)</sup><br>pressed steel dust<br>cover type | Unit number <sup>1)</sup><br>cast dust cover type | Nominal dimensions |                                 |                |                                 |                                 | Mass<br>(approx.) |       |       |
|-------------------|---------------------------------------------------------------|---------------------------------------------------|--------------------|---------------------------------|----------------|---------------------------------|---------------------------------|-------------------|-------|-------|
|                   |                                                               |                                                   | mm                 |                                 | inch           |                                 |                                 | kg                |       | lb    |
|                   |                                                               |                                                   | t <sub>1</sub>     | t <sub>2</sub>                  | A <sub>4</sub> | H <sub>3</sub>                  | A <sub>5</sub>                  | UCP               | S(SM) | C(CM) |
| P214D1            | —                                                             | <b>C(CM)-UCP214D1</b>                             | —                  | 17                              | —              | 162                             | 135                             | 6.5               | —     | 8.3   |
| P214D1            | —                                                             | <b>C(CM)-UCP214-210D1</b>                         | —                  | 21 <sup>3</sup> / <sub>32</sub> | —              | 6 <sup>3</sup> / <sub>8</sub>   | 5 <sup>5</sup> / <sub>16</sub>  | 14                | —     | 18    |
| P215D1            | —                                                             | <b>C(CM)-UCP215D1</b>                             | —                  | 17                              | —              | 168                             | 135                             | 7.2               | —     | 9.3   |
| P215D1            | —                                                             | <b>C(CM)-UCP215-213D1</b>                         | —                  | 21 <sup>3</sup> / <sub>32</sub> | —              | 6 <sup>5</sup> / <sub>8</sub>   | 5 <sup>5</sup> / <sub>16</sub>  | 16                | —     | 21    |
| P216D1            | —                                                             | <b>C(CM)-UCP216D1</b>                             | —                  | 17                              | —              | 181                             | 145                             | 8.7               | —     | 11    |
| P216D1            | —                                                             | <b>C(CM)-UCP216-301D1</b>                         | —                  | 21 <sup>3</sup> / <sub>32</sub> | —              | 7 <sup>1</sup> / <sub>8</sub>   | 5 <sup>23</sup> / <sub>32</sub> | 19                | —     | 24    |
| P217D1            | —                                                             | <b>C(CM)-UCP217D1</b>                             | —                  | 19                              | —              | 191                             | 155                             | 11                | —     | 13    |
| P217D1            | —                                                             | <b>C(CM)-UCP217-304D1</b>                         | —                  | 3 <sup>3</sup> / <sub>4</sub>   | —              | 7 <sup>17</sup> / <sub>32</sub> | 6 <sup>3</sup> / <sub>32</sub>  | 24                | —     | 29    |
| P218D1            | —                                                             | <b>C(CM)-UCP218D1</b>                             | —                  | 20                              | —              | 204                             | 165                             | 13                | —     | 16    |
| P218D1            | —                                                             | <b>C(CM) UCP218-308D1</b>                         | —                  | 25 <sup>3</sup> / <sub>32</sub> | —              | 8 <sup>1</sup> / <sub>32</sub>  | 6 <sup>1</sup> / <sub>2</sub>   | 29                | —     | 35    |

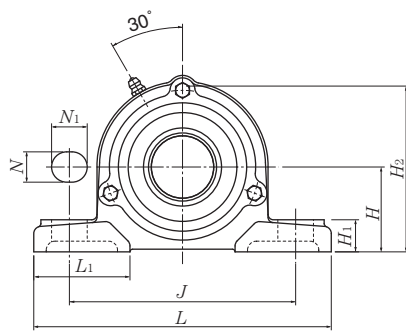
# Pillow blocks cast housing Set screw type



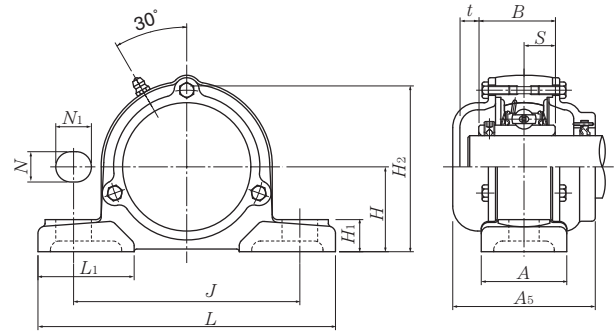
| Shaft<br>dia.                                                                                                                            | Unit number <sup>1)</sup>                                                | Nominal dimensions |          |          |          |          |                       |                       |                       |                       |          |          | Bolt<br>size | Bearing number                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------|----------|----------|----------|----------|-----------------------|-----------------------|-----------------------|-----------------------|----------|----------|--------------|---------------------------------------------------------------------|
|                                                                                                                                          |                                                                          | mm                 |          |          |          |          | inch                  |                       |                       |                       |          |          |              |                                                                     |
|                                                                                                                                          |                                                                          | <i>H</i>           | <i>L</i> | <i>J</i> | <i>A</i> | <i>N</i> | <i>N</i> <sub>1</sub> | <i>H</i> <sub>1</sub> | <i>H</i> <sub>2</sub> | <i>L</i> <sub>1</sub> | <i>B</i> | <i>S</i> |              |                                                                     |
| 25<br>1 <sup>13</sup> / <sub>16</sub><br>7 <sup>7</sup> / <sub>8</sub><br>15 <sup>15</sup> / <sub>16</sub><br>1                          | UCP305D1<br>UCP305-013D1<br>UCP305-014D1<br>UCP305-015D1<br>UCP305-100D1 | 45                 | 175      | 132      | 45       | 17       | 20                    | 15                    | 85                    | 54                    | 38       | 15       | M14          | UC305D1<br>UC305-013D1<br>UC305-014D1<br>UC305-015D1<br>UC305-100D1 |
| 30<br>1 <sup>1</sup> / <sub>16</sub><br>1 <sup>1</sup> / <sub>8</sub><br>1 <sup>3</sup> / <sub>16</sub>                                  | UCP306D1<br>UCP306-101D1<br>UCP306-102D1<br>UCP306-103D1                 | 50                 | 180      | 140      | 50       | 17       | 20                    | 18                    | 95                    | 54                    | 43       | 17       | M14          | UC306D1<br>UC306-101D1<br>UC306-102D1<br>UC306-103D1                |
| 35<br>1 <sup>1</sup> / <sub>4</sub><br>1 <sup>5</sup> / <sub>16</sub><br>1 <sup>3</sup> / <sub>8</sub><br>1 <sup>7</sup> / <sub>16</sub> | UCP307D1<br>UCP307-104D1<br>UCP307-105D1<br>UCP307-106D1<br>UCP307-107D1 | 56                 | 210      | 160      | 56       | 17       | 25                    | 20                    | 106                   | 60                    | 48       | 19       | M14          | UC307D1<br>UC307-104D1<br>UC307-105D1<br>UC307-106D1<br>UC307-107D1 |
| 40<br>1 <sup>1</sup> / <sub>2</sub><br>1 <sup>9</sup> / <sub>16</sub>                                                                    | UCP308D1<br>UCP308-108D1<br>UCP308-109D1                                 | 60                 | 220      | 170      | 60       | 17       | 27                    | 22                    | 116                   | 60                    | 52       | 19       | M14          | UC308D1<br>UC308-108D1<br>UC308-109D1                               |
| 45<br>1 <sup>5</sup> / <sub>8</sub><br>1 <sup>11</sup> / <sub>16</sub><br>1 <sup>3</sup> / <sub>4</sub>                                  | UCP309D1<br>UCP309-110D1<br>UCP309-111D1<br>UCP309-112D1                 | 67                 | 245      | 190      | 67       | 20       | 30                    | 24                    | 129                   | 65                    | 57       | 22       | M16          | UC309D1<br>UC309-110D1<br>UC309-111D1<br>UC309-112D1                |
| 50<br>1 <sup>13</sup> / <sub>16</sub><br>1 <sup>1</sup> / <sub>8</sub><br>1 <sup>15</sup> / <sub>16</sub>                                | UCP310D1<br>UCP310-113D1<br>UCP310-114D1<br>UCP310-115D1                 | 75                 | 275      | 212      | 75       | 20       | 35                    | 27                    | 143                   | 75                    | 61       | 22       | M16          | UC310D1<br>UC310-113D1<br>UC310-114D1<br>UC310-115D1                |
| 55<br>2<br>2 <sup>1</sup> / <sub>16</sub><br>2 <sup>1</sup> / <sub>8</sub><br>2 <sup>3</sup> / <sub>16</sub>                             | UCP311D1<br>UCP311-200D1<br>UCP311-201D1<br>UCP311-202D1<br>UCP311-203D1 | 80                 | 310      | 236      | 80       | 20       | 38                    | 30                    | 154                   | 85                    | 66       | 25       | M16          | UC311D1<br>UC311-200D1<br>UC311-201D1<br>UC311-202D1<br>UC311-203D1 |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.



Cast dust cover type (Open end)  
C-UCP...D1

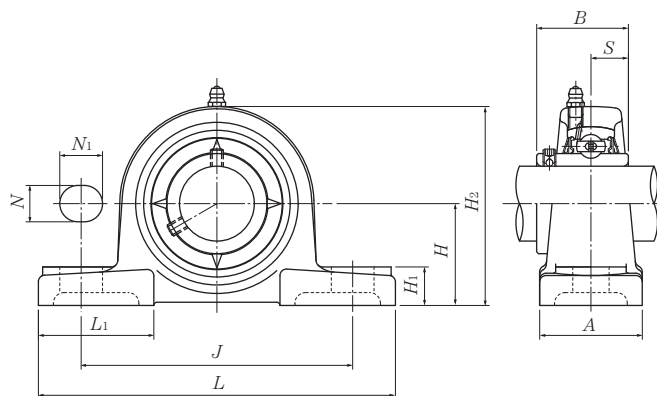


Cast dust cover type (Close end)  
CM-UCP...D1

| Housing<br>number <sup>1)</sup> | Unit number <sup>1)</sup><br>cast dust cover type | Nominal dimensions               |                                 |                                 | Mass<br>(approx.) |       |
|---------------------------------|---------------------------------------------------|----------------------------------|---------------------------------|---------------------------------|-------------------|-------|
|                                 |                                                   | mm                               | inch                            |                                 | kg                | lb    |
|                                 |                                                   | t                                | H <sub>3</sub>                  | A <sub>5</sub>                  | UCP               | C(CM) |
| P305D1                          | <b>C(CM)-UCP305D1</b>                             | 12                               | 91                              | 80                              | 1.4               | 1.8   |
| P305D1                          | <b>C(CM)-UCP305-013D1</b>                         |                                  |                                 |                                 |                   |       |
| P305D1                          | <b>C(CM)-UCP305-014D1</b>                         | 15 <sup>5</sup> / <sub>32</sub>  | 3 <sup>19</sup> / <sub>32</sub> | 3 <sup>5</sup> / <sub>32</sub>  | 3.1               | 4.0   |
| P305D1                          | <b>C(CM)-UCP305-015D1</b>                         |                                  |                                 |                                 |                   |       |
| P305D1                          | <b>C(CM)-UCP305-100D1</b>                         |                                  |                                 |                                 |                   |       |
| P306D1                          | <b>C(CM)-UCP306D1</b>                             | 11                               | 105                             | 85                              | 1.8               | 2.5   |
| P306D1                          | <b>C(CM)-UCP306-101D1</b>                         |                                  |                                 |                                 |                   |       |
| P306D1                          | <b>C(CM)-UCP306-102D1</b>                         | 7 <sup>7</sup> / <sub>16</sub>   | 4 <sup>1</sup> / <sub>8</sub>   | 3 <sup>11</sup> / <sub>32</sub> | 4.0               | 5.5   |
| P306D1                          | <b>C(CM)-UCP306-103D1</b>                         |                                  |                                 |                                 |                   |       |
| P307D1                          | <b>C(CM)-UCP307D1</b>                             | 13                               | 115                             | 95                              | 2.5               | 3.2   |
| P307D1                          | <b>C(CM)-UCP307-104D1</b>                         |                                  |                                 |                                 |                   |       |
| P307D1                          | <b>C(CM)-UCP307-105D1</b>                         | 33 <sup>3</sup> / <sub>64</sub>  | 4 <sup>17</sup> / <sub>32</sub> | 3 <sup>3</sup> / <sub>4</sub>   | 5.5               | 7.1   |
| P307D1                          | <b>C(CM)-UCP307-106D1</b>                         |                                  |                                 |                                 |                   |       |
| P307D1                          | <b>C(CM)-UCP307-107D1</b>                         |                                  |                                 |                                 |                   |       |
| P308D1                          | <b>C(CM)-UCP308D1</b>                             | 13                               | 125                             | 105                             | 3.1               | 4.0   |
| P308D1                          | <b>C(CM)-UCP308-108D1</b>                         | 33 <sup>3</sup> / <sub>64</sub>  | 4 <sup>29</sup> / <sub>32</sub> | 4 <sup>1</sup> / <sub>8</sub>   | 6.8               | 8.8   |
| P308D1                          | <b>C(CM)-UCP308-109D1</b>                         |                                  |                                 |                                 |                   |       |
| P309D1                          | <b>C(CM)-UCP309D1</b>                             | 14                               | 140                             | 110                             | 4.1               | 5.4   |
| P309D1                          | <b>C(CM)-UCP309-110D1</b>                         |                                  |                                 |                                 |                   |       |
| P309D1                          | <b>C(CM)-UCP309-111D1</b>                         | 35 <sup>5</sup> / <sub>64</sub>  | 5 <sup>1</sup> / <sub>2</sub>   | 4 <sup>11</sup> / <sub>32</sub> | 9.0               | 12    |
| P309D1                          | <b>C(CM)-UCP309-112D1</b>                         |                                  |                                 |                                 |                   |       |
| P310D1                          | <b>C(CM)-UCP310D1</b>                             | 15                               | 156                             | 120                             | 5.6               | 7.0   |
| P310D1                          | <b>C(CM)-UCP310-113D1</b>                         |                                  |                                 |                                 |                   |       |
| P310D1                          | <b>C(CM)-UCP310-114D1</b>                         | 19 <sup>19</sup> / <sub>32</sub> | 6 <sup>5</sup> / <sub>32</sub>  | 4 <sup>23</sup> / <sub>32</sub> | 12                | 15    |
| P310D1                          | <b>C(CM)-UCP310-115D1</b>                         |                                  |                                 |                                 |                   |       |
| P311D1                          | <b>C(CM)-UCP311D1</b>                             | 15                               | 166                             | 125                             | 7.3               | 8.8   |
| P311D1                          | <b>C(CM)-UCP311-200D1</b>                         |                                  |                                 |                                 |                   |       |
| P311D1                          | <b>C(CM)-UCP311-201D1</b>                         | 19 <sup>19</sup> / <sub>32</sub> | 6 <sup>17</sup> / <sub>32</sub> | 4 <sup>29</sup> / <sub>32</sub> | 16                | 19    |
| P311D1                          | <b>C(CM)-UCP311-202D1</b>                         |                                  |                                 |                                 |                   |       |
| P311D1                          | <b>C(CM)-UCP311-203D1</b>                         |                                  |                                 |                                 |                   |       |

# **Pillow blocks cast housing**

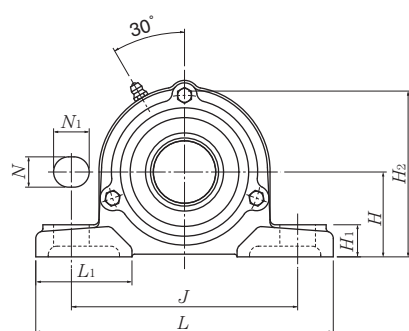
## **Set screw type**



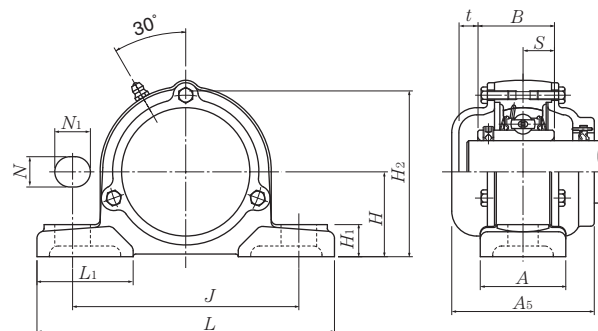
| Shaft<br>dia.                                                                                                                                                   | Unit number <sup>1)</sup>                                                                                   | Nominal dimensions              |                                  |                                  |                                 |                                 |                                 |                                 |                                 |                                 |          |          | Bolt<br>size                  | Bearing number                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------------------|----------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|----------|----------|-------------------------------|----------------------------------------------------------------------------|
|                                                                                                                                                                 |                                                                                                             | mm                              |                                  |                                  |                                 |                                 | inch                            |                                 |                                 |                                 |          |          |                               |                                                                            |
|                                                                                                                                                                 |                                                                                                             | <i>H</i>                        | <i>L</i>                         | <i>J</i>                         | <i>A</i>                        | <i>N</i>                        | <i>N</i> <sub>1</sub>           | <i>H</i> <sub>1</sub>           | <i>H</i> <sub>2</sub>           | <i>L</i> <sub>1</sub>           | <i>B</i> | <i>S</i> |                               |                                                                            |
| <b>60</b><br><b>2<sup>1</sup>/<sub>4</sub></b><br><b>2<sup>5</sup>/<sub>16</sub></b><br><b>2<sup>3</sup>/<sub>8</sub></b><br><b>2<sup>7</sup>/<sub>16</sub></b> | <b>UCP312D1</b><br><b>UCP312-204D1</b><br><b>UCP312-205D1</b><br><b>UCP312-206D1</b><br><b>UCP312-207D1</b> | 85                              | 330                              | 250                              | 85                              | 25                              | 38                              | 32                              | 165                             | 95                              | 71       | 26       | M20                           | <b>UC312D1</b><br>UC312-204D1<br>UC312-205D1<br>UC312-206D1<br>UC312-207D1 |
|                                                                                                                                                                 |                                                                                                             | 3 <sup>11</sup> / <sub>32</sub> | 13                               | 9 <sup>27</sup> / <sub>32</sub>  | 3 <sup>11</sup> / <sub>32</sub> | 3 <sup>1</sup> / <sub>32</sub>  | 1 <sup>1</sup> / <sub>2</sub>   | 1 <sup>1</sup> / <sub>4</sub>   | 6 <sup>1</sup> / <sub>2</sub>   | 3 <sup>3</sup> / <sub>4</sub>   | 2.7953   | 1.024    | <sup>3</sup> / <sub>4</sub>   |                                                                            |
| <b>65</b><br><b>2<sup>1</sup>/<sub>2</sub></b><br><b>2<sup>9</sup>/<sub>16</sub></b>                                                                            | <b>UCP313D1</b><br><b>UCP313-208D1</b><br><b>UCP313-209D1</b>                                               | 90                              | 340                              | 260                              | 90                              | 25                              | 38                              | 33                              | 176                             | 105                             | 75       | 30       | M20                           | <b>UC313D1</b><br>UC313-208D1<br>UC313-209D1                               |
|                                                                                                                                                                 |                                                                                                             | 3 <sup>35</sup> / <sub>64</sub> | 13 <sup>3</sup> / <sub>8</sub>   | 10 <sup>1</sup> / <sub>4</sub>   | 3 <sup>17</sup> / <sub>32</sub> | 3 <sup>1</sup> / <sub>32</sub>  | 1 <sup>1</sup> / <sub>2</sub>   | 1 <sup>5</sup> / <sub>16</sub>  | 6 <sup>15</sup> / <sub>16</sub> | 4 <sup>1</sup> / <sub>8</sub>   | 2.9528   | 1.181    | <sup>3</sup> / <sub>4</sub>   |                                                                            |
| <b>70</b><br><b>2<sup>5</sup>/<sub>8</sub></b><br><b>2<sup>11</sup>/<sub>16</sub></b><br><b>2<sup>3</sup>/<sub>4</sub></b>                                      | <b>UCP314D1</b><br><b>UCP314-210D1</b><br><b>UCP314-211D1</b><br><b>UCP314-212D1</b>                        | 95                              | 360                              | 280                              | 90                              | 27                              | 40                              | 35                              | 187                             | 105                             | 78       | 33       | M22                           | <b>UC314D1</b><br>UC314-210D1<br>UC314-211D1<br>UC314-212D1                |
|                                                                                                                                                                 |                                                                                                             | 3 <sup>47</sup> / <sub>64</sub> | 14 <sup>3</sup> / <sub>16</sub>  | 11 <sup>1</sup> / <sub>32</sub>  | 3 <sup>17</sup> / <sub>32</sub> | 1 <sup>1</sup> / <sub>16</sub>  | 1 <sup>9</sup> / <sub>16</sub>  | 1 <sup>3</sup> / <sub>8</sub>   | 7 <sup>3</sup> / <sub>8</sub>   | 4 <sup>1</sup> / <sub>8</sub>   | 3.0709   | 1.299    | <sup>7</sup> / <sub>8</sub>   |                                                                            |
| <b>75</b><br><b>2<sup>13</sup>/<sub>16</sub></b><br><b>2<sup>7</sup>/<sub>8</sub></b><br><b>2<sup>15</sup>/<sub>16</sub></b><br><b>3</b>                        | <b>UCP315D1</b><br><b>UCP315-213D1</b><br><b>UCP315-214D1</b><br><b>UCP315-215D1</b><br><b>UCP315-300D1</b> | 100                             | 380                              | 290                              | 100                             | 27                              | 40                              | 35                              | 198                             | 110                             | 82       | 32       | M22                           | <b>UC315D1</b><br>UC315-213D1<br>UC315-214D1<br>UC315-215D1<br>UC315-300D1 |
|                                                                                                                                                                 |                                                                                                             | 3 <sup>15</sup> / <sub>16</sub> | 14 <sup>31</sup> / <sub>32</sub> | 11 <sup>13</sup> / <sub>32</sub> | 3 <sup>15</sup> / <sub>16</sub> | 1 <sup>1</sup> / <sub>16</sub>  | 1 <sup>9</sup> / <sub>16</sub>  | 1 <sup>3</sup> / <sub>8</sub>   | 7 <sup>25</sup> / <sub>32</sub> | 4 <sup>11</sup> / <sub>32</sub> | 3.2283   | 1.260    | <sup>7</sup> / <sub>8</sub>   |                                                                            |
| <b>80</b><br><b>3<sup>1</sup>/<sub>16</sub></b><br><b>3<sup>1</sup>/<sub>8</sub></b><br><b>3<sup>3</sup>/<sub>16</sub></b>                                      | <b>UCP316D1</b><br><b>UCP316-301D1</b><br><b>UCP316-302D1</b><br><b>UCP316-303D1</b>                        | 106                             | 400                              | 300                              | 110                             | 27                              | 40                              | 40                              | 210                             | 110                             | 86       | 34       | M22                           | <b>UC316D1</b><br>UC316-301D1<br>UC316-302D1<br>UC316-303D1                |
|                                                                                                                                                                 |                                                                                                             | 4 <sup>11</sup> / <sub>64</sub> | 15 <sup>3</sup> / <sub>4</sub>   | 11 <sup>13</sup> / <sub>16</sub> | 4 <sup>11</sup> / <sub>32</sub> | 1 <sup>1</sup> / <sub>16</sub>  | 1 <sup>9</sup> / <sub>16</sub>  | 1 <sup>9</sup> / <sub>16</sub>  | 8 <sup>9</sup> / <sub>32</sub>  | 4 <sup>11</sup> / <sub>32</sub> | 3.3858   | 1.339    | <sup>7</sup> / <sub>8</sub>   |                                                                            |
| <b>85</b><br><b>3<sup>1</sup>/<sub>4</sub></b><br><b>3<sup>5</sup>/<sub>16</sub></b><br><b>3<sup>7</sup>/<sub>16</sub></b>                                      | <b>UCP317D1</b><br><b>UCP317-304D1</b><br><b>UCP317-305D1</b><br><b>UCP317-307D1</b>                        | 112                             | 420                              | 320                              | 110                             | 33                              | 45                              | 40                              | 220                             | 120                             | 96       | 40       | M27                           | <b>UC317D1</b><br>UC317-304D1<br>UC317-305D1<br>UC317-307D1                |
|                                                                                                                                                                 |                                                                                                             | 4 <sup>13</sup> / <sub>32</sub> | 16 <sup>17</sup> / <sub>32</sub> | 12 <sup>19</sup> / <sub>32</sub> | 4 <sup>11</sup> / <sub>32</sub> | 1 <sup>5</sup> / <sub>16</sub>  | 1 <sup>25</sup> / <sub>32</sub> | 1 <sup>9</sup> / <sub>16</sub>  | 8 <sup>21</sup> / <sub>32</sub> | 4 <sup>23</sup> / <sub>32</sub> | 3.7795   | 1.575    | 1                             |                                                                            |
| <b>90</b><br><b>3<sup>7</sup>/<sub>16</sub></b><br><b>3<sup>1</sup>/<sub>2</sub></b>                                                                            | <b>UCP318D1</b><br><b>UCP318-307D1</b><br><b>UCP318-308D1</b>                                               | 118                             | 430                              | 330                              | 110                             | 33                              | 45                              | 45                              | 235                             | 120                             | 96       | 40       | M27                           | <b>UC318D1</b><br>UC318-307D1<br>UC318-308D1                               |
|                                                                                                                                                                 |                                                                                                             | 4 <sup>41</sup> / <sub>64</sub> | 16 <sup>15</sup> / <sub>16</sub> | 13                               | 4 <sup>11</sup> / <sub>32</sub> | 1 <sup>5</sup> / <sub>16</sub>  | 1 <sup>25</sup> / <sub>32</sub> | 1 <sup>25</sup> / <sub>32</sub> | 9 <sup>1</sup> / <sub>4</sub>   | 4 <sup>23</sup> / <sub>32</sub> | 3.7795   | 1.575    | 1                             |                                                                            |
| <b>95</b><br><b>3<sup>5</sup>/<sub>8</sub></b><br><b>3<sup>11</sup>/<sub>16</sub></b><br><b>3<sup>3</sup>/<sub>4</sub></b>                                      | <b>UCP319D1</b><br><b>UCP319-310D1</b><br><b>UCP319-311D1</b><br><b>UCP319-312D1</b>                        | 125                             | 470                              | 360                              | 120                             | 36                              | 50                              | 45                              | 250                             | 125                             | 103      | 41       | M30                           | <b>UC319D1</b><br>UC319-310D1<br>UC319-311D1<br>UC319-312D1                |
|                                                                                                                                                                 |                                                                                                             | 4 <sup>59</sup> / <sub>64</sub> | 18 <sup>1</sup> / <sub>2</sub>   | 14 <sup>3</sup> / <sub>16</sub>  | 4 <sup>23</sup> / <sub>32</sub> | 1 <sup>13</sup> / <sub>32</sub> | 1 <sup>31</sup> / <sub>32</sub> | 1 <sup>25</sup> / <sub>32</sub> | 9 <sup>27</sup> / <sub>32</sub> | 4 <sup>29</sup> / <sub>32</sub> | 4.0551   | 1.614    | 1 <sup>1</sup> / <sub>8</sub> |                                                                            |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.



Cast dust cover type (Open end)  
C-UCP...D1

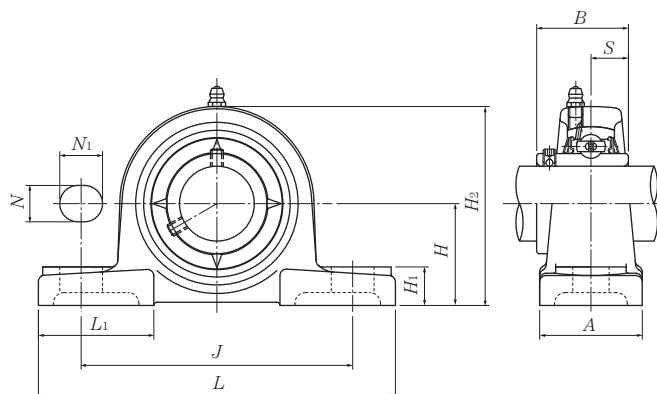


Cast dust cover type (Close end)  
CM-UCP...D1

| Housing<br>number <sup>1)</sup> | Unit number <sup>1)</sup><br>cast dust cover type | Nominal dimensions |                |                | Mass<br>(approx.) |       |
|---------------------------------|---------------------------------------------------|--------------------|----------------|----------------|-------------------|-------|
|                                 |                                                   | mm                 | inch           |                | kg                | lb    |
|                                 |                                                   | t                  | H <sub>3</sub> | A <sub>5</sub> | UCP               | C(CM) |
| P312D1                          | <b>C(CM)-UCP312D1</b>                             | 16                 | 179            | 135            | 9.4               | 11    |
| P312D1                          | <b>C(CM)-UCP312-204D1</b>                         |                    |                |                |                   |       |
| P312D1                          | <b>C(CM)-UCP312-205D1</b>                         | 5/8                | 7 1/16         | 5 5/16         | 21                | 24    |
| P312D1                          | <b>C(CM)-UCP312-206D1</b>                         |                    |                |                |                   |       |
| P312D1                          | <b>C(CM)-UCP312-207D1</b>                         |                    |                |                |                   |       |
| P313D1                          | <b>C(CM)-UCP313D1</b>                             | 19                 | 190            | 140            | 10                | 12    |
| P313D1                          | <b>C(CM)-UCP313-208D1</b>                         | 3/4                | 7 15/32        | 5 1/2          | 22                | 26    |
| P313D1                          | <b>C(CM)-UCP313-209D1</b>                         |                    |                |                |                   |       |
| P314D1                          | <b>C(CM)-UCP314D1</b>                             | 19                 | 200            | 140            | 12                | 14    |
| P314D1                          | <b>C(CM)-UCP314-210D1</b>                         |                    |                |                |                   |       |
| P314D1                          | <b>C(CM)-UCP314-211D1</b>                         | 3/4                | 7 7/8          | 5 1/2          | 26                | 31    |
| P314D1                          | <b>C(CM)-UCP314-212D1</b>                         |                    |                |                |                   |       |
| P315D1                          | <b>C(CM)-UCP315D1</b>                             | 19                 | 210            | 150            | 14                | 17    |
| P315D1                          | <b>C(CM)-UCP315-213D1</b>                         |                    |                |                |                   |       |
| P315D1                          | <b>C(CM)-UCP315-214D1</b>                         | 3/4                | 8 9/32         | 5 29/32        | 31                | 37    |
| P315D1                          | <b>C(CM)-UCP315-215D1</b>                         |                    |                |                |                   |       |
| P315D1                          | <b>C(CM)-UCP315-300D1</b>                         |                    |                |                |                   |       |
| P316D1                          | <b>C(CM)-UCP316D1</b>                             | 18                 | 221            | 155            | 17                | 21    |
| P316D1                          | <b>C(CM)-UCP316-301D1</b>                         |                    |                |                |                   |       |
| P316D1                          | <b>C(CM)-UCP316-302D1</b>                         | 23/32              | 8 11/16        | 6 3/32         | 37                | 46    |
| P316D1                          | <b>C(CM)-UCP316-303D1</b>                         |                    |                |                |                   |       |
| P317D1                          | <b>C(CM)-UCP317D1</b>                             | 21                 | 235            | 170            | 19                | 24    |
| P317D1                          | <b>C(CM)-UCP317-304D1</b>                         |                    |                |                |                   |       |
| P317D1                          | <b>C(CM)-UCP317-305D1</b>                         | 13/16              | 9 1/4          | 6 11/16        | 42                | 53    |
| P317D1                          | <b>C(CM)-UCP317-307D1</b>                         |                    |                |                |                   |       |
| P318D1                          | <b>C(CM)-UCP318D1</b>                             | 21                 | 246            | 170            | 22                | 27    |
| P318D1                          | <b>C(CM)-UCP318-307D1</b>                         | 13/16              | 9 11/16        | 6 11/16        | 49                | 60    |
| P318D1                          | <b>C(CM)-UCP318-308D1</b>                         |                    |                |                |                   |       |
| P319D1                          | <b>C(CM)-UCP319D1</b>                             | 20                 | 258            | 180            | 26                | 32    |
| P319D1                          | <b>C(CM)-UCP319-310D1</b>                         |                    |                |                |                   |       |
| P319D1                          | <b>C(CM)-UCP319-311D1</b>                         | 25/32              | 10 5/32        | 7 3/32         | 57                | 71    |
| P319D1                          | <b>C(CM)-UCP319-312D1</b>                         |                    |                |                |                   |       |

# **Pillow blocks cast housing**

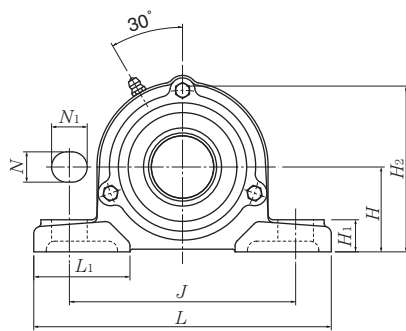
## **Set screw type**



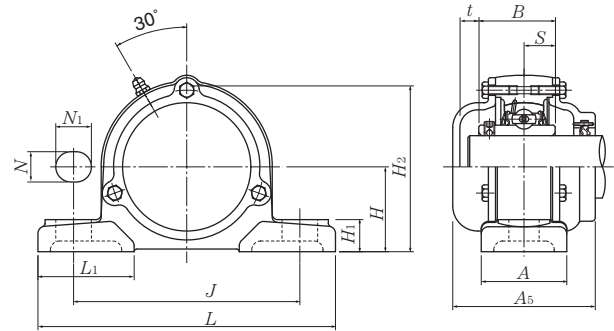
| Shaft<br>dia.                   | Unit number <sup>1)</sup> | Nominal dimensions |          |          |          |          |                       |                       |                       |                       |          |          |                               | Bolt<br>size | Bearing number |
|---------------------------------|---------------------------|--------------------|----------|----------|----------|----------|-----------------------|-----------------------|-----------------------|-----------------------|----------|----------|-------------------------------|--------------|----------------|
|                                 |                           | mm                 |          |          |          |          |                       | inch                  |                       |                       |          |          |                               |              |                |
|                                 |                           | <i>H</i>           | <i>L</i> | <i>J</i> | <i>A</i> | <i>N</i> | <i>N</i> <sub>1</sub> | <i>H</i> <sub>1</sub> | <i>H</i> <sub>2</sub> | <i>L</i> <sub>1</sub> | <i>B</i> | <i>S</i> |                               |              |                |
| <div>mm</div> <div>inch</div>   |                           |                    |          |          |          |          |                       |                       |                       |                       |          |          | <div>mm</div> <div>inch</div> |              |                |
| 100                             | UCP320D1                  | 140                | 490      | 380      | 120      | 36       | 50                    | 50                    | 275                   | 130                   | 108      | 42       | M30                           | UC320D1      |                |
| 3 <sup>13</sup> / <sub>16</sub> | UCP320-313D1              |                    |          |          |          |          |                       |                       |                       |                       |          |          |                               | UC320-313D1  |                |
| 3 <sup>7</sup> / <sub>8</sub>   | UCP320-314D1              |                    |          |          |          |          |                       |                       |                       |                       |          |          |                               | UC320-314D1  |                |
| 3 <sup>15</sup> / <sub>16</sub> | UCP320-315D1              |                    |          |          |          |          |                       |                       |                       |                       |          |          |                               | UC320-315D1  |                |
| 4                               | UCP320-400D1              |                    |          |          |          |          |                       |                       |                       |                       |          |          |                               | UC320-400D1  |                |
| 105                             | UCP321D1                  | 140                | 490      | 380      | 120      | 36       | 50                    | 50                    | 280                   | 130                   | 112      | 44       | M30                           | UC321D1      |                |
| 110                             | UCP322D1                  | 150                | 520      | 400      | 140      | 40       | 55                    | 55                    | 300                   | 135                   | 117      | 46       | M33                           | UC322D1      |                |
| 120                             | UCP324D1                  | 160                | 570      | 450      | 140      | 40       | 55                    | 65                    | 320                   | 140                   | 126      | 51       | M33                           | UC324D1      |                |
| 130                             | UCP326D1                  | 180                | 600      | 480      | 140      | 40       | 55                    | 75                    | 355                   | 140                   | 135      | 54       | M33                           | UC326D1      |                |
| 140                             | UCP328D1                  | 200                | 620      | 500      | 140      | 40       | 55                    | 75                    | 390                   | 140                   | 145      | 59       | M33                           | UC328D1      |                |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.



Cast dust cover type (Open end)  
C-UCP...D1



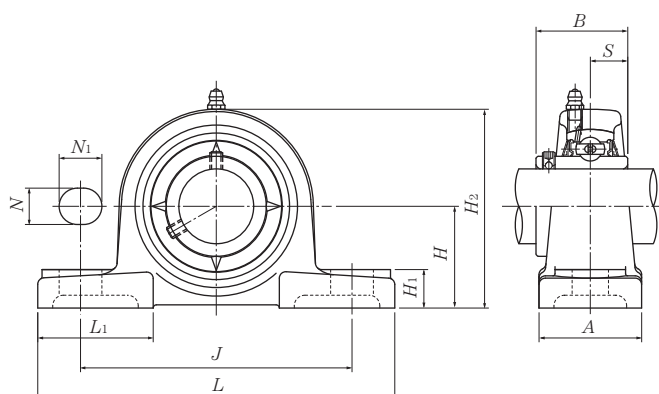
Cast dust cover type (Close end)  
CM-UCP...D1

| Housing<br>number <sup>1)</sup> | Unit number <sup>1)</sup><br>cast dust cover type | Nominal dimensions              |                                 |                                 | Mass<br>(approx.) |       |
|---------------------------------|---------------------------------------------------|---------------------------------|---------------------------------|---------------------------------|-------------------|-------|
|                                 |                                                   | mm                              | inch                            |                                 | kg                | lb    |
|                                 |                                                   | t                               | H <sub>3</sub>                  | A <sub>5</sub>                  | UCP               | C(CM) |
| P320D1                          | <b>C(CM)-UCP320D1</b>                             | 20                              | 283                             | 190                             | 33                | 39    |
| P320D1                          | <b>C(CM)-UCP320-313D1</b>                         |                                 |                                 |                                 |                   |       |
| P320D1                          | <b>C(CM)-UCP320-314D1</b>                         | 25 <sup>5</sup> / <sub>32</sub> | 11 <sup>5</sup> / <sub>32</sub> | 7 <sup>15</sup> / <sub>32</sub> | 73                | 86    |
| P320D1                          | <b>C(CM)-UCP320-315D1</b>                         |                                 |                                 |                                 |                   |       |
| P320D1                          | <b>C(CM)-UCP320-400D1</b>                         |                                 |                                 |                                 |                   |       |
| P321D1                          | <b>C(CM)-UCP321D1</b>                             | 20                              | 290                             | 195                             | 35                | 42    |
| P322D1                          | <b>C(CM)-UCP322D1</b>                             | 20                              | 313                             | 200                             | 43                | 52    |
| P324D1                          | <b>C(CM)-UCP324D1</b>                             | 22                              | 335                             | 215                             | 50                | 67    |
| P326D1                          | <b>C(CM)-UCP326D1</b>                             | 21                              | 375                             | 225                             | 69                | 83    |
| P328D1                          | <b>C(CM)-UCP328D1</b>                             | 21                              | 407                             | 235                             | 84                | 99    |



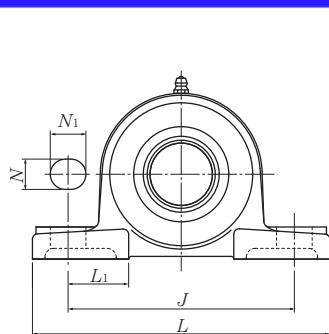
# Pillow blocks cast housing

## Set screw type

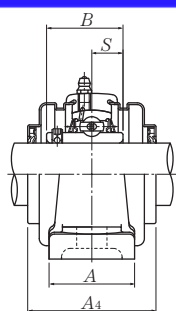


| Shaft<br>dia.                                                                         | Unit number <sup>1)</sup>                                                                                   | Nominal dimensions |          |          |          |          |                       |                       |                       |                       |          |            | Bolt<br>size | Bearing number                                                             |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------|----------|----------|----------|----------|-----------------------|-----------------------|-----------------------|-----------------------|----------|------------|--------------|----------------------------------------------------------------------------|
|                                                                                       |                                                                                                             |                    |          |          |          |          |                       |                       |                       |                       |          |            |              |                                                                            |
|                                                                                       |                                                                                                             | mm                 |          |          |          |          | inch                  |                       |                       |                       |          | mm<br>inch |              |                                                                            |
| mm<br>inch                                                                            |                                                                                                             | <i>H</i>           | <i>L</i> | <i>J</i> | <i>A</i> | <i>N</i> | <i>N</i> <sub>1</sub> | <i>H</i> <sub>1</sub> | <i>H</i> <sub>2</sub> | <i>L</i> <sub>1</sub> | <i>B</i> | <i>S</i>   |              |                                                                            |
| <b>25</b><br>$1\frac{3}{16}$<br>$\frac{7}{8}$<br>$1\frac{5}{16}$<br><b>1</b>          | <b>UCPX05D1</b><br><b>UCPX05-013D1</b><br><b>UCPX05-014D1</b><br><b>UCPX05-015D1</b><br><b>UCPX05-100D1</b> | 44.4               | 159      | 119      | 51       | 17       | 20                    | 18                    | 85                    | 50                    | 38.1     | 15.9       | M14          | <b>UCX05D1</b><br>UCX05-013D1<br>UCX05-014D1<br>UCX05-015D1<br>UCX05-100D1 |
| <b>30</b><br>$1\frac{1}{16}$<br>$1\frac{1}{8}$<br>$1\frac{3}{16}$<br>$1\frac{1}{4}$   | <b>UCPX06D1</b><br><b>UCPX06-101D1</b><br><b>UCPX06-102D1</b><br><b>UCPX06-103D1</b><br><b>UCPX06-104D1</b> | 47.6               | 175      | 127      | 57       | 17       | 20                    | 20                    | 93                    | 54                    | 42.9     | 17.5       | M14          | <b>UCX06D1</b><br>UCX06-101D1<br>UCX06-102D1<br>UCX06-103D1<br>UC207-104D1 |
| <b>35</b><br>$1\frac{5}{16}$<br>$1\frac{3}{8}$<br>$1\frac{7}{16}$                     | <b>UCPX07D1</b><br><b>UCPX07-105D1</b><br><b>UCPX07-106D1</b><br><b>UCPX07-107D1</b>                        | 54                 | 203      | 144      | 57       | 17       | 20                    | 21                    | 105                   | 60                    | 49.2     | 19         | M14          | <b>UCX07D1</b><br>UCX07-105D1<br>UCX07-106D1<br>UCX07-107D1                |
| <b>40</b><br>$1\frac{1}{2}$<br>$1\frac{9}{16}$                                        | <b>UCPX08D1</b><br><b>UCPX08-108D1</b><br><b>UCPX08-109D1</b>                                               | 58.7               | 222      | 156      | 67       | 20       | 23                    | 26                    | 111                   | 65                    | 49.2     | 19         | M16          | <b>UCX08D1</b><br>UCX08-108D1<br>UCX08-109D1                               |
| <b>45</b><br>$1\frac{5}{8}$<br>$1\frac{11}{16}$<br>$1\frac{3}{4}$<br>$1\frac{13}{16}$ | <b>UCPX09D1</b><br><b>UCPX09-110D1</b><br><b>UCPX09-111D1</b><br><b>UCPX09-112D1</b><br><b>UCPX09-113D1</b> | 58.7               | 222      | 156      | 67       | 20       | 23                    | 26                    | 116                   | 65                    | 51.6     | 19         | M16          | <b>UCX09D1</b><br>UCX09-110D1<br>UCX09-111D1<br>UCX09-112D1<br>UC210-113D1 |
| <b>50</b><br>$1\frac{7}{8}$<br>$1\frac{15}{16}$<br><b>2</b>                           | <b>UCPX10D1</b><br><b>UCPX10-114D1</b><br><b>UCPX10-115D1</b><br><b>UCPX10-200D1</b>                        | 63.5               | 241      | 171      | 73       | 20       | 23                    | 27                    | 126                   | 70                    | 55.6     | 22.2       | M16          | <b>UCX10D1</b><br>UCX10-114D1<br>UCX10-115D1<br>UC211-200D1                |

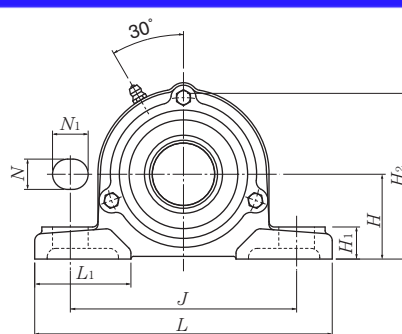
Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".  
Note: Please refer to page 36 for size of grease fitting.



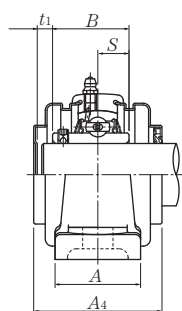
Press steel dust cover type (Open end)  
S-UCP...D1



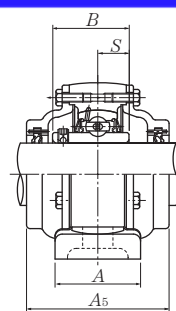
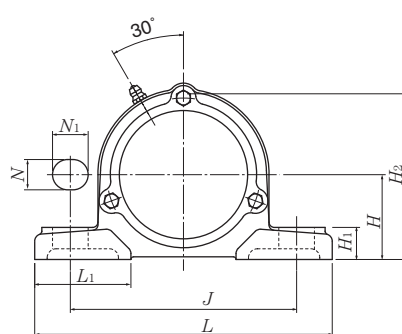
Cast dust cover type (Open end)  
C-UCP...D1



Press Steel dust cover type (Close end)  
SM-UCP...D1

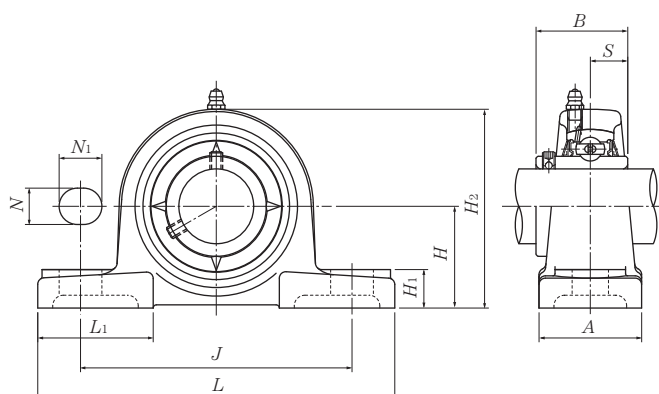


Cast dust cover type (Close end)  
CM-UCP...D1



| Housing<br>number | Unit number <sup>1)</sup><br>pressed steel dust<br>cover type | Unit number <sup>1)</sup><br>cast dust cover type | Nominal dimensions |                |                |                |                | Mass of unit<br>(approx.) |       |       |
|-------------------|---------------------------------------------------------------|---------------------------------------------------|--------------------|----------------|----------------|----------------|----------------|---------------------------|-------|-------|
|                   |                                                               |                                                   | mm                 |                | inch           |                |                | kg                        |       | lb    |
|                   |                                                               |                                                   | t <sub>1</sub>     | t <sub>2</sub> | A <sub>4</sub> | H <sub>3</sub> | A <sub>5</sub> | UCPX                      | S(SM) | C(CM) |
| PX05D1            | <b>S(SM)-UCPX05D1</b>                                         | <b>C(CM)-UCPX05D1</b>                             | 7                  | 11             | 62             | 89             | 75             | 1.4                       | 1.5   | 1.8   |
| PX05D1            | S(SM)-UCPX05-013D1                                            | C(CM)-UCPX05-013D1                                |                    |                |                |                |                |                           |       |       |
| PX05D1            | S(SM)-UCPX05-014D1                                            | C(CM)-UCPX05-014D1                                |                    |                |                |                |                |                           |       |       |
| PX05D1            | S(SM)-UCPX05-015D1                                            | C(CM)-UCPX05-015D1                                |                    |                |                |                |                |                           |       |       |
| PX05D1            | S(SM)-UCPX05-100D1                                            | C(CM)-UCPX05-100D1                                |                    |                |                |                |                |                           |       |       |
| PX06D1            | <b>S(SM)-UCPX06D1</b>                                         | <b>C(CM)-UCPX06D1</b>                             | 8                  | 10             | 72             | 99             | 80             | 1.9                       | 2.0   | 2.4   |
| PX06D1            | S(SM)-UCPX06-101D1                                            | C(CM)-UCPX06-101D1                                |                    |                |                |                |                |                           |       |       |
| PX06D1            | S(SM)-UCPX06-102D1                                            | C(CM)-UCPX06-102D1                                |                    |                |                |                |                |                           |       |       |
| PX06D1            | S(SM)-UCPX06-103D1                                            | C(CM)-UCPX06-103D1                                |                    |                |                |                |                |                           |       |       |
| PX06D1            | S(SM)-UCPX06-104D1                                            | C(CM)-UCPX06-104D1                                |                    |                |                |                |                |                           |       |       |
| PX07D1            | <b>S(SM)-UCPX07D1</b>                                         | <b>C(CM)-UCPX07D1</b>                             | 8                  | 9              | 82             | 110            | 90             | 2.4                       | 2.6   | 3.3   |
| PX07D1            | S(SM)-UCPX07-105D1                                            | C(CM)-UCPX07-105D1                                |                    |                |                |                |                |                           |       |       |
| PX07D1            | S(SM)-UCPX07-106D1                                            | C(CM)-UCPX07-106D1                                |                    |                |                |                |                |                           |       |       |
| PX07D1            | S(SM)-UCPX07-107D1                                            | C(CM)-UCPX07-107D1                                |                    |                |                |                |                |                           |       |       |
| PX08D1            | <b>S(SM)-UCPX08D1</b>                                         | <b>C(CM)-UCPX08D1</b>                             | 8                  | 12             | 82             | 118            | 95             | 2.9                       | 3.1   | 3.8   |
| PX08D1            | S(SM)-UCPX08-108D1                                            | C(CM)-UCPX08-108D1                                |                    |                |                |                |                |                           |       |       |
| PX08D1            | S(SM)-UCPX08-109D1                                            | C(CM)-UCPX08-109D1                                |                    |                |                |                |                |                           |       |       |
| PX09D1            | <b>S(SM)-UCPX09D1</b>                                         | <b>C(CM)-UCPX09D1</b>                             | 8                  | 12             | 87             | 120            | 100            | 3.2                       | 3.5   | 4.2   |
| PX09D1            | S(SM)-UCPX09-110D1                                            | C(CM)-UCPX09-110D1                                |                    |                |                |                |                |                           |       |       |
| PX09D1            | S(SM)-UCPX09-111D1                                            | C(CM)-UCPX09-111D1                                |                    |                |                |                |                |                           |       |       |
| PX09D1            | S(SM)-UCPX09-112D1                                            | C(CM)-UCPX09-112D1                                |                    |                |                |                |                |                           |       |       |
| PX09D1            | S(SM)-UCPX09-113D1                                            | C(CM)-UCPX09-113D1                                |                    |                |                |                |                |                           |       |       |
| PX10D1            | <b>S(SM)-UCPX10D1</b>                                         | <b>C(CM)-UCPX10D1</b>                             | 10                 | 11             | 92             | 130            | 100            | 4.1                       | 4.5   | 5.4   |
| PX10D1            | S(SM)-UCPX10-114D1                                            | C(CM)-UCPX10-114D1                                |                    |                |                |                |                |                           |       |       |
| PX10D1            | S(SM)-UCPX10-115D1                                            | C(CM)-UCPX10-115D1                                |                    |                |                |                |                |                           |       |       |
| PX10D1            | S(SM)-UCPX10-200D1                                            | C(CM)-UCPX10-200D1                                |                    |                |                |                |                |                           |       |       |

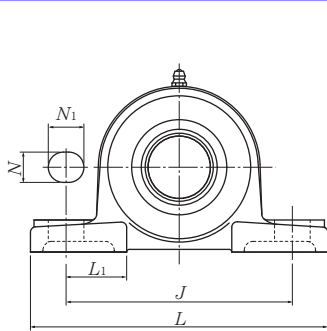
# Pillow blocks cast housing Set screw type



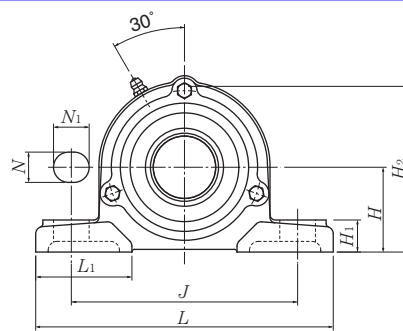
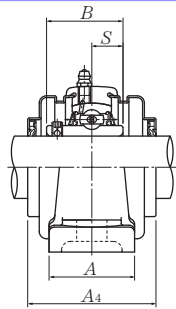
| Shaft<br>dia.                                                                                                                                                                     | Unit number <sup>1)</sup>                                                                       | Nominal dimensions                    |                                       |                                        |                                       |                                      |                                      |                                      |                                        |                                        |                |               | Bolt<br>size | Bearing number                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------|----------------------------------------|---------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|----------------------------------------|----------------------------------------|----------------|---------------|--------------|-------------------------------------------------------------------------------------------|
|                                                                                                                                                                                   |                                                                                                 |                                       |                                       |                                        |                                       |                                      |                                      |                                      |                                        |                                        |                |               |              |                                                                                           |
|                                                                                                                                                                                   |                                                                                                 | mm                                    |                                       |                                        |                                       |                                      | inch                                 |                                      |                                        |                                        |                | mm<br>inch    |              |                                                                                           |
| <i>H</i>                                                                                                                                                                          | <i>L</i>                                                                                        | <i>J</i>                              | <i>A</i>                              | <i>N</i>                               | <i>N</i> <sub>1</sub>                 | <i>H</i> <sub>1</sub>                | <i>H</i> <sub>2</sub>                | <i>L</i> <sub>1</sub>                | <i>B</i>                               | <i>S</i>                               |                |               |              |                                                                                           |
| <b>55</b><br>2 <sup>1</sup> / <sub>16</sub><br>2 <sup>1</sup> / <sub>8</sub><br>2 <sup>3</sup> / <sub>16</sub><br>2 <sup>1</sup> / <sub>4</sub><br>2 <sup>5</sup> / <sub>16</sub> | <b>UCPX11D1</b><br>UCPX11-201D1<br>UCPX11-202D1<br>UCPX11-203D1<br>UCPX11-204D1<br>UCPX11-205D1 | 69.8                                  | 260                                   | 184                                    | 79                                    | 25                                   | 28                                   | 30                                   | 137                                    | 75                                     | 65.1           | 25.4          | M20          | <b>UCX11D1</b><br>UCX11-201D1<br>UCX11-202D1<br>UCX11-203D1<br>UC212-204D1<br>UC212-205D1 |
| <b>60</b><br>2 <sup>3</sup> / <sub>8</sub><br>2 <sup>7</sup> / <sub>16</sub>                                                                                                      | <b>UCPX12D1</b><br>UCPX12-206D1<br>UCPX12-207D1                                                 | 76.2<br>3                             | 286<br>11 <sup>1</sup> / <sub>4</sub> | 203<br>8                               | 83<br>3 <sup>9</sup> / <sub>32</sub>  | 25<br>3 <sup>1</sup> / <sub>32</sub> | 28<br>1 <sup>3</sup> / <sub>32</sub> | 33<br>1 <sup>5</sup> / <sub>16</sub> | 151<br>5 <sup>15</sup> / <sub>16</sub> | 80<br>3 <sup>5</sup> / <sub>32</sub>   | 65.1<br>2.5630 | 25.4<br>1.000 | M20<br>3/4   | <b>UCX12D1</b><br>UCX12-206D1<br>UCX12-207D1                                              |
| <b>65</b><br>2 <sup>1</sup> / <sub>2</sub><br>2 <sup>9</sup> / <sub>16</sub>                                                                                                      | <b>UCPX13D1</b><br>UCPX13-208D1<br>UCPX13-209D1                                                 | 76.2<br>3                             | 286<br>11 <sup>1</sup> / <sub>4</sub> | 203<br>8                               | 83<br>3 <sup>9</sup> / <sub>32</sub>  | 25<br>3 <sup>1</sup> / <sub>32</sub> | 28<br>1 <sup>3</sup> / <sub>32</sub> | 33<br>1 <sup>5</sup> / <sub>16</sub> | 154<br>6 <sup>1</sup> / <sub>16</sub>  | 80<br>3 <sup>5</sup> / <sub>32</sub>   | 74.6<br>2.9370 | 30.2<br>1.189 | M20<br>3/4   | <b>UCX13D1</b><br>UCX13-208D1<br>UCX13-209D1                                              |
| <b>70</b><br>2 <sup>5</sup> / <sub>8</sub><br>2 <sup>11</sup> / <sub>16</sub><br>2 <sup>3</sup> / <sub>4</sub>                                                                    | <b>UCPX14D1</b><br>UCPX14-210D1<br>UCPX14-211D1<br>UCPX14-212D1                                 | 88.9<br>3 <sup>1</sup> / <sub>2</sub> | 330<br>13                             | 229<br>9 <sup>1</sup> / <sub>32</sub>  | 89<br>3 <sup>1</sup> / <sub>2</sub>   | 27<br>1 <sup>1</sup> / <sub>16</sub> | 30<br>1 <sup>3</sup> / <sub>16</sub> | 35<br>1 <sup>3</sup> / <sub>8</sub>  | 170<br>6 <sup>11</sup> / <sub>16</sub> | 95<br>3 <sup>3</sup> / <sub>4</sub>    | 77.8<br>3.0630 | 33.3<br>1.311 | M22<br>7/8   | <b>UCX14D1</b><br>UCX14-210D1<br>UCX14-211D1<br>UCX14-212D1                               |
| <b>75</b><br>2 <sup>13</sup> / <sub>16</sub><br>2 <sup>7</sup> / <sub>8</sub><br>2 <sup>15</sup> / <sub>16</sub><br>3                                                             | <b>UCPX15D1</b><br>UCPX15-213D1<br>UCPX15-214D1<br>UCPX15-215D1<br>UCPX15-300D1                 | 88.9<br>3 <sup>1</sup> / <sub>2</sub> | 330<br>13                             | 229<br>9 <sup>1</sup> / <sub>32</sub>  | 89<br>3 <sup>1</sup> / <sub>2</sub>   | 27<br>1 <sup>1</sup> / <sub>16</sub> | 30<br>1 <sup>3</sup> / <sub>16</sub> | 35<br>1 <sup>3</sup> / <sub>8</sub>  | 175<br>6 <sup>7</sup> / <sub>8</sub>   | 95<br>3 <sup>3</sup> / <sub>4</sub>    | 82.6<br>3.2520 | 33.3<br>1.311 | M22<br>7/8   | <b>UCX15D1</b><br>UCX15-213D1<br>UCX15-214D1<br>UCX15-215D1<br>UCX15-300D1                |
| <b>80</b><br>3 <sup>1</sup> / <sub>16</sub><br>3 <sup>1</sup> / <sub>8</sub><br>3 <sup>3</sup> / <sub>16</sub><br>3 <sup>1</sup> / <sub>4</sub>                                   | <b>UCPX16D1</b><br>UCPX16-301D1<br>UCPX16-302D1<br>UCPX16-303D1<br>UCPX16-304D1                 | 101.6<br>4                            | 381<br>15                             | 283<br>11 <sup>5</sup> / <sub>32</sub> | 102<br>4 <sup>1</sup> / <sub>32</sub> | 27<br>1 <sup>1</sup> / <sub>16</sub> | 30<br>1 <sup>3</sup> / <sub>16</sub> | 40<br>1 <sup>9</sup> / <sub>16</sub> | 194<br>7 <sup>5</sup> / <sub>8</sub>   | 110<br>4 <sup>11</sup> / <sub>32</sub> | 85.7<br>3.3740 | 34.1<br>1.343 | M22<br>7/8   | <b>UCX16D1</b><br>UCX16-301D1<br>UCX16-302D1<br>UCX16-303D1<br>UC217-304D1                |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

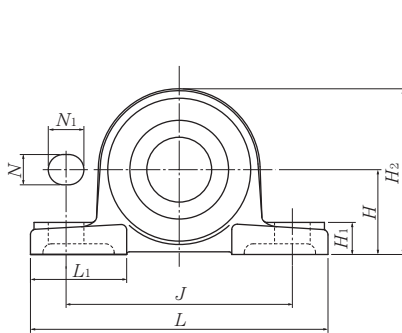
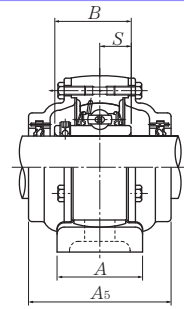
Note: Please refer to page 36 for size of grease fitting.



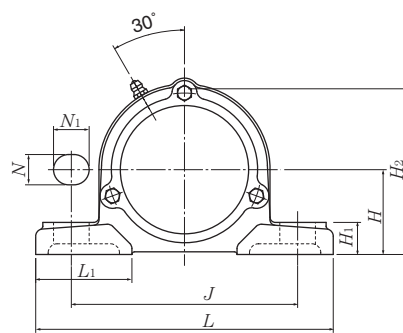
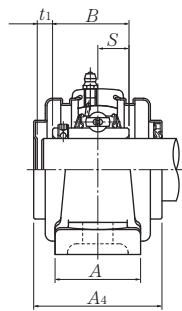
Press steel dust cover type (Open end)  
S-UCP...D1



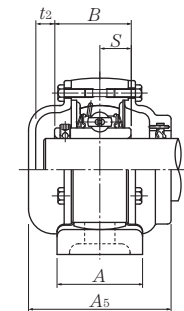
Cast dust cover type (Open end)  
C-UCP...D1



Press Steel dust cover type (Close end)  
SM-UCP...D1

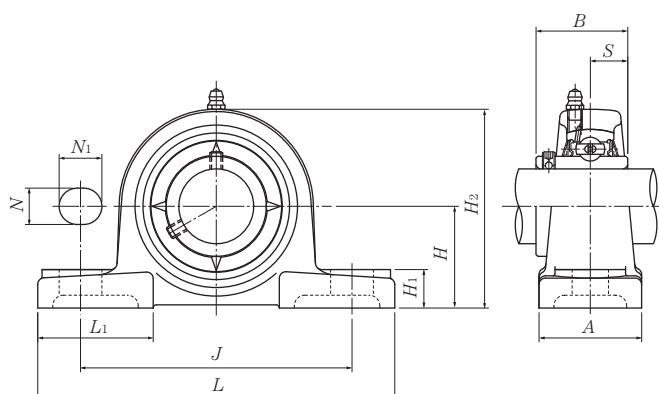


Cast dust cover type (Close end)  
CM-UCP...D1



| Housing<br>number | Unit number <sup>1)</sup><br>pressed steel dust<br>cover type | Unit number <sup>1)</sup><br>cast dust cover type | Nominal dimensions |                |                |                |                | Mass<br>(approx.) |       |       |
|-------------------|---------------------------------------------------------------|---------------------------------------------------|--------------------|----------------|----------------|----------------|----------------|-------------------|-------|-------|
|                   |                                                               |                                                   | mm                 |                | inch           |                |                | kg                |       | lb    |
|                   |                                                               |                                                   | t <sub>1</sub>     | t <sub>2</sub> | A <sub>4</sub> | H <sub>3</sub> | A <sub>5</sub> | UCPX              | S(SM) | C(CM) |
| PX11D1            | <b>S(SM)-UCPX11D1</b>                                         | <b>C(CM)-UCPX11D1</b>                             | 8                  | 12             | 102            | 144            | 115            | 5.4               | 5.8   | 6.9   |
| PX11D1            | S(SM)-UCPX11-201D1                                            | C(CM)-UCPX11-201D1                                |                    |                |                |                |                |                   |       |       |
| PX11D1            | S(SM)-UCPX11-202D1                                            | C(CM)-UCPX11-202D1                                |                    |                |                |                |                |                   |       |       |
| PX11D1            | S(SM)-UCPX11-203D1                                            | C(CM)-UCPX11-203D1                                | 5/16               | 15/32          | 4 1/32         | 5 21/32        | 4 17/32        | 12                | 13    | 15    |
| PX11D1            | S(SM)-UCPX11-204D1                                            | C(CM)-UCPX11-204D1                                |                    |                |                |                |                |                   |       |       |
| PX11D1            | S(SM)-UCPX11-205D1                                            | C(CM)-UCPX11-205D1                                |                    |                |                |                |                |                   |       |       |
| PX12D1            | <b>S(SM)-UCPX12D1</b>                                         | <b>C(CM)-UCPX12D1</b>                             | 11                 | 15             | 107            | 155            | 120            | 6.8               | 7.3   | 8.6   |
| PX12D1            | S(SM)-UCPX12-206D1                                            | C(CM)-UCPX12-206D1                                | 7/16               | 19/32          | 4 7/32         | 6 3/32         | 4 23/32        | 15                | 16    | 19    |
| PX12D1            | S(SM)-UCPX12-207D1                                            | C(CM)-UCPX12-207D1                                |                    |                |                |                |                |                   |       |       |
| PX13D1            | —                                                             | <b>C(CM)-UCPX13D1</b>                             | —                  | 17             | —              | 159            | 135            | 7.2               | —     | 9.4   |
| PX13D1            |                                                               | C(CM)-UCPX13-208D1                                | —                  | 2 1/32         | —              | 6 1/4          | 5 5/16         | 16                | —     | 21    |
| PX13D1            |                                                               | C(CM)-UCPX13-209D1                                |                    |                |                |                |                |                   |       |       |
| PX14D1            | —                                                             | <b>C(CM)-UCPX14D1</b>                             | —                  | 17             | —              | 175            | 135            | 9.3               | —     | 12    |
| PX14D1            |                                                               | C(CM)-UCPX14-210D1                                | —                  | 2 1/32         | —              | 6 7/8          | 5 5/16         | 21                | —     | 26    |
| PX14D1            |                                                               | C(CM)-UCPX14-211D1                                |                    |                |                |                |                |                   |       |       |
| PX14D1            |                                                               | C(CM)-UCPX14-212D1                                |                    |                |                |                |                |                   |       |       |
| PX15D1            | —                                                             | <b>C(CM)-UCPX15D1</b>                             | —                  | 17             | —              | 181            | 145            | 10                | —     | 13    |
| PX15D1            |                                                               | C(CM)-UCPX15-213D1                                | —                  | 2 1/32         | —              | 7 1/8          | 5 23/32        | 22                | —     | 29    |
| PX15D1            |                                                               | C(CM)-UCPX15-214D1                                |                    |                |                |                |                |                   |       |       |
| PX15D1            |                                                               | C(CM)-UCPX15-215D1                                |                    |                |                |                |                |                   |       |       |
| PX15D1            |                                                               | C(CM)-UCPX15-300D1                                |                    |                |                |                |                |                   |       |       |
| PX16D1            | —                                                             | <b>C(CM)-UCPX16D1</b>                             | —                  | 19             | —              | 198            | 155            | 14                | —     | 17    |
| PX16D1            |                                                               | C(CM)-UCPX16-301D1                                | —                  | 3/4            | —              | 7 25/32        | 6 3/32         | 31                | —     | 37    |
| PX16D1            |                                                               | C(CM)-UCPX16-302D1                                |                    |                |                |                |                |                   |       |       |
| PX16D1            |                                                               | C(CM)-UCPX16-303D1                                |                    |                |                |                |                |                   |       |       |
| PX16D1            |                                                               | C(CM)-UCPX16-304D1                                |                    |                |                |                |                |                   |       |       |

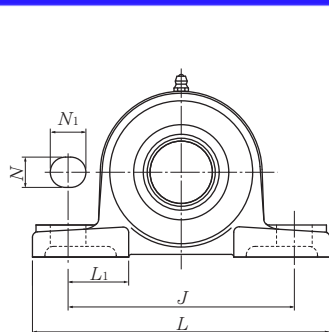
# Pillow blocks cast housing Set screw type



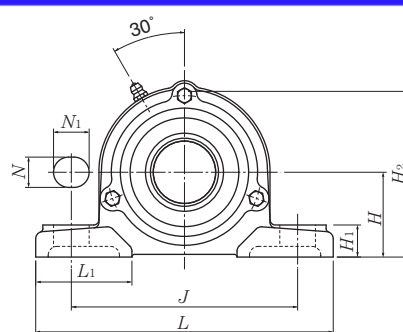
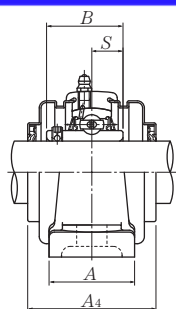
| Shaft<br>dia.                                                                                                   | Unit number <sup>1)</sup>                                                | Nominal dimensions |           |                                        |                                       |                                      |                                       |                                       |                                        |                                        |                 |               |            | Bolt<br>size                                                        | Bearing number |
|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------|-----------|----------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|---------------------------------------|----------------------------------------|----------------------------------------|-----------------|---------------|------------|---------------------------------------------------------------------|----------------|
|                                                                                                                 |                                                                          | mm                 |           |                                        |                                       |                                      |                                       | inch                                  |                                        |                                        |                 |               |            |                                                                     |                |
|                                                                                                                 |                                                                          | <i>H</i>           | <i>L</i>  | <i>J</i>                               | <i>A</i>                              | <i>N</i>                             | <i>N</i> <sub>1</sub>                 | <i>H</i> <sub>1</sub>                 | <i>H</i> <sub>2</sub>                  | <i>L</i> <sub>1</sub>                  | <i>B</i>        | <i>S</i>      |            |                                                                     |                |
| 85<br>3 <sup>5</sup> / <sub>16</sub><br>3 <sup>7</sup> / <sub>16</sub>                                          | UCPX17D1<br>UCPX17-305D1<br>UCPX17-307D1                                 | 101.6<br>4         | 381<br>15 | 283<br>11 <sup>5</sup> / <sub>32</sub> | 102<br>4 <sup>1</sup> / <sub>32</sub> | 27<br>1 <sup>1</sup> / <sub>16</sub> | 30<br>1 <sup>3</sup> / <sub>16</sub>  | 40<br>1 <sup>9</sup> / <sub>16</sub>  | 200<br>7 <sup>7</sup> / <sub>8</sub>   | 110<br>4 <sup>11</sup> / <sub>32</sub> | 96<br>3.7795    | 39.7<br>1.563 | M22<br>7/8 | UCX17D1<br>UCX17-305D1<br>UCX17-307D1                               |                |
| 90<br>3 <sup>7</sup> / <sub>16</sub><br>3 <sup>1</sup> / <sub>2</sub>                                           | UCPX18D1<br>UCPX18-307D1<br>UCPX18-308D1                                 | 101.6<br>4         | 381<br>15 | 283<br>11 <sup>5</sup> / <sub>32</sub> | 111<br>4 <sup>3</sup> / <sub>8</sub>  | 27<br>1 <sup>1</sup> / <sub>16</sub> | 30<br>1 <sup>3</sup> / <sub>16</sub>  | 40<br>1 <sup>9</sup> / <sub>16</sub>  | 206<br>8 <sup>1</sup> / <sub>8</sub>   | 110<br>4 <sup>11</sup> / <sub>32</sub> | 104<br>4.0945   | 42.9<br>1.689 | M22<br>7/8 | UCX18D1<br>UCX18-307D1<br>UCX18-308D1                               |                |
| 100<br>3 <sup>13</sup> / <sub>16</sub><br>3 <sup>7</sup> / <sub>8</sub><br>3 <sup>15</sup> / <sub>16</sub><br>4 | UCPX20D1<br>UCPX20-313D1<br>UCPX20-314D1<br>UCPX20-315D1<br>UCPX20-400D1 | 127<br>5           | 432<br>17 | 337<br>13 <sup>9</sup> / <sub>32</sub> | 121<br>4 <sup>3</sup> / <sub>4</sub>  | 33<br>1 <sup>5</sup> / <sub>16</sub> | 36<br>1 <sup>13</sup> / <sub>32</sub> | 45<br>1 <sup>25</sup> / <sub>32</sub> | 244<br>9 <sup>19</sup> / <sub>32</sub> | 125<br>4 <sup>29</sup> / <sub>32</sub> | 117.5<br>4.6260 | 49.2<br>1.937 | M27<br>1   | UCX20D1<br>UCX20-313D1<br>UCX20-314D1<br>UCX20-315D1<br>UCX20-400D1 |                |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

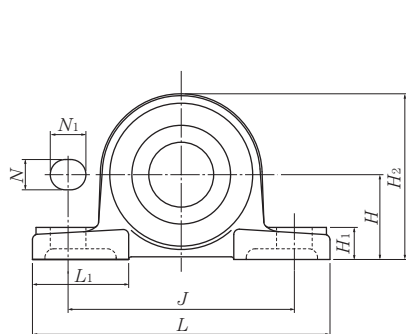
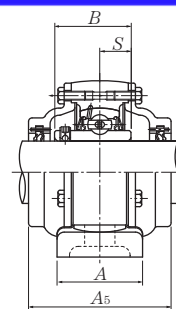
Note: Please refer to page 36 for size of grease fitting.



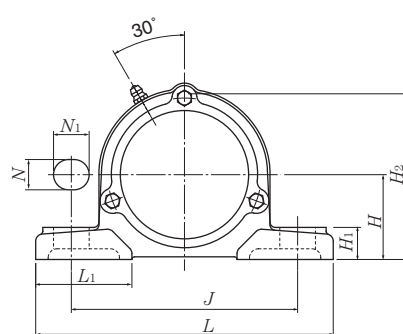
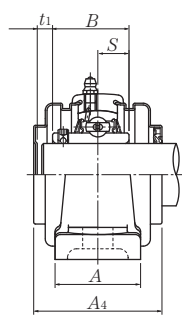
Press steel dust cover type (Open end)  
S-UCP...D1



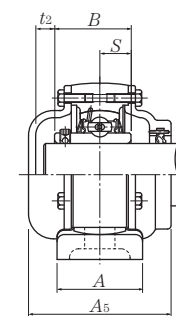
Cast dust cover type (Open end)  
C-UCP...D1



Press Steel dust cover type (Close end)  
SM-UCP...D1

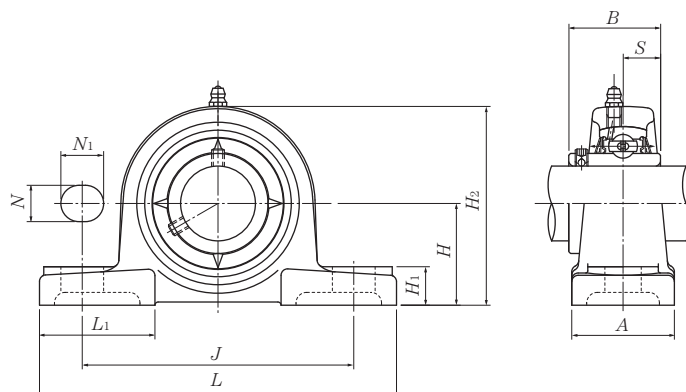


Cast dust cover type (Close end)  
CM-UCP...D1



| Housing<br>number <sup>1)</sup> | Unit number <sup>1)</sup><br>pressed steel dust<br>cover type | Unit number <sup>1)</sup><br>cast dust cover type | Nominal dimensions |                                  |                |                                 |                                 | Mass<br>(approx.) |       |       |
|---------------------------------|---------------------------------------------------------------|---------------------------------------------------|--------------------|----------------------------------|----------------|---------------------------------|---------------------------------|-------------------|-------|-------|
|                                 |                                                               |                                                   | mm                 |                                  | inch           |                                 |                                 | kg                |       | lb    |
|                                 |                                                               |                                                   | t <sub>1</sub>     | t <sub>2</sub>                   | A <sub>4</sub> | H <sub>3</sub>                  | A <sub>5</sub>                  | UCPX              | S(SM) | C(CM) |
| PX17D1                          | —                                                             | <b>C(CM)-UCPX17D1</b>                             | —                  | 20                               | —              | 204                             | 165                             | 15                | —     | 19    |
| PX17D1                          | —                                                             | <b>C(CM)-UCPX17-305D1</b>                         | —                  | 25 <sup>5</sup> / <sub>32</sub>  | —              | 8 <sup>1</sup> / <sub>32</sub>  | 6 <sup>1</sup> / <sub>2</sub>   | 33                | —     | 42    |
| PX17D1                          | —                                                             | <b>C(CM)-UCPX17-307D1</b>                         | —                  | —                                | —              | —                               | —                               | —                 | —     | —     |
| PX18D1                          | —                                                             | <b>C(CM)-UCPX18D1</b>                             | —                  | 22                               | —              | 208                             | 180                             | 16                | —     | 21    |
| PX18D1                          | —                                                             | <b>C(CM)-UCPX18-307D1</b>                         | —                  | 7 <sup>7</sup> / <sub>8</sub>    | —              | 8 <sup>3</sup> / <sub>16</sub>  | 7 <sup>3</sup> / <sub>32</sub>  | 35                | —     | 46    |
| PX18D1                          | —                                                             | <b>C(CM)-UCPX18-308D1</b>                         | —                  | —                                | —              | —                               | —                               | —                 | —     | —     |
| PX20D1                          | —                                                             | <b>C(CM)-UCPX20D1</b>                             | —                  | 23                               | —              | 244                             | 195                             | 25                | —     | 29    |
| PX20D1                          | —                                                             | <b>C(CM)-UCPX20-313D1</b>                         | —                  | —                                | —              | —                               | —                               | —                 | —     | —     |
| PX20D1                          | —                                                             | <b>C(CM)-UCPX20-314D1</b>                         | —                  | 29 <sup>29</sup> / <sub>32</sub> | —              | 9 <sup>39</sup> / <sub>64</sub> | 7 <sup>11</sup> / <sub>16</sub> | 55                | —     | 64    |
| PX20D1                          | —                                                             | <b>C(CM)-UCPX20-315D1</b>                         | —                  | —                                | —              | —                               | —                               | —                 | —     | —     |
| PX20D1                          | —                                                             | <b>C(CM)-UCPX20-400D1</b>                         | —                  | —                                | —              | —                               | —                               | —                 | —     | —     |

# Pillow blocks cast housing low center height Set screw type



| Shaft<br>dia.                            | Unit number <sup>1) 2) 3)</sup>                                               | Nominal dimensions |                |              |             |              |                       |                       |                       |                       |                |               |            | Bolt<br>size                                                        | Bearing number |
|------------------------------------------|-------------------------------------------------------------------------------|--------------------|----------------|--------------|-------------|--------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------|---------------|------------|---------------------------------------------------------------------|----------------|
|                                          |                                                                               | mm                 |                |              |             |              |                       | inch                  |                       |                       |                |               |            |                                                                     |                |
|                                          |                                                                               | <i>H</i>           | <i>L</i>       | <i>J</i>     | <i>A</i>    | <i>N</i>     | <i>N</i> <sub>1</sub> | <i>H</i> <sub>1</sub> | <i>H</i> <sub>2</sub> | <i>L</i> <sub>1</sub> | <i>B</i>       | <i>S</i>      |            |                                                                     |                |
| 20<br>3/4                                | UCPL204D1<br>UCPL204-012D1                                                    | 31.75<br>1 1/4     | 127<br>5       | 95<br>3 3/4  | 38<br>1 1/2 | 13<br>1/2    | 16<br>5/8             | 14<br>9/16            | 64<br>2 17/32         | 42<br>1 21/32         | 31<br>1.2205   | 12.7<br>0.500 | M10<br>3/8 | UC204D1<br>UC204-012D1                                              |                |
| 25<br>1 3/16<br>7/8<br>1 5/16<br>1       | UCPL205D1<br>UCPL205-013D1<br>UCPL205-014D1<br>UCPL205-015D1<br>UCPL205-100D1 | 33.34<br>1 5/16    | 140<br>5 1/2   | 105<br>4 1/8 | 38<br>1 1/2 | 13<br>1/2    | 16<br>5/8             | 15<br>19/32           | 68<br>2 11/16         | 42<br>1 21/32         | 34.1<br>1.3425 | 14.3<br>0.563 | M10<br>3/8 | UC205D1<br>UC205-013D1<br>UC205-014D1<br>UC205-015D1<br>UC205-100D1 |                |
| 30<br>1 1/16<br>1 1/8<br>1 3/16<br>1 1/4 | UCPL206D1<br>UCPL206-101D1<br>UCPL206-102D1<br>UCPL206-103D1<br>UCPL206-104D1 | 39.69<br>1 9/16    | 165<br>6 1/2   | 121<br>4 3/4 | 48<br>1 7/8 | 17<br>2 1/32 | 20<br>25/32           | 17<br>2 1/32          | 80<br>3 5/32          | 54<br>2 1/8           | 38.1<br>1.5000 | 15.9<br>0.626 | M14<br>1/2 | UC206D1<br>UC206-101D1<br>UC206-102D1<br>UC206-103D1<br>UC206-104D1 |                |
| 35<br>1 1/4<br>1 5/16<br>1 3/8<br>1 7/16 | UCPL207D1<br>UCPL207-104D1<br>UCPL207-105D1<br>UCPL207-106D1<br>UCPL207-107D1 | 46.04<br>1 13/16   | 167<br>6 9/16  | 127<br>5     | 48<br>1 7/8 | 17<br>2 1/32 | 20<br>25/32           | 18<br>23/32           | 91<br>3 19/32         | 54<br>2 1/8           | 42.9<br>1.6890 | 17.5<br>0.689 | M14<br>1/2 | UC207D1<br>UC207-104D1<br>UC207-105D1<br>UC207-106D1<br>UC207-107D1 |                |
| 45<br>1 5/8<br>1 11/16<br>1 3/4          | UCPL209D1<br>UCPL209-110D1<br>UCPL209-111D1<br>UCPL209-112D1                  | 52.39<br>2 1/16    | 190<br>7 15/32 | 146<br>5 3/4 | 54<br>2 1/8 | 17<br>2 1/32 | 20<br>25/32           | 20<br>25/32           | 104<br>4 3/32         | 60<br>2 3/8           | 49.2<br>1.9370 | 19<br>0.748   | M14<br>1/2 | UC209D1<br>UC209-110D1<br>UC209-111D1<br>UC209-112D1                |                |
| 50<br>1 13/16<br>1 7/8<br>1 15/16<br>2   | UCPL210D1<br>UCPL210-113D1<br>UCPL210-114D1<br>UCPL210-115D1<br>UCPL210-200D1 | 55.56<br>2 3/16    | 206<br>8 1/8   | 159<br>6 1/4 | 60<br>2 3/8 | 20<br>25/32  | 23<br>29/32           | 21<br>13/16           | 112<br>4 13/32        | 65<br>2 9/16          | 51.6<br>2.0315 | 19<br>0.748   | M16<br>5/8 | UC210D1<br>UC210-113D1<br>UC210-114D1<br>UC210-115D1<br>UC210-200D1 |                |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

2) UCPL204 and UCPL205 has solid bases.

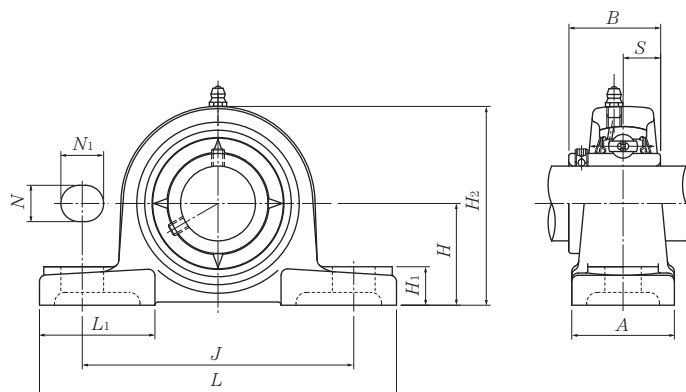
3) UCPL208 has the same dimension as UCP208 shown in page 60.

Note: Please refer to page 36 for size of grease fitting.

| Housing<br>number <sup>1)</sup> | Mass<br>(approx.) |    |
|---------------------------------|-------------------|----|
|                                 | kg                | lb |
| PL204D1                         | 0.7               |    |
| PL204D1                         | 1.5               |    |
| PL205D1                         | 0.8               |    |
| PL205D1                         |                   |    |
| PL205D1                         | 1.8               |    |
| PL205D1                         |                   |    |
| PL205D1                         |                   |    |
| PL206D1                         | 1.3               |    |
| PL206D1                         |                   |    |
| PL206D1                         | 2.9               |    |
| PL206D1                         |                   |    |
| PL206D1                         |                   |    |
| PL207D1                         | 1.6               |    |
| PL207D1                         |                   |    |
| PL207D1                         | 3.5               |    |
| PL207D1                         |                   |    |
| PL207D1                         |                   |    |
| PL209D1                         | 2.2               |    |
| PL209D1                         |                   |    |
| PL209D1                         | 4.9               |    |
| PL209D1                         |                   |    |
| PL210D1                         | 2.8               |    |
| PL210D1                         |                   |    |
| PL210D1                         | 6.2               |    |
| PL210D1                         |                   |    |
| PL210D1                         |                   |    |



# Pillow blocks cast housing low center height Set screw type



| Shaft<br>dia.                                                                                                                            | Unit number <sup>1) 2) 3)</sup>                                               | Nominal dimensions                       |                                      |                                        |                                     |                                      |                                      |                                      |                                        |                                      |                |               |            | Bolt<br>size                                                        | Bearing number |
|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------|--------------------------------------|----------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|----------------------------------------|--------------------------------------|----------------|---------------|------------|---------------------------------------------------------------------|----------------|
|                                                                                                                                          |                                                                               | mm                                       |                                      |                                        |                                     |                                      |                                      | inch                                 |                                        |                                      |                |               |            |                                                                     |                |
|                                                                                                                                          |                                                                               | <i>H</i>                                 | <i>L</i>                             | <i>J</i>                               | <i>A</i>                            | <i>N</i>                             | <i>N</i> <sub>1</sub>                | <i>H</i> <sub>1</sub>                | <i>H</i> <sub>2</sub>                  | <i>L</i> <sub>1</sub>                | <i>B</i>       | <i>S</i>      |            |                                                                     |                |
| 55<br>2<br>2 <sup>1</sup> / <sub>16</sub><br>2 <sup>1</sup> / <sub>8</sub><br>2 <sup>3</sup> / <sub>16</sub>                             | UCPL211D1<br>UCPL211-200D1<br>UCPL211-201D1<br>UCPL211-202D1<br>UCPL211-203D1 | 61.91<br>2 <sup>7</sup> / <sub>16</sub>  | 219<br>8 <sup>5</sup> / <sub>8</sub> | 171<br>6 <sup>23</sup> / <sub>32</sub> | 60<br>2 <sup>3</sup> / <sub>8</sub> | 20<br>2 <sup>5</sup> / <sub>32</sub> | 23<br>2 <sup>9</sup> / <sub>32</sub> | 23<br>2 <sup>9</sup> / <sub>32</sub> | 124<br>4 <sup>7</sup> / <sub>8</sub>   | 65<br>2 <sup>9</sup> / <sub>16</sub> | 55.6<br>2.1890 | 22.2<br>0.874 | M16<br>5/8 | UC211D1<br>UC211-200D1<br>UC211-201D1<br>UC211-202D1<br>UC211-203D1 |                |
| 60<br>2 <sup>1</sup> / <sub>4</sub><br>2 <sup>5</sup> / <sub>16</sub><br>2 <sup>3</sup> / <sub>8</sub><br>2 <sup>7</sup> / <sub>16</sub> | UCPL212D1<br>UCPL212-204D1<br>UCPL212-205D1<br>UCPL212-206D1<br>UCPL212-207D1 | 68.26<br>2 <sup>11</sup> / <sub>16</sub> | 241<br>9 <sup>1</sup> / <sub>2</sub> | 184<br>7 <sup>1</sup> / <sub>4</sub>   | 70<br>2 <sup>3</sup> / <sub>4</sub> | 20<br>2 <sup>5</sup> / <sub>32</sub> | 23<br>2 <sup>9</sup> / <sub>32</sub> | 25<br>3 <sup>1</sup> / <sub>32</sub> | 136<br>5 <sup>11</sup> / <sub>32</sub> | 70<br>2 <sup>3</sup> / <sub>4</sub>  | 65.1<br>2.5630 | 25.4<br>1.000 | M16<br>5/8 | UC212D1<br>UC212-204D1<br>UC212-205D1<br>UC212-206D1<br>UC212-207D1 |                |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

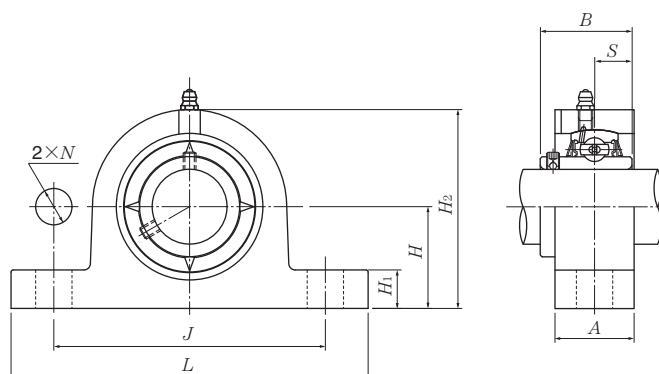
2) UCPL204 and UCPL205 has solid bases.

3) UCPL208 has the same dimension as UCP208 shown in page 60.

Note: Please refer to page 36 for size of grease fitting.

| Housing <sup>1)</sup><br>number | Mass<br>(approx.) |
|---------------------------------|-------------------|
|                                 | kg lb             |
| PL211D1                         | 3.4               |
| PL211D1                         |                   |
| PL211D1                         | 7.5               |
| PL211D1                         |                   |
| PL211D1                         |                   |
| PL212D1                         | 4.7               |
| PL212D1                         |                   |
| PL212D1                         | 10                |
| PL212D1                         |                   |
| PL212D1                         |                   |

**Pillow blocks (Steel series)**  
**Set screw type**



| Shaft<br>dia.<br><br>mm | Unit number <sup>1)</sup> | Nominal dimensions |     |     |    |    |                |                |      |      | Bolt<br>size<br><br>mm | Bearing number |
|-------------------------|---------------------------|--------------------|-----|-----|----|----|----------------|----------------|------|------|------------------------|----------------|
|                         |                           | H                  | L   | J   | A  | N  | H <sub>1</sub> | H <sub>2</sub> | B    | S    |                        |                |
| 12                      | UCPG201D1                 | 30.2               | 127 | 95  | 25 | 12 | 14             | 62             | 31   | 12.7 | M10                    | UC201D1        |
| 15                      | UCPG202D1                 | 30.2               | 127 | 95  | 25 | 12 | 14             | 62             | 31   | 12.7 | M10                    | UC202D1        |
| 17                      | UCPG203D1                 | 30.2               | 127 | 95  | 25 | 12 | 14             | 62             | 31   | 12.7 | M10                    | UC203D1        |
| 20                      | UCPG204D1                 | 33.3               | 127 | 95  | 25 | 12 | 14             | 65             | 31   | 12.7 | M10                    | UC204D1        |
| 25                      | UCPG205D1                 | 36.5               | 140 | 105 | 30 | 12 | 15             | 71             | 34.1 | 14.3 | M10                    | UC205D1        |
| 30                      | UCPG206D1                 | 42.9               | 165 | 121 | 35 | 17 | 17             | 83             | 38.1 | 15.9 | M14                    | UC206D1        |
| 35                      | UCPG207D1                 | 47.6               | 167 | 127 | 35 | 17 | 18             | 93             | 42.9 | 17.5 | M14                    | UC207D1        |
| 40                      | UCPG208D1                 | 49.2               | 184 | 137 | 40 | 17 | 18             | 98             | 49.2 | 19   | M14                    | UC208D1        |
| 45                      | UCPG209D1                 | 54                 | 190 | 146 | 40 | 17 | 20             | 106            | 49.2 | 19   | M14                    | UC209D1        |
| 50                      | UCPG210D1                 | 57.2               | 206 | 159 | 45 | 19 | 21             | 114            | 51.6 | 19   | M16                    | UC210D1        |
| 55                      | UCPG211D1                 | 63.5               | 219 | 171 | 45 | 19 | 23             | 126            | 55.6 | 22.2 | M16                    | UC211D1        |
| 60                      | UCPG212D1                 | 69.8               | 241 | 184 | 50 | 19 | 25             | 138            | 65.1 | 25.4 | M16                    | UC212D1        |
| 65                      | UCPG213D1                 | 76.2               | 265 | 203 | 50 | 24 | 27             | 151            | 65.1 | 25.4 | M20                    | UC213D1        |
| 70                      | UCPG214D1                 | 79.4               | 266 | 210 | 55 | 24 | 27             | 157            | 74.6 | 30.2 | M20                    | UC214D1        |
| 75                      | UCPG215D1                 | 82.6               | 275 | 217 | 55 | 24 | 28             | 163            | 77.8 | 33.3 | M20                    | UC215D1        |
| 80                      | UCPG216D1                 | 88.9               | 292 | 232 | 60 | 24 | 30             | 175            | 82.6 | 33.3 | M20                    | UC216D1        |
| 85                      | UCPG217D1                 | 95.2               | 310 | 247 | 60 | 24 | 32             | 187            | 85.7 | 34.1 | M20                    | UC217D1        |
| 90                      | UCPG218D1                 | 101.6              | 327 | 262 | 65 | 26 | 33             | 200            | 96   | 39.7 | M22                    | UC218D1        |

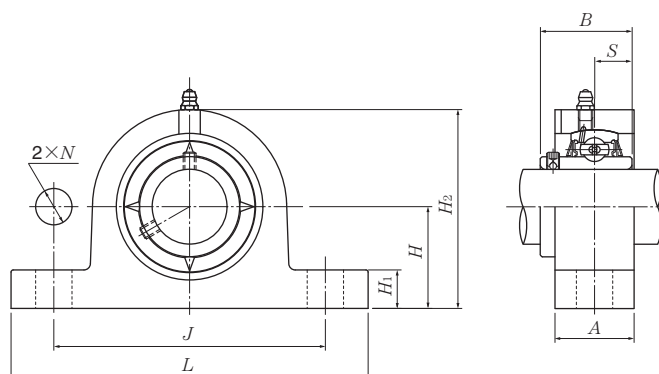
Remark: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: 1) Please refer to page 36 for size of grease fitting.

2) Please refer to page 414-419 for inch series bearings.

| Housing <sup>1)</sup><br>number | Mass<br>(approx.)<br><br>kg |
|---------------------------------|-----------------------------|
| PG203D1                         | 0.7                         |
| PG203D1                         | 0.7                         |
| PG203D1                         | 0.7                         |
| PG204D1                         | 0.7                         |
| PG205D1                         | 1.0                         |
| PG206D1                         | 1.5                         |
| PG207D1                         | 1.7                         |
| PG208D1                         | 2.2                         |
| PG209D1                         | 2.4                         |
| PG210D1                         | 3.2                         |
| PG211D1                         | 3.9                         |
| PG212D1                         | 5.3                         |
| PG213D1                         | 6.5                         |
| PG214D1                         | 7.4                         |
| PG215D1                         | 8.1                         |
| PG216D1                         | 9.8                         |
| PG217D1                         | 11                          |
| PG218D1                         | 14                          |

**Pillow blocks (Steel series)**  
**Set screw type**



| Shaft<br>dia.<br><br>mm | Unit number <sup>1)</sup> | Nominal dimensions |     |     |     |    |                |                |     |    | Bolt<br>size<br><br>mm | Bearing number |
|-------------------------|---------------------------|--------------------|-----|-----|-----|----|----------------|----------------|-----|----|------------------------|----------------|
|                         |                           | H                  | L   | J   | A   | N  | H <sub>1</sub> | H <sub>2</sub> | B   | S  |                        |                |
| 25                      | UCPG305D1                 | 45                 | 175 | 132 | 35  | 17 | 15             | 85             | 38  | 15 | M14                    | UC305D1        |
| 30                      | UCPG306D1                 | 50                 | 180 | 140 | 35  | 17 | 18             | 95             | 43  | 17 | M14                    | UC306D1        |
| 35                      | UCPG307D1                 | 56                 | 210 | 160 | 40  | 17 | 20             | 106            | 48  | 19 | M14                    | UC307D1        |
| 40                      | UCPG308D1                 | 60                 | 220 | 170 | 45  | 17 | 22             | 116            | 52  | 19 | M14                    | UC308D1        |
| 45                      | UCPG309D1                 | 67                 | 245 | 190 | 50  | 19 | 24             | 129            | 57  | 22 | M16                    | UC309D1        |
| 50                      | UCPG310D1                 | 75                 | 275 | 212 | 55  | 19 | 27             | 143            | 61  | 22 | M16                    | UC310D1        |
| 55                      | UCPG311D1                 | 80                 | 310 | 236 | 60  | 19 | 30             | 154            | 66  | 25 | M16                    | UC311D1        |
| 60                      | UCPG312D1                 | 85                 | 330 | 250 | 65  | 24 | 32             | 165            | 71  | 26 | M20                    | UC312D1        |
| 65                      | UCPG313D1                 | 90                 | 340 | 260 | 65  | 24 | 33             | 176            | 75  | 30 | M20                    | UC313D1        |
| 70                      | UCPG314D1                 | 95                 | 360 | 280 | 65  | 26 | 35             | 187            | 78  | 33 | M22                    | UC314D1        |
| 75                      | UCPG315D1                 | 100                | 380 | 290 | 75  | 26 | 35             | 198            | 82  | 32 | M22                    | UC315D1        |
| 80                      | UCPG316D1                 | 106                | 400 | 300 | 80  | 26 | 40             | 210            | 86  | 34 | M22                    | UC316D1        |
| 85                      | UCPG317D1                 | 112                | 420 | 320 | 80  | 32 | 40             | 220            | 96  | 40 | M27                    | UC317D1        |
| 90                      | UCPG318D1                 | 118                | 430 | 330 | 80  | 32 | 45             | 235            | 96  | 40 | M27                    | UC318D1        |
| 95                      | UCPG319D1                 | 125                | 470 | 360 | 90  | 35 | 45             | 250            | 103 | 41 | M30                    | UC319D1        |
| 100                     | UCPG320D1                 | 140                | 490 | 380 | 90  | 35 | 50             | 275            | 108 | 42 | M30                    | UC320D1        |
| 105                     | UCPG321D1                 | 140                | 490 | 380 | 90  | 35 | 50             | 280            | 112 | 44 | M30                    | UC321D1        |
| 110                     | UCPG322D1                 | 150                | 520 | 400 | 100 | 38 | 55             | 300            | 117 | 46 | M33                    | UC322D1        |
| 120                     | UCPG324D1                 | 160                | 570 | 450 | 100 | 38 | 65             | 320            | 126 | 51 | M33                    | UC324D1        |
| 130                     | UCPG326D1                 | 180                | 600 | 480 | 110 | 38 | 75             | 355            | 135 | 54 | M33                    | UC326D1        |
| 140                     | UCPG328D1                 | 200                | 620 | 500 | 110 | 38 | 75             | 390            | 145 | 59 | M33                    | UC328D1        |

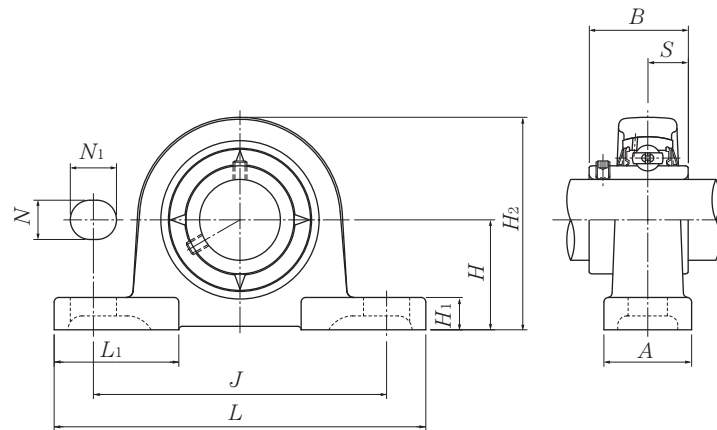
Remark: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: 1) Please refer to page 36 for size of grease fitting.

2) Please refer to page 420-425 for inch series bearings.

| Housing <sup>1)</sup><br>number | Mass<br>(approx.)<br><br>kg |
|---------------------------------|-----------------------------|
| PG305D1                         | 1.6                         |
| PG306D1                         | 2.0                         |
| PG307D1                         | 2.8                         |
| PG308D1                         | 3.6                         |
| PG309D1                         | 5.0                         |
| PG310D1                         | 6.9                         |
| PG311D1                         | 8.8                         |
| PG312D1                         | 11                          |
| PG313D1                         | 12                          |
| PG314D1                         | 14                          |
| PG315D1                         | 18                          |
| PG316D1                         | 21                          |
| PG317D1                         | 23                          |
| PG318D1                         | 26                          |
| PG319D1                         | 33                          |
| PG320D1                         | 40                          |
| PG321D1                         | 41                          |
| PG322D1                         | 52                          |
| PG324D1                         | 64                          |
| PG326D1                         | 76                          |
| PG328D1                         | 98                          |

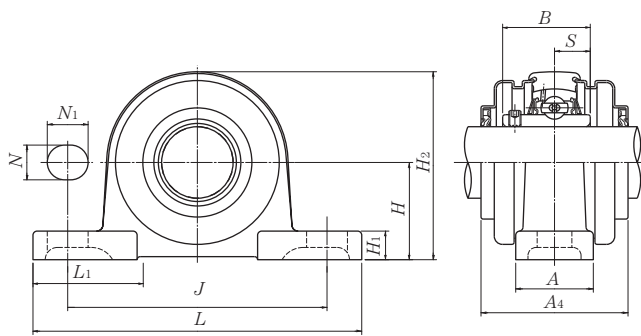
**Pillow blocks (Stainless series)**  
**Set screw type**



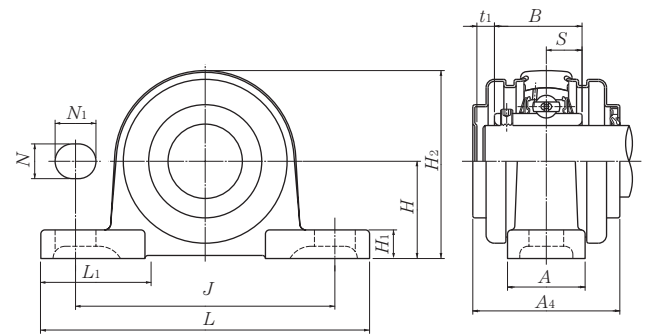
| Shaft<br>dia. | Unit number    | Nominal dimensions |          |          |          |          |                       |                       |                       |                       |          |          | Bolt<br>size |
|---------------|----------------|--------------------|----------|----------|----------|----------|-----------------------|-----------------------|-----------------------|-----------------------|----------|----------|--------------|
| mm            |                | mm                 |          |          |          |          |                       |                       |                       |                       |          |          | mm           |
|               |                | <i>H</i>           | <i>L</i> | <i>J</i> | <i>A</i> | <i>N</i> | <i>N</i> <sub>1</sub> | <i>H</i> <sub>1</sub> | <i>H</i> <sub>2</sub> | <i>L</i> <sub>1</sub> | <i>B</i> | <i>S</i> |              |
| 20            | F-UCPM204/LP03 | 33.3               | 120      | 95       | 30       | 12       | 14                    | 11                    | 64                    | 42                    | 31       | 12.7     | M10          |
| 25            | F-UCPM205/LP03 | 36.5               | 130      | 105      | 30       | 12       | 14                    | 12                    | 70                    | 42                    | 34.1     | 14.3     | M10          |
| 30            | F-UCPM206/LP03 | 42.9               | 155      | 121      | 36       | 17       | 20                    | 13                    | 82                    | 54                    | 38.1     | 15.9     | M14          |
| 35            | F-UCPM207/LP03 | 47.6               | 161      | 127      | 38       | 17       | 20                    | 14                    | 92                    | 54                    | 42.9     | 17.5     | M14          |
| 40            | F-UCPM208/LP03 | 49.2               | 171      | 137      | 40       | 17       | 20                    | 14                    | 98                    | 52                    | 49.2     | 19       | M14          |
| 45            | F-UCPM209/LP03 | 54                 | 180      | 146      | 40       | 17       | 20                    | 14                    | 105                   | 60                    | 49.2     | 19       | M14          |
| 50            | F-UCPM210/LP03 | 57.2               | 195      | 159      | 45       | 19       | 22                    | 16                    | 114                   | 65                    | 51.6     | 19       | M16          |

Remark: 1) This series uses solid grease in the bearings as standard. A stainless steel bearing unit packed with a food grade grease or heat resistance grease is also available.

2) The basic dynamic load rating  $C_r$  of the bearing is different from a bearing made with standard bearing steel.



Open end : F-FS-UCPM

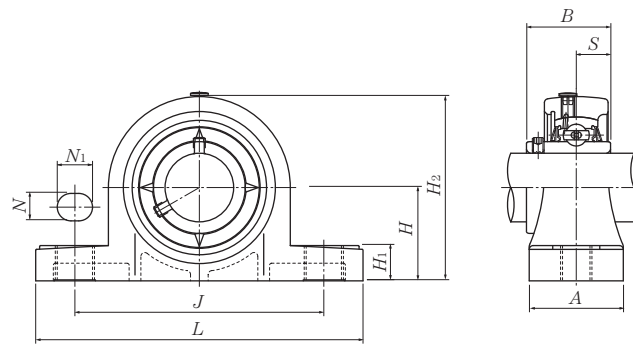


Closed end : F-FSM-UCPM

| Bearing number<br><br>mm | Basic load ratings |          | Housing number | Unit number<br>Pressed stainless steel dust cover type |                    | Nominal dimensions |    | Mass (approx.) |         |
|--------------------------|--------------------|----------|----------------|--------------------------------------------------------|--------------------|--------------------|----|----------------|---------|
|                          | dynamic            | static   |                | Open end                                               | Closed end         | mm                 | mm | UCPM           | FS(FSM) |
|                          | $C_r$              | $C_{or}$ |                |                                                        |                    |                    |    |                |         |
| F-UC204D1/LP03           | 9.9                | 6.65     | PM204          | F-FS-UCPM204/LP03                                      | F-FSM-UCPM204/LP03 | 5                  | 51 | 0.6            | 0.6     |
| F-UC205D1/LP03           | 10.8               | 7.85     | PM205          | F-FS-UCPM205/LP03                                      | F-FSM-UCPM205/LP03 | 5                  | 55 | 0.7            | 0.7     |
| F-UC206D1/LP03           | 15.0               | 11.3     | PM206          | F-FS-UCPM206/LP03                                      | F-FSM-UCPM206/LP03 | 5                  | 60 | 1.1            | 1.1     |
| F-UC207D1/LP03           | 19.7               | 15.3     | PM207          | F-FS-UCPM207/LP03                                      | F-FSM-UCPM207/LP03 | 5                  | 69 | 1.3            | 1.5     |
| F-UC208D1/LP03           | 22.4               | 17.8     | PM208          | F-FS-UCPM208/LP03                                      | F-FSM-UCPM208/LP03 | 6                  | 80 | 1.7            | 1.8     |
| F-UC209D1/LP03           | 25.2               | 20.4     | PM209          | F-FS-UCPM209/LP03                                      | F-FSM-UCPM209/LP03 | 6                  | 80 | 1.8            | 2.0     |
| F-UC210D1/LP03           | 27.0               | 23.2     | PM210          | F-FS-UCPM210/LP03                                      | F-FSM-UCPM210/LP03 | 6                  | 85 | 2.4            | 2.6     |



**Pillow blocks (Plastic housing series)**  
**Set screw type**

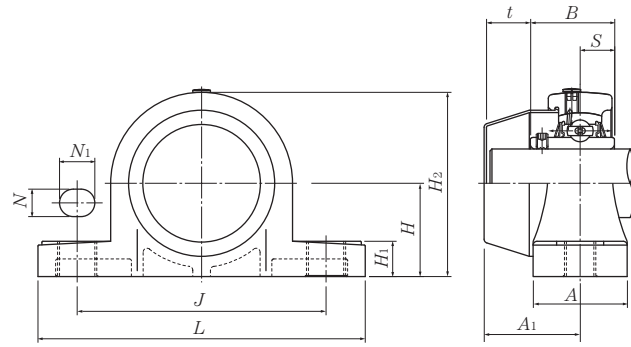


| Shaft<br>dia.<br><br>mm | Unit number    | Nominal dimensions |     |       |    |      |                |                |                |      |      | Bolt<br>size<br><br>mm |
|-------------------------|----------------|--------------------|-----|-------|----|------|----------------|----------------|----------------|------|------|------------------------|
|                         |                | H                  | L   | J     | A  | N    | N <sub>1</sub> | H <sub>1</sub> | H <sub>2</sub> | B    | S    |                        |
| 20                      | F-UCPR204/LP03 | 33.3               | 127 | 95    | 38 | 11 ※ | 14 ※           | 14.2           | 65             | 31   | 12.7 | M10                    |
| 25                      | F-UCPR205/LP03 | 36.5               | 140 | 105   | 38 | 11 ※ | 14 ※           | 14.5           | 71             | 34.1 | 14.3 | M10                    |
| 30                      | F-UCPR206/LP03 | 42.9               | 162 | 119 ※ | 46 | 14 ※ | 18 ※           | 17.8           | 83             | 38.1 | 15.9 | M12 ※                  |
| 35                      | F-UCPR207/LP03 | 47.6               | 167 | 127   | 48 | 14 ※ | 18 ※           | 18             | 94             | 42.9 | 17.5 | M12 ※                  |
| 40                      | F-UCPR208/LP03 | 49.2               | 184 | 137   | 54 | 14 ※ | 18 ※           | 19.5           | 98             | 49.2 | 19   | M12 ※                  |

Remark: 1) This series uses solid grease in the bearings as standard. Ball bearings packed with a food grade grease are also available.

2) Some dimensions are different from those for a cast iron housings (JIS product). (Main parts are shown with " ※ " )

3) The basic dynamic load rating  $C_r$  of the bearing is different from a bearing made with standard bearing steel.

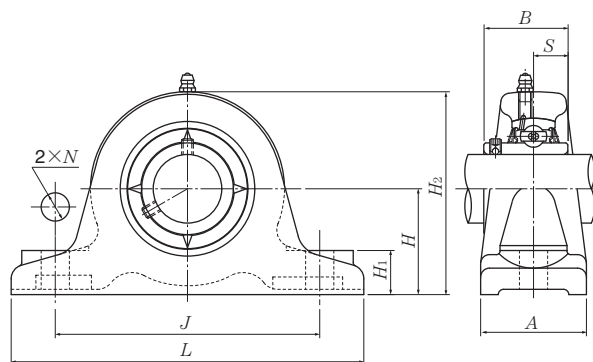


Resin dust cover type (Close end)

| Bearing number | Basic load ratings |        | Housing number | Unit number<br>resin dust cover type | Nominal dimension |    | Mass<br>(approx.) |           |    |
|----------------|--------------------|--------|----------------|--------------------------------------|-------------------|----|-------------------|-----------|----|
|                | dynamic            | static |                |                                      | mm                | mm | F-UCPR            | F-RM-UCPR |    |
|                |                    |        |                |                                      |                   |    |                   |           | kg |
|                |                    |        |                |                                      |                   |    |                   |           |    |
| $C_r$          | $C_{or}$           | $A_1$  | $t$            |                                      |                   |    |                   |           |    |
| F-UC204D1/LP03 | 9.9                | 6.65   | PR204          | F-RM-UCPR204/LP03                    | 33                | 13 | 0.3               | 0.3       |    |
| F-UC205D1/LP03 | 10.8               | 7.85   | PR205          | F-RM-UCPR205/LP03                    | 34                | 13 | 0.3               | 0.3       |    |
| F-UC206D1/LP03 | 15.0               | 11.3   | PR206          | F-RM-UCPR206/LP03                    | 41                | 17 | 0.5               | 0.5       |    |
| F-UC207D1/LP03 | 19.7               | 15.3   | PR207          | F-RM-UCPR207/LP03                    | 43                | 16 | 0.7               | 0.7       |    |
| F-UC208D1/LP03 | 22.4               | 17.8   | PR208          | F-RM-UCPR208/LP03                    | 49                | 17 | 1.0               | 1.0       |    |

# Thick pillow blocks cast housing

## Set screw type



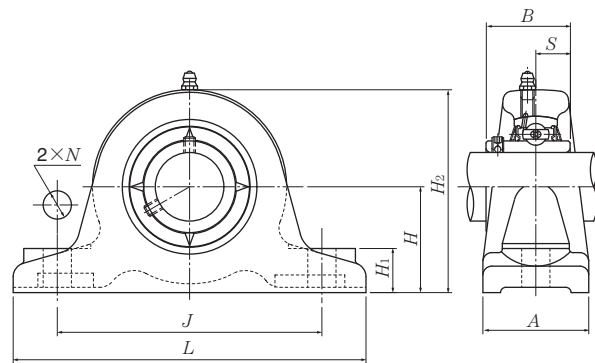
| Shaft<br>dia.                                                                                                    | Unit number <sup>1)</sup>                                                                                        | Nominal dimensions                    |                                        |                                        |                                     |                         |                                      |                                        |                |               | Bolt<br>size | Bearing number                                                             |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------------------|----------------------------------------|-------------------------------------|-------------------------|--------------------------------------|----------------------------------------|----------------|---------------|--------------|----------------------------------------------------------------------------|
|                                                                                                                  |                                                                                                                  | mm                                    |                                        |                                        |                                     |                         | inch                                 |                                        |                |               |              |                                                                            |
|                                                                                                                  |                                                                                                                  | <i>H</i>                              | <i>L</i>                               | <i>J</i>                               | <i>A</i>                            | <i>N</i>                | <i>H</i> <sub>1</sub>                | <i>H</i> <sub>2</sub>                  | <i>B</i>       | <i>S</i>      |              |                                                                            |
| <b>40</b><br><b>1½</b><br><b>1⅞</b>                                                                              | <b>UCIP208D1</b><br><b>UCIP208-108D1</b><br><b>UCIP208-109D1</b>                                                 | 60<br>2 <sup>23</sup> / <sub>64</sub> | 200<br>7 <sup>7</sup> / <sub>8</sub>   | 150<br>5 <sup>29</sup> / <sub>32</sub> | 60<br>2 <sup>3</sup> / <sub>8</sub> | 19<br>¾                 | 25<br>3 <sup>1</sup> / <sub>32</sub> | 115<br>4 <sup>17</sup> / <sub>32</sub> | 49.2<br>1.9370 | 19<br>0.748   | M16<br>⅝     | <b>UC208D1</b><br>UC208-108D1<br>UC208-109D1                               |
| <b>45</b><br><b>1⅝</b><br><b>1<sup>11</sup>/<sub>16</sub></b><br><b>1¾</b>                                       | <b>UCIP209D1</b><br><b>UCIP209-110D1</b><br><b>UCIP209-111D1</b><br><b>UCIP209-112D1</b>                         | 70<br>2¾                              | 210<br>8 <sup>9</sup> / <sub>32</sub>  | 160<br>6 <sup>19</sup> / <sub>64</sub> | 60<br>2 <sup>3</sup> / <sub>8</sub> | 19<br>¾                 | 25<br>3 <sup>1</sup> / <sub>32</sub> | 128<br>5 <sup>1</sup> / <sub>32</sub>  | 49.2<br>1.9370 | 19<br>0.748   | M16<br>⅝     | <b>UC209D1</b><br>UC209-110D1<br>UC209-111D1<br>UC209-112D1                |
| <b>50</b><br><b>1<sup>13</sup>/<sub>16</sub></b><br><b>1⅞</b><br><b>1<sup>15</sup>/<sub>16</sub></b><br><b>2</b> | <b>UCIP210D1</b><br><b>UCIP210-113D1</b><br><b>UCIP210-114D1</b><br><b>UCIP210-115D1</b><br><b>UCIP210-200D1</b> | 70<br>2¾                              | 220<br>8 <sup>21</sup> / <sub>32</sub> | 170<br>6 <sup>11</sup> / <sub>16</sub> | 60<br>2 <sup>3</sup> / <sub>8</sub> | 19<br>¾                 | 28<br>1 <sup>3</sup> / <sub>32</sub> | 132<br>5 <sup>3</sup> / <sub>16</sub>  | 51.6<br>2.0315 | 19<br>0.748   | M16<br>⅝     | <b>UC210D1</b><br>UC210-113D1<br>UC210-114D1<br>UC210-115D1<br>UC210-200D1 |
| <b>55</b><br><b>2</b><br><b>2<sup>1</sup>/<sub>16</sub></b><br><b>2⅛</b><br><b>2<sup>3</sup>/<sub>16</sub></b>   | <b>UCIP211D1</b><br><b>UCIP211-200D1</b><br><b>UCIP211-201D1</b><br><b>UCIP211-202D1</b><br><b>UCIP211-203D1</b> | 80<br>3 <sup>5</sup> / <sub>32</sub>  | 230<br>9 <sup>1</sup> / <sub>16</sub>  | 180<br>7 <sup>3</sup> / <sub>32</sub>  | 60<br>2 <sup>3</sup> / <sub>8</sub> | 19<br>¾                 | 28<br>1 <sup>3</sup> / <sub>32</sub> | 148<br>5 <sup>13</sup> / <sub>16</sub> | 55.6<br>2.1890 | 22.2<br>0.874 | M16<br>⅝     | <b>UC211D1</b><br>UC211-200D1<br>UC211-201D1<br>UC211-202D1<br>UC211-203D1 |
| <b>60</b><br><b>2¼</b><br><b>2<sup>5</sup>/<sub>16</sub></b><br><b>2⅜</b><br><b>2<sup>7</sup>/<sub>16</sub></b>  | <b>UCIP212D1</b><br><b>UCIP212-204D1</b><br><b>UCIP212-205D1</b><br><b>UCIP212-206D1</b><br><b>UCIP212-207D1</b> | 80<br>3 <sup>5</sup> / <sub>32</sub>  | 260<br>10¼                             | 200<br>7 <sup>7</sup> / <sub>8</sub>   | 70<br>2¾                            | 22<br>55/ <sub>64</sub> | 30<br>1 <sup>3</sup> / <sub>16</sub> | 155<br>6 <sup>3</sup> / <sub>32</sub>  | 65.1<br>2.5630 | 25.4<br>1.000 | M20<br>¾     | <b>UC212D1</b><br>UC212-204D1<br>UC212-205D1<br>UC212-206D1<br>UC212-207D1 |
| <b>65</b><br><b>2½</b><br><b>2<sup>9</sup>/<sub>16</sub></b>                                                     | <b>UCIP213D1</b><br><b>UCIP213-208D1</b><br><b>UCIP213-209D1</b>                                                 | 90<br>3 <sup>35</sup> / <sub>64</sub> | 280<br>11 <sup>1</sup> / <sub>32</sub> | 220<br>8 <sup>21</sup> / <sub>32</sub> | 70<br>2¾                            | 22<br>55/ <sub>64</sub> | 30<br>1 <sup>3</sup> / <sub>16</sub> | 172<br>6 <sup>25</sup> / <sub>32</sub> | 65.1<br>2.5630 | 25.4<br>1.000 | M20<br>¾     | <b>UC213D1</b><br>UC213-208D1<br>UC213-209D1                               |

Remarks: 1) These number indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".  
 Note: Please refer to page 36 for size of grease fitting.

| Housing<br>number <sup>1)</sup> | Mass<br>(approx.) |
|---------------------------------|-------------------|
|                                 | kg lb             |
| IP208D1                         | 4.8               |
| IP208D1                         | 11                |
| IP209D1                         | 5.5               |
| IP209D1                         | 12                |
| IP210D1                         | 6.1               |
| IP210D1                         | 13                |
| IP211D1                         | 7.3               |
| IP211D1                         | 16                |
| IP212D1                         | 9.7               |
| IP212D1                         | 21                |
| IP213D1                         | 12                |
| IP213D1                         | 26                |

# Thick pillow blocks cast housing

## Set screw type



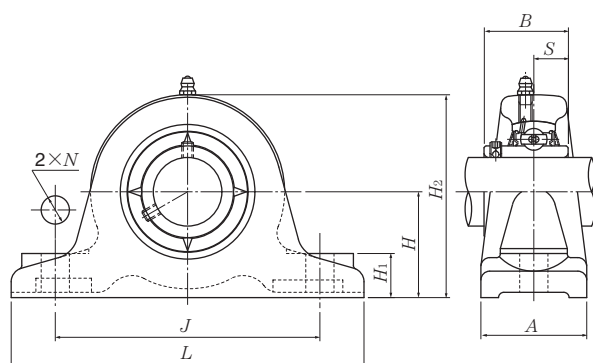
| Shaft<br>dia.                                                                                                  | Unit number <sup>1)</sup>                                                     | Nominal dimensions                     |                                         |                                         |                                       |                                       |                                       |                                        |               |             | Bolt<br>size                         | Bearing number                                                      |
|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------|-----------------------------------------|-----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|----------------------------------------|---------------|-------------|--------------------------------------|---------------------------------------------------------------------|
|                                                                                                                |                                                                               | mm                                     |                                         |                                         |                                       |                                       | inch                                  |                                        |               |             |                                      |                                                                     |
|                                                                                                                |                                                                               | <i>H</i>                               | <i>L</i>                                | <i>J</i>                                | <i>A</i>                              | <i>N</i>                              | <i>H</i> <sub>1</sub>                 | <i>H</i> <sub>2</sub>                  | <i>B</i>      | <i>S</i>    |                                      |                                                                     |
| 65<br>2½<br>2 <sup>9</sup> / <sub>16</sub>                                                                     | UCIP313D1<br>UCIP313-208D1<br>UCIP313-209D1                                   | 110<br>4 <sup>21</sup> / <sub>64</sub> | 310<br>12 <sup>7</sup> / <sub>32</sub>  | 250<br>9 <sup>27</sup> / <sub>32</sub>  | 70<br>2 <sup>3</sup> / <sub>4</sub>   | 22<br>55 <sup>5</sup> / <sub>64</sub> | 30<br>¾                               | 208<br>8 <sup>3</sup> / <sub>16</sub>  | 75<br>2.9528  | 30<br>1.181 | M20<br>¾                             | UC313D1<br>UC313-208D1<br>UC313-209D1                               |
| 70<br>2 <sup>5</sup> / <sub>8</sub><br>2 <sup>11</sup> / <sub>16</sub><br>2 <sup>3</sup> / <sub>4</sub>        | UCIP314D1<br>UCIP314-210D1<br>UCIP314-211D1<br>UCIP314-212D1                  | 110<br>4 <sup>21</sup> / <sub>64</sub> | 330<br>13                               | 270<br>10 <sup>5</sup> / <sub>8</sub>   | 75<br>2 <sup>15</sup> / <sub>16</sub> | 25<br>63 <sup>3</sup> / <sub>64</sub> | 35<br>1 <sup>3</sup> / <sub>8</sub>   | 215<br>8 <sup>15</sup> / <sub>32</sub> | 78<br>3.0709  | 33<br>1.299 | M22<br>7 <sup>7</sup> / <sub>8</sub> | UC314D1<br>UC314-210D1<br>UC314-211D1<br>UC314-212D1                |
| 75<br>2 <sup>13</sup> / <sub>16</sub><br>2 <sup>7</sup> / <sub>8</sub><br>2 <sup>15</sup> / <sub>16</sub><br>3 | UCIP315D1<br>UCIP315-213D1<br>UCIP315-214D1<br>UCIP315-215D1<br>UCIP315-300D1 | 120<br>4 <sup>23</sup> / <sub>32</sub> | 340<br>13 <sup>3</sup> / <sub>8</sub>   | 280<br>11 <sup>1</sup> / <sub>32</sub>  | 75<br>2 <sup>15</sup> / <sub>16</sub> | 25<br>63 <sup>3</sup> / <sub>64</sub> | 35<br>1 <sup>3</sup> / <sub>8</sub>   | 230<br>9 <sup>1</sup> / <sub>16</sub>  | 82<br>3.2283  | 32<br>1.260 | M22<br>7 <sup>7</sup> / <sub>8</sub> | UC315D1<br>UC315-213D1<br>UC315-214D1<br>UC315-215D1<br>UC315-300D1 |
| 80<br>3 <sup>1</sup> / <sub>16</sub><br>3 <sup>1</sup> / <sub>8</sub><br>3 <sup>3</sup> / <sub>16</sub>        | UCIP316D1<br>UCIP316-301D1<br>UCIP316-302D1<br>UCIP316-303D1                  | 120<br>4 <sup>23</sup> / <sub>32</sub> | 350<br>13 <sup>25</sup> / <sub>32</sub> | 290<br>11 <sup>27</sup> / <sub>64</sub> | 85<br>3 <sup>11</sup> / <sub>32</sub> | 25<br>63 <sup>3</sup> / <sub>64</sub> | 40<br>1 <sup>9</sup> / <sub>16</sub>  | 235<br>9 <sup>1</sup> / <sub>4</sub>   | 86<br>3.3858  | 34<br>1.339 | M22<br>7 <sup>7</sup> / <sub>8</sub> | UC316D1<br>UC316-301D1<br>UC316-302D1<br>UC316-303D1                |
| 85<br>3¼<br>3 <sup>5</sup> / <sub>16</sub><br>3 <sup>7</sup> / <sub>16</sub>                                   | UCIP317D1<br>UCIP317-304D1<br>UCIP317-305D1<br>UCIP317-307D1                  | 130<br>5 <sup>1</sup> / <sub>8</sub>   | 370<br>14 <sup>9</sup> / <sub>16</sub>  | 310<br>12 <sup>13</sup> / <sub>64</sub> | 85<br>3 <sup>11</sup> / <sub>32</sub> | 25<br>63 <sup>3</sup> / <sub>64</sub> | 40<br>1 <sup>9</sup> / <sub>16</sub>  | 255<br>10 <sup>1</sup> / <sub>32</sub> | 96<br>3.7795  | 40<br>1.575 | M22<br>7 <sup>7</sup> / <sub>8</sub> | UC317D1<br>UC317-304D1<br>UC317-305D1<br>UC317-307D1                |
| 90<br>3 <sup>7</sup> / <sub>16</sub><br>3½                                                                     | UCIP318D1<br>UCIP318-307D1<br>UCIP318-308D1                                   | 130<br>5 <sup>1</sup> / <sub>8</sub>   | 400<br>15 <sup>3</sup> / <sub>4</sub>   | 330<br>12 <sup>63</sup> / <sub>64</sub> | 85<br>3 <sup>11</sup> / <sub>32</sub> | 30<br>1 <sup>3</sup> / <sub>16</sub>  | 45<br>1 <sup>25</sup> / <sub>32</sub> | 260<br>10 <sup>1</sup> / <sub>4</sub>  | 96<br>3.7795  | 40<br>1.575 | M27<br>1                             | UC318D1<br>UC318-307D1<br>UC318-308D1                               |
| 95<br>3 <sup>5</sup> / <sub>8</sub><br>3 <sup>11</sup> / <sub>16</sub><br>3¾                                   | UCIP319D1<br>UCIP319-310D1<br>UCIP319-311D1<br>UCIP319-312D1                  | 150<br>5 <sup>29</sup> / <sub>32</sub> | 410<br>16 <sup>5</sup> / <sub>32</sub>  | 340<br>13 <sup>25</sup> / <sub>64</sub> | 85<br>3 <sup>11</sup> / <sub>32</sub> | 30<br>1 <sup>3</sup> / <sub>16</sub>  | 45<br>1 <sup>25</sup> / <sub>32</sub> | 285<br>11 <sup>7</sup> / <sub>32</sub> | 103<br>4.0551 | 41<br>1.614 | M27<br>1                             | UC319D1<br>UC319-310D1<br>UC319-311D1<br>UC319-312D1                |

Remarks: 1) These number indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".  
 Note: Please refer to page 36 for size of grease fitting.

| Housing<br>number <sup>1)</sup> | Mass<br>(approx.) |
|---------------------------------|-------------------|
|                                 | kg lb             |
| IP313D1                         | 17                |
| IP313D1                         | 37                |
| IP314D1                         | 20                |
| IP314D1                         | 44                |
| IP315D1                         | 23                |
| IP315D1                         | 51                |
| IP316D1                         | 27                |
| IP316D1                         | 60                |
| IP317D1                         | 32                |
| IP317D1                         | 71                |
| IP318D1                         | 34                |
| IP318D1                         | 75                |
| IP319D1                         | 39                |
| IP319D1                         | 86                |

# Thick pillow blocks cast housing

## Set screw type



| Shaft<br>dia.                          | Unit number <sup>1)</sup>  | Nominal dimensions              |                                  |                                 |                                 |                                |                                 |                                |          |          | Bolt<br>size | Bearing number |            |
|----------------------------------------|----------------------------|---------------------------------|----------------------------------|---------------------------------|---------------------------------|--------------------------------|---------------------------------|--------------------------------|----------|----------|--------------|----------------|------------|
|                                        |                            |                                 |                                  |                                 | mm                              | inch                           |                                 |                                |          |          |              |                |            |
|                                        |                            | <i>H</i>                        | <i>L</i>                         | <i>J</i>                        | <i>A</i>                        | <i>N</i>                       | <i>H</i> <sub>1</sub>           | <i>H</i> <sub>2</sub>          | <i>B</i> | <i>S</i> |              |                | mm<br>inch |
| 100<br>3 <sup>13</sup> / <sub>16</sub> | UCIP320D1<br>UCIP320-313D1 | 150                             | 430                              | 360                             | 85                              | 30                             | 45                              | 295                            | 108      | 42       | M27          | UC320D1        |            |
| 3 <sup>7</sup> / <sub>8</sub>          | UCIP320-314D1              | 5 <sup>29</sup> / <sub>32</sub> | 16 <sup>15</sup> / <sub>16</sub> | 14 <sup>3</sup> / <sub>16</sub> | 3 <sup>11</sup> / <sub>32</sub> | 1 <sup>3</sup> / <sub>16</sub> | 1 <sup>25</sup> / <sub>32</sub> | 11 <sup>5</sup> / <sub>8</sub> | 4.2520   | 1.654    | 1            | UC320-313D1    |            |
| 3 <sup>15</sup> / <sub>16</sub>        | UCIP320-315D1              |                                 |                                  |                                 |                                 |                                |                                 |                                |          |          |              | UC320-314D1    |            |
| 4                                      | UCIP320-400D1              |                                 |                                  |                                 |                                 |                                |                                 |                                |          |          |              | UC320-315D1    |            |
|                                        |                            |                                 |                                  |                                 |                                 |                                |                                 |                                |          |          |              | UC320-400D1    |            |
| 110                                    | UCIP322D1                  | 170                             | 490                              | 410                             | 100                             | 33                             | 50                              | 335                            | 117      | 46       | M30          | UC322D1        |            |
| 120                                    | UCIP324D1                  | 170                             | 510                              | 430                             | 100                             | 33                             | 50                              | 345                            | 126      | 51       | M30          | UC324D1        |            |
| 130                                    | UCIP326D1                  | 200                             | 550                              | 470                             | 110                             | 33                             | 50                              | 390                            | 135      | 54       | M30          | UC326D1        |            |
| 140                                    | UCIP328D1                  | 200                             | 590                              | 500                             | 110                             | 36                             | 55                              | 400                            | 145      | 59       | M33          | UC328D1        |            |

Remarks: 1) These number indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

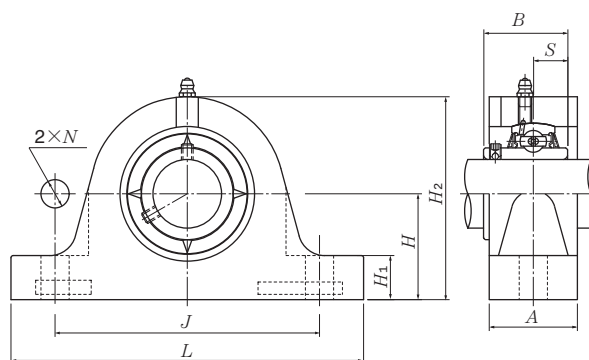
Note: Please refer to page 36 for size of grease fitting.

| Housing<br>number <sup>1)</sup> | Mass<br>(approx.) |
|---------------------------------|-------------------|
|                                 | kg lb             |
| IP320D1                         | 43                |
| IP320D1                         | 95                |
| IP322D1                         | 64                |
| IP324D1                         | 70                |
| IP326D1                         | 96                |
| IP328D1                         | 104               |



# Thick pillow blocks (Steel series)

## Set screw type



### UCIPG2

| Shaft dia.<br>mm | Unit number <sup>1)</sup> | Nominal dimensions |     |     |    |    |                |                |      |      | Bolt size<br>mm | Bearing number |
|------------------|---------------------------|--------------------|-----|-----|----|----|----------------|----------------|------|------|-----------------|----------------|
|                  |                           | H                  | L   | J   | A  | N  | H <sub>1</sub> | H <sub>2</sub> | B    | S    |                 |                |
| 40               | UCIPG208D1                | 60                 | 200 | 150 | 60 | 19 | 25             | 115            | 49.2 | 19   | M16             | UC208D1        |
| 45               | UCIPG209D1                | 70                 | 210 | 160 | 60 | 19 | 25             | 128            | 49.2 | 19   | M16             | UC209D1        |
| 50               | UCIPG210D1                | 70                 | 220 | 170 | 60 | 19 | 28             | 132            | 51.6 | 19   | M16             | UC210D1        |
| 55               | UCIPG211D1                | 80                 | 230 | 180 | 60 | 19 | 28             | 148            | 55.6 | 22.2 | M16             | UC211D1        |
| 60               | UCIPG212D1                | 80                 | 260 | 200 | 70 | 22 | 30             | 155            | 65.1 | 25.4 | M20             | UC212D1        |
| 65               | UCIPG213D1                | 90                 | 280 | 220 | 70 | 22 | 30             | 172            | 65.1 | 25.4 | M20             | UC213D1        |

### UCIPG3

| Shaft dia.<br>mm | Unit number <sup>1)</sup> | Nominal dimensions |     |     |     |    |                |                |     |    | Bolt size<br>mm | Bearing number |
|------------------|---------------------------|--------------------|-----|-----|-----|----|----------------|----------------|-----|----|-----------------|----------------|
|                  |                           | H                  | L   | J   | A   | N  | H <sub>1</sub> | H <sub>2</sub> | B   | S  |                 |                |
| 65               | UCIPG313D1                | 110                | 310 | 250 | 70  | 22 | 30             | 208            | 75  | 30 | M20             | UC313D1        |
| 70               | UCIPG314D1                | 110                | 330 | 270 | 75  | 25 | 35             | 215            | 78  | 33 | M22             | UC314D1        |
| 75               | UCIPG315D1                | 120                | 340 | 280 | 75  | 25 | 35             | 230            | 82  | 32 | M22             | UC315D1        |
| 80               | UCIPG316D1                | 120                | 350 | 290 | 85  | 25 | 40             | 235            | 86  | 34 | M22             | UC316D1        |
| 85               | UCIPG317D1                | 130                | 370 | 310 | 85  | 25 | 40             | 255            | 96  | 40 | M22             | UC317D1        |
| 90               | UCIPG318D1                | 130                | 400 | 330 | 85  | 30 | 45             | 260            | 96  | 40 | M27             | UC318D1        |
| 95               | UCIPG319D1                | 150                | 410 | 340 | 85  | 30 | 45             | 285            | 103 | 41 | M27             | UC319D1        |
| 100              | UCIPG320D1                | 150                | 430 | 360 | 85  | 30 | 45             | 295            | 108 | 42 | M27             | UC320D1        |
| 110              | UCIPG322D1                | 170                | 490 | 410 | 100 | 33 | 50             | 335            | 117 | 46 | M30             | UC322D1        |
| 120              | UCIPG324D1                | 170                | 510 | 430 | 100 | 33 | 50             | 345            | 126 | 51 | M30             | UC324D1        |
| 130              | UCIPG326D1                | 200                | 550 | 470 | 110 | 33 | 50             | 390            | 135 | 54 | M30             | UC326D1        |
| 140              | UCIPG328D1                | 200                | 590 | 500 | 110 | 36 | 55             | 400            | 145 | 59 | M33             | UC328D1        |

Remarks: 1) These number indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

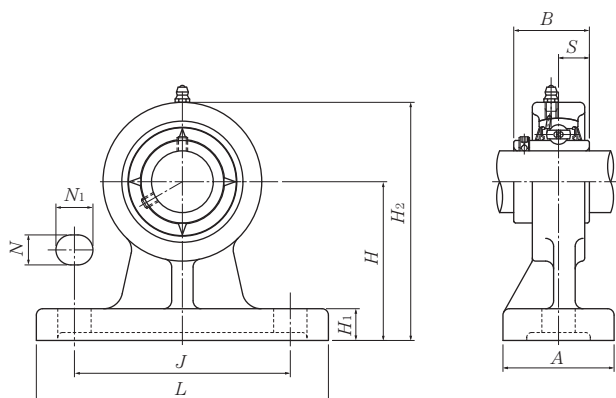
Note: 1) Please refer to page 36 for size of grease fitting.

2) Please refer to page 410-420 for inch series bearings.

| Housing <sup>1)</sup><br>number | Mass<br>(approx.)<br><br>kg |
|---------------------------------|-----------------------------|
| IPG208D1                        | 4.8                         |
| IPG209D1                        | 5.5                         |
| IPG210D1                        | 6.1                         |
| IPG211D1                        | 7.3                         |
| IPG212D1                        | 9.7                         |
| IPG213D1                        | 12                          |

| Housing <sup>1)</sup><br>number | Mass<br>(approx.)<br><br>kg |
|---------------------------------|-----------------------------|
| IPG313D1                        | 17                          |
| IPG314D1                        | 20                          |
| IPG315D1                        | 23                          |
| IPG316D1                        | 27                          |
| IPG317D1                        | 32                          |
| IPG318D1                        | 34                          |
| IPG319D1                        | 39                          |
| IPG320D1                        | 43                          |
| IPG322D1                        | 64                          |
| IPG324D1                        | 70                          |
| IPG326D1                        | 96                          |
| IPG328D1                        | 104                         |

# Pillow blocks cast housing high center height Set screw type

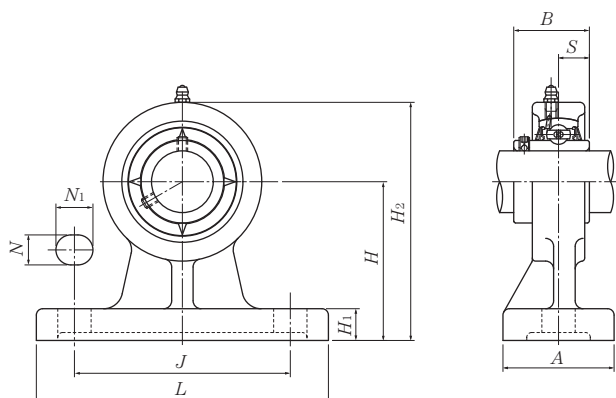


| Shaft<br>dia.                            | Unit number <sup>1)</sup>                                                     | Nominal dimensions |                |                |               |              |                |                |                |                |               | Bolt<br>size | Bearing number                                                      |
|------------------------------------------|-------------------------------------------------------------------------------|--------------------|----------------|----------------|---------------|--------------|----------------|----------------|----------------|----------------|---------------|--------------|---------------------------------------------------------------------|
|                                          |                                                                               | H                  | L              | J              | A             | N            | N <sub>1</sub> | H <sub>1</sub> | H <sub>2</sub> | B              | S             |              |                                                                     |
| 12<br>1/2                                | UCHP201D1<br>UCHP201-008D1                                                    | 70<br>2 3/4        | 127<br>5       | 95<br>3 3/4    | 40<br>1 9/16  | 13<br>1/2    | 19<br>3/4      | 13<br>1/2      | 101<br>3 31/32 | 31<br>1.2205   | 12.7<br>0.500 | M10<br>3/8   | UC201D1<br>UC201-008D1                                              |
| 15<br>9/16<br>5/8                        | UCHP202D1<br>UCHP202-009D1<br>UCHP202-010D1                                   | 70<br>2 3/4        | 127<br>5       | 95<br>3 3/4    | 40<br>1 9/16  | 13<br>1/2    | 19<br>3/4      | 13<br>1/2      | 101<br>3 31/32 | 31<br>1.2205   | 12.7<br>0.500 | M10<br>3/8   | UC202D1<br>UC202-009D1<br>UC202-010D1                               |
| 17<br>1 1/16                             | UCHP203D1<br>UCHP203-011D1                                                    | 70<br>2 3/4        | 127<br>5       | 95<br>3 3/4    | 40<br>1 9/16  | 13<br>1/2    | 19<br>3/4      | 13<br>1/2      | 101<br>3 31/32 | 31<br>1.2205   | 12.7<br>0.500 | M10<br>3/8   | UC203D1<br>UC203-011D1                                              |
| 20<br>3/4                                | UCHP204D1<br>UCHP204-012D1                                                    | 70<br>2 3/4        | 127<br>5       | 95<br>3 3/4    | 40<br>1 9/16  | 13<br>1/2    | 19<br>3/4      | 13<br>1/2      | 101<br>3 31/32 | 31<br>1.2205   | 12.7<br>0.500 | M10<br>3/8   | UC204D1<br>UC204-012D1                                              |
| 25<br>1 3/16<br>7/8<br>1 5/16<br>1       | UCHP205D1<br>UCHP205-013D1<br>UCHP205-014D1<br>UCHP205-015D1<br>UCHP205-100D1 | 80<br>3 1/2        | 142<br>5 19/32 | 105<br>4 1/8   | 50<br>1 31/32 | 13<br>1/2    | 19<br>3/4      | 13<br>1/2      | 114<br>4 1/2   | 34.1<br>1.3425 | 14.3<br>0.563 | M10<br>3/8   | UC205D1<br>UC205-013D1<br>UC205-014D1<br>UC205-015D1<br>UC205-100D1 |
| 30<br>1 1/16<br>1 1/8<br>1 3/16<br>1 1/4 | UCHP206D1<br>UCHP206-101D1<br>UCHP206-102D1<br>UCHP206-103D1<br>UCHP206-104D1 | 90<br>3 35/64      | 165<br>6 1/2   | 120<br>4 23/32 | 50<br>1 31/32 | 17<br>2 1/32 | 21<br>13/16    | 16<br>5/8      | 130<br>5 1/8   | 38.1<br>1.5000 | 15.9<br>0.626 | M14<br>1/2   | UC206D1<br>UC206-101D1<br>UC206-102D1<br>UC206-103D1<br>UC206-104D1 |
| 35<br>1 1/4<br>1 5/16<br>1 3/8<br>1 7/16 | UCHP207D1<br>UCHP207-104D1<br>UCHP207-105D1<br>UCHP207-106D1<br>UCHP207-107D1 | 95<br>3 47/64      | 166<br>6 17/32 | 127<br>5       | 60<br>2 3/8   | 17<br>2 1/32 | 21<br>13/16    | 18<br>23/32    | 140<br>5 1/2   | 42.9<br>1.6890 | 17.5<br>0.689 | M14<br>1/2   | UC207D1<br>UC207-104D1<br>UC207-105D1<br>UC207-106D1<br>UC207-107D1 |
| 40<br>1 1/2<br>1 9/16                    | UCHP208D1<br>UCHP208-108D1<br>UCHP208-109D1                                   | 100<br>3 15/16     | 184<br>7 1/4   | 136<br>5 11/32 | 70<br>2 3/4   | 17<br>2 1/32 | 21<br>13/16    | 20<br>25/32    | 150<br>5 29/32 | 49.2<br>1.9370 | 19<br>0.748   | M14<br>1/2   | UC208D1<br>UC208-108D1<br>UC208-109D1                               |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".  
Note: Please refer to page 36 for size of grease fitting.

| Housing<br>number <sup>1)</sup> | Mass<br>(approx.) |    |
|---------------------------------|-------------------|----|
|                                 | kg                | lb |
| HP204D1                         | 0.9               |    |
| HP204D1                         | 2.0               |    |
| HP204D1                         | 0.9               |    |
| HP204D1                         | 2.0               |    |
| HP204D1                         |                   |    |
| HP204D1                         | 0.9               |    |
| HP204D1                         | 2.0               |    |
| HP204D1                         | 0.9               |    |
| HP204D1                         | 2.0               |    |
| HP205D1                         | 1.2               |    |
| HP205D1                         |                   |    |
| HP205D1                         | 2.7               |    |
| HP205D1                         |                   |    |
| HP205D1                         |                   |    |
| HP206D1                         | 1.8               |    |
| HP206D1                         |                   |    |
| HP206D1                         | 4.0               |    |
| HP206D1                         |                   |    |
| HP206D1                         |                   |    |
| HP207D1                         | 2.3               |    |
| HP207D1                         |                   |    |
| HP207D1                         | 5.1               |    |
| HP207D1                         |                   |    |
| HP207D1                         |                   |    |
| HP208D1                         | 3.2               |    |
| HP208D1                         | 7.1               |    |
| HP208D1                         |                   |    |

**Pillow blocks cast housing high center height**  
**Set screw type**



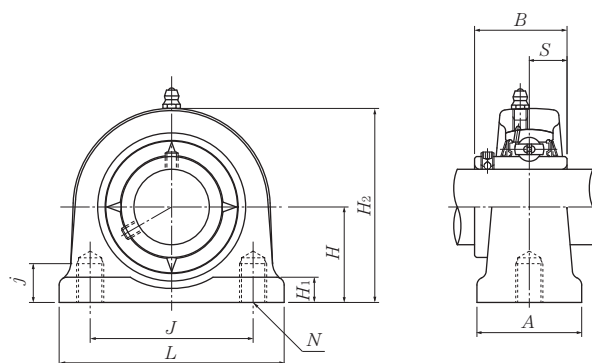
| Shaft<br>dia.                       | Unit number <sup>1)</sup> | Nominal dimensions              |                                 |                               |                               |                                |                       |                       |                                |          |          | Bolt<br>size | Bearing number |
|-------------------------------------|---------------------------|---------------------------------|---------------------------------|-------------------------------|-------------------------------|--------------------------------|-----------------------|-----------------------|--------------------------------|----------|----------|--------------|----------------|
|                                     |                           |                                 |                                 |                               |                               |                                |                       |                       |                                |          |          |              |                |
|                                     |                           | mm<br>inch                      |                                 |                               |                               |                                | mm                    | inch                  |                                |          |          |              |                |
|                                     |                           | <i>H</i>                        | <i>L</i>                        | <i>J</i>                      | <i>A</i>                      | <i>N</i>                       | <i>N</i> <sub>1</sub> | <i>H</i> <sub>1</sub> | <i>H</i> <sub>2</sub>          | <i>B</i> | <i>S</i> |              |                |
| <b>45</b>                           | <b>UCHP209D1</b>          | 105                             | 190                             | 146                           | 70                            | 17                             | 22                    | 20                    | 158                            | 49.2     | 19       | M14          | UC209D1        |
| <b>1<sup>5</sup>/<sub>8</sub></b>   | <b>UCHP209-110D1</b>      |                                 |                                 |                               |                               |                                |                       |                       |                                |          |          |              | UC209-110D1    |
| <b>1<sup>11</sup>/<sub>16</sub></b> | <b>UCHP209-111D1</b>      | 4 <sup>9</sup> / <sub>64</sub>  | 7 <sup>15</sup> / <sub>32</sub> | 5 <sup>3</sup> / <sub>4</sub> | 2 <sup>3</sup> / <sub>4</sub> | 2 <sup>1</sup> / <sub>32</sub> | 7/8                   | 25/32                 | 6 <sup>7</sup> / <sub>32</sub> | 1.9370   | 0.748    | 1/2          | UC209-111D1    |
| <b>1<sup>3</sup>/<sub>4</sub></b>   | <b>UCHP209-112D1</b>      |                                 |                                 |                               |                               |                                |                       |                       |                                |          |          |              | UC209-112D1    |
| <b>50</b>                           | <b>UCHP210D1</b>          | 110                             | 206                             | 159                           | 70                            | 20                             | 22                    | 22                    | 165                            | 51.6     | 19       | M16          | UC210D1        |
| <b>1<sup>13</sup>/<sub>16</sub></b> | <b>UCHP210-113D1</b>      |                                 |                                 |                               |                               |                                |                       |                       |                                |          |          |              | UC210-113D1    |
| <b>1<sup>7</sup>/<sub>8</sub></b>   | <b>UCHP210-114D1</b>      | 4 <sup>21</sup> / <sub>64</sub> | 8 <sup>1</sup> / <sub>8</sub>   | 6 <sup>1</sup> / <sub>4</sub> | 2 <sup>3</sup> / <sub>4</sub> | 25/32                          | 7/8                   | 7/8                   | 6 <sup>1</sup> / <sub>2</sub>  | 2.0315   | 0.748    | 5/8          | UC210-114D1    |
| <b>1<sup>15</sup>/<sub>16</sub></b> | <b>UCHP210-115D1</b>      |                                 |                                 |                               |                               |                                |                       |                       |                                |          |          |              | UC210-115D1    |
| <b>2</b>                            | <b>UCHP210-200D1</b>      |                                 |                                 |                               |                               |                                |                       |                       |                                |          |          |              | UC210-200D1    |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

| Housing <sup>1)</sup><br>number | Mass<br>(approx.) |    |
|---------------------------------|-------------------|----|
|                                 | kg                | lb |
| HP209D1                         | 3.5               |    |
| HP209D1                         |                   |    |
| HP209D1                         | 7.7               |    |
| HP209D1                         |                   |    |
| HP210D1                         | 3.9               |    |
| HP210D1                         |                   |    |
| HP210D1                         | 8.6               |    |
| HP210D1                         |                   |    |
| HP210D1                         |                   |    |

# Narrow pillow blocks cast housing Set screw type



| Shaft<br>dia.                     | Unit number <sup>1)</sup>                                                                                        | Nominal dimensions |           |          |          |           |                       |                       |                |               |           | Bearing number                                                             |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------|-----------|----------|----------|-----------|-----------------------|-----------------------|----------------|---------------|-----------|----------------------------------------------------------------------------|
|                                   |                                                                                                                  | mm                 |           |          |          |           | inch                  |                       |                |               |           |                                                                            |
|                                   |                                                                                                                  | <i>H</i>           | <i>L</i>  | <i>J</i> | <i>A</i> | <i>j</i>  | <i>H</i> <sub>1</sub> | <i>H</i> <sub>2</sub> | <i>B</i>       | <i>S</i>      | <i>N</i>  |                                                                            |
| <b>12</b><br>1½                   | <b>UCUP201D1</b><br><b>UCUP201-008D1</b>                                                                         | 30.2<br>1⅜         | 76<br>3   | 52<br>2⅛ | 38<br>1½ | 13<br>½   | 11<br>⅞               | 62<br>2⅞              | 31<br>1.2205   | 12.7<br>0.500 | M10 × 1.5 | <b>UC201D1</b><br>UC201-008D1                                              |
| <b>15</b><br>9⅙<br>5⅘             | <b>UCUP202D1</b><br><b>UCUP202-009D1</b><br><b>UCUP202-010D1</b>                                                 | 30.2<br>1⅜         | 76<br>3   | 52<br>2⅛ | 38<br>1½ | 13<br>½   | 11<br>⅞               | 62<br>2⅞              | 31<br>1.2205   | 12.7<br>0.500 | M10 × 1.5 | <b>UC202D1</b><br>UC202-009D1<br>UC202-010D1                               |
| <b>17</b><br>1⅙                   | <b>UCUP203D1</b><br><b>UCUP203-011D1</b>                                                                         | 30.2<br>1⅜         | 76<br>3   | 52<br>2⅛ | 38<br>1½ | 13<br>½   | 11<br>⅞               | 62<br>2⅞              | 31<br>1.2205   | 12.7<br>0.500 | M10 × 1.5 | <b>UC203D1</b><br>UC203-011D1                                              |
| <b>20</b><br>¾                    | <b>UCUP204D1</b><br><b>UCUP204-012D1</b>                                                                         | 30.2<br>1⅜         | 76<br>3   | 52<br>2⅛ | 38<br>1½ | 13<br>½   | 11<br>⅞               | 62<br>2⅞              | 31<br>1.2205   | 12.7<br>0.500 | M10 × 1.5 | <b>UC204D1</b><br>UC204-012D1                                              |
| <b>25</b><br>1⅜<br>7⅘<br>15⅙<br>1 | <b>UCUP205D1</b><br><b>UCUP205-013D1</b><br><b>UCUP205-014D1</b><br><b>UCUP205-015D1</b><br><b>UCUP205-100D1</b> | 36.5<br>1⅞         | 84<br>3⅝  | 56<br>2⅞ | 38<br>1½ | 15<br>19⅓ | 12<br>15⅓             | 72<br>2⅔              | 34.1<br>1.3425 | 14.3<br>0.563 | M10 × 1.5 | <b>UC205D1</b><br>UC205-013D1<br>UC205-014D1<br>UC205-015D1<br>UC205-100D1 |
| <b>30</b><br>1⅙<br>1⅙<br>1⅜<br>1¼ | <b>UCUP206D1</b><br><b>UCUP206-101D1</b><br><b>UCUP206-102D1</b><br><b>UCUP206-103D1</b><br><b>UCUP206-104D1</b> | 42.9<br>1⅞         | 94<br>3⅙  | 66<br>2⅑ | 48<br>1⅞ | 18<br>23⅓ | 12<br>15⅓             | 84<br>3⅝              | 38.1<br>1.5000 | 15.9<br>0.629 | M14 × 2   | <b>UC206D1</b><br>UC206-101D1<br>UC206-102D1<br>UC206-103D1<br>UC206-104D1 |
| <b>35</b><br>1¼<br>1⅝<br>1⅜<br>1⅞ | <b>UCUP207D1</b><br><b>UCUP207-104D1</b><br><b>UCUP207-105D1</b><br><b>UCUP207-106D1</b><br><b>UCUP207-107D1</b> | 47.6<br>1⅞         | 110<br>4⅙ | 80<br>3⅝ | 48<br>1⅞ | 20<br>25⅓ | 13<br>½               | 95<br>3¾              | 42.9<br>1.6890 | 17.5<br>0.689 | M14 × 2   | <b>UC207D1</b><br>UC207-104D1<br>UC207-105D1<br>UC207-106D1<br>UC207-107D1 |
| <b>40</b><br>1½<br>1⅙             | <b>UCUP208D1</b><br><b>UCUP208-108D1</b><br><b>UCUP208-109D1</b>                                                 | 49.2<br>1⅝         | 116<br>4⅙ | 84<br>3⅝ | 54<br>2⅙ | 20<br>25⅓ | 13<br>½               | 100<br>3⅝             | 49.2<br>1.9370 | 19<br>0.748   | M14 × 2   | <b>UC208D1</b><br>UC208-108D1<br>UC208-109D1                               |
| <b>45</b><br>1⅝<br>1⅙<br>1¾       | <b>UCUP209D1</b><br><b>UCUP209-110D1</b><br><b>UCUP209-111D1</b><br><b>UCUP209-112D1</b>                         | 54.2<br>2⅙         | 120<br>4⅔ | 90<br>3⅞ | 54<br>2⅙ | 25<br>3⅓  | 13<br>½               | 108<br>4¼             | 49.2<br>1.9370 | 19<br>0.748   | M14 × 2   | <b>UC209D1</b><br>UC209-110D1<br>UC209-111D1<br>UC209-112D1                |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

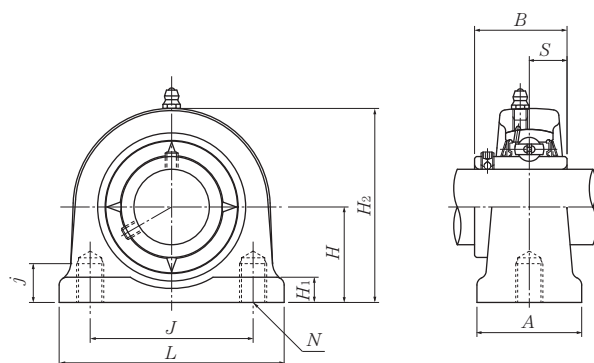
Note: Please refer to page 36 for size of grease fitting.

| Housing<br>number <sup>1)</sup> | Mass<br>(approx.) |
|---------------------------------|-------------------|
|                                 | kg lb             |
| UP204D1                         | 0.6               |
| UP204D1                         | 1.3               |
| UP204D1                         | 0.6               |
| UP204D1                         | 1.3               |
| UP204D1                         |                   |
| UP204D1                         | 0.6               |
| UP204D1                         | 1.3               |
| UP204D1                         | 0.6               |
| UP204D1                         | 1.3               |
| UP205D1                         | 0.7               |
| UP205D1                         |                   |
| UP205D1                         | 1.5               |
| UP205D1                         |                   |
| UP205D1                         |                   |
| UP206D1                         | 1.1               |
| UP206D1                         |                   |
| UP206D1                         | 2.4               |
| UP206D1                         |                   |
| UP206D1                         |                   |
| UP207D1                         | 1.6               |
| UP207D1                         |                   |
| UP207D1                         | 3.5               |
| UP207D1                         |                   |
| UP207D1                         |                   |
| UP208D1                         | 1.8               |
| UP208D1                         | 4.0               |
| UP208D1                         |                   |
| UP209D1                         | 2.1               |
| UP209D1                         |                   |
| UP209D1                         | 4.6               |
| UP209D1                         |                   |



# **Narrow pillow blocks cast housing**

## **Set screw type**



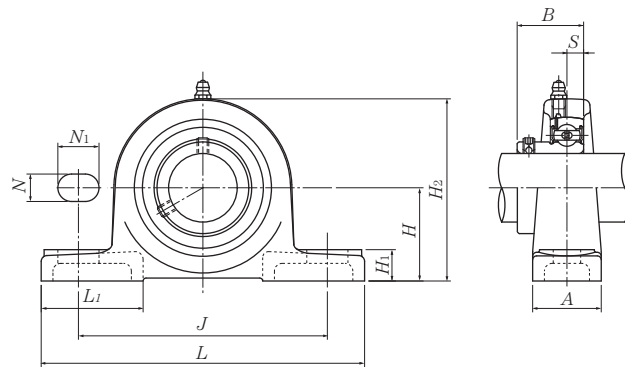
| Shaft<br>dia.                                                                                                  | Unit number <sup>1)</sup>                                                     | Nominal dimensions                    |                                      |                                       |                                     |                                      |                        |                                       |                |             |          | Bearing number                                                      |
|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-------------------------------------|--------------------------------------|------------------------|---------------------------------------|----------------|-------------|----------|---------------------------------------------------------------------|
|                                                                                                                |                                                                               | mm                                    |                                      |                                       |                                     |                                      | inch                   |                                       |                |             |          |                                                                     |
|                                                                                                                |                                                                               | <i>H</i>                              | <i>L</i>                             | <i>J</i>                              | <i>A</i>                            | <i>j</i>                             | <i>H</i> <sub>1</sub>  | <i>H</i> <sub>2</sub>                 | <i>B</i>       | <i>S</i>    | <i>N</i> |                                                                     |
| 50<br>1 <sup>13</sup> / <sub>16</sub><br>1 <sup>7</sup> / <sub>8</sub><br>1 <sup>15</sup> / <sub>16</sub><br>2 | UCUP210D1<br>UCUP210-113D1<br>UCUP210-114D1<br>UCUP210-115D1<br>UCUP210-200D1 | 57.2<br>2 <sup>1</sup> / <sub>4</sub> | 130<br>5 <sup>1</sup> / <sub>8</sub> | 94<br>3 <sup>11</sup> / <sub>16</sub> | 60<br>2 <sup>3</sup> / <sub>8</sub> | 25<br>3 <sup>1</sup> / <sub>32</sub> | 14<br>9/ <sub>16</sub> | 116<br>4 <sup>9</sup> / <sub>16</sub> | 51.6<br>2.0315 | 19<br>0.748 | M16 × 2  | UC210D1<br>UC210-113D1<br>UC210-114D1<br>UC210-115D1<br>UC210-200D1 |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

| Housing <sup>1)</sup><br>number | Mass<br>(approx.) |    |
|---------------------------------|-------------------|----|
|                                 | kg                | lb |
| UP210D1                         | 2.6               |    |
| UP210D1                         |                   |    |
| UP210D1                         | 5.7               |    |
| UP210D1                         |                   |    |
| UP210D1                         |                   |    |

Light pillow blocks cast housing  
Set screw type

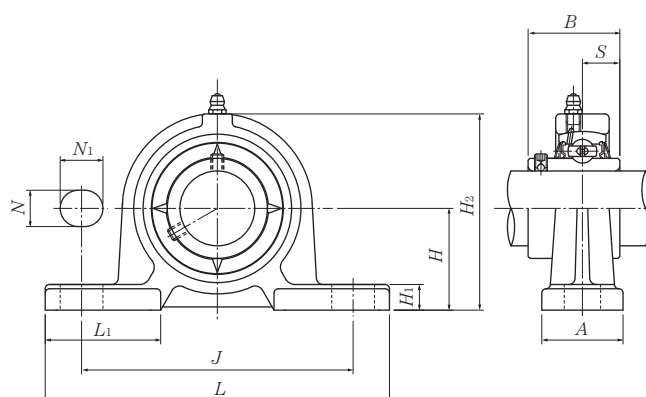


| Shaft<br>dia.                                   | Unit number <sup>1)</sup>                                                                                        | Nominal dimensions |                |                |               |            |                       |                       |                       |                       |              |              |                   | Bolt<br>size                                                               | Bearing number <sup>1)</sup> |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------|----------------|----------------|---------------|------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------|--------------|-------------------|----------------------------------------------------------------------------|------------------------------|
|                                                 |                                                                                                                  | mm                 |                |                |               |            |                       | inch                  |                       |                       |              |              |                   |                                                                            |                              |
|                                                 |                                                                                                                  | <i>H</i>           | <i>L</i>       | <i>J</i>       | <i>A</i>      | <i>N</i>   | <i>N</i> <sub>1</sub> | <i>H</i> <sub>1</sub> | <i>H</i> <sub>2</sub> | <i>L</i> <sub>1</sub> | <i>B</i>     | <i>S</i>     | mm<br>inch        |                                                                            |                              |
| <b>12</b><br>1/2                                | <b>ASPB201D1</b><br><b>ASPB201-008D1</b>                                                                         | 30.2<br>1 3/16     | 114<br>4 1/2   | 87<br>3 7/16   | 25<br>3 1/32  | 11<br>7/16 | 16<br>5/8             | 12<br>15/32           | 57<br>2 1/4           | 38<br>1 1/2           | 22<br>0.8661 | 6<br>0.236   | <b>M8</b><br>5/16 | <b>AS201D1</b><br>AS201-008D1                                              |                              |
| <b>15</b><br>9/16<br>5/8                        | <b>ASPB202D1</b><br><b>ASPB202-009D1</b><br><b>ASPB202-010D1</b>                                                 | 30.2<br>1 3/16     | 114<br>4 1/2   | 87<br>3 7/16   | 25<br>3 1/32  | 11<br>7/16 | 16<br>5/8             | 12<br>15/32           | 57<br>2 1/4           | 38<br>1 1/2           | 22<br>0.8661 | 6<br>0.236   | <b>M8</b><br>5/16 | <b>AS202D1</b><br>AS202-009D1<br>AS202-010D1                               |                              |
| <b>17</b><br>1 1/16                             | <b>ASPB203D1</b><br><b>ASPB203-011D1</b>                                                                         | 30.2<br>1 3/16     | 114<br>4 1/2   | 87<br>3 7/16   | 25<br>3 1/32  | 11<br>7/16 | 16<br>5/8             | 12<br>15/32           | 57<br>2 1/4           | 38<br>1 1/2           | 22<br>0.8661 | 6<br>0.236   | <b>M8</b><br>5/16 | <b>AS203D1</b><br>AS203-011D1                                              |                              |
| <b>20</b><br>3/4                                | <b>ASPB204D1</b><br><b>ASPB204-012D1</b>                                                                         | 33.3<br>1 5/16     | 125<br>4 29/32 | 97<br>3 13/16  | 27<br>1 1/16  | 11<br>7/16 | 16<br>5/8             | 13<br>1/2             | 65<br>2 9/16          | 40<br>1 9/16          | 25<br>0.9843 | 7<br>0.276   | <b>M8</b><br>5/16 | <b>AS204D1</b><br>AS204-012D1                                              |                              |
| <b>25</b><br>13/16<br>7/8<br>15/16<br><b>1</b>  | <b>ASPB205D1</b><br><b>ASPB205-013D1</b><br><b>ASPB205-014D1</b><br><b>ASPB205-015D1</b><br><b>ASPB205-100D1</b> | 36.5<br>1 7/16     | 130<br>5 1/8   | 100<br>3 15/16 | 29<br>1 5/32  | 11<br>7/16 | 16<br>5/8             | 13<br>1/2             | 71<br>2 25/32         | 42<br>1 21/32         | 27<br>1.0630 | 7.5<br>0.295 | <b>M8</b><br>5/16 | <b>AS205D1</b><br>AS205-013D1<br>AS205-014D1<br>AS205-015D1<br>AS205-100D1 |                              |
| <b>30</b><br>1 1/16<br>1 1/8<br>1 3/16<br>1 1/4 | <b>ASPB206D1</b><br><b>ASPB206-101D1</b><br><b>ASPB206-102D1</b><br><b>ASPB206-103D1</b><br><b>ASPB206-104D1</b> | 42.9<br>1 11/16    | 156<br>6 5/32  | 120<br>4 23/32 | 33<br>1 5/16  | 14<br>9/16 | 21<br>13/16           | 14<br>9/16            | 83<br>3 9/32          | 52<br>2 1/16          | 29<br>1.1417 | 8<br>0.315   | <b>M12</b><br>1/2 | <b>AS206D1</b><br>AS206-101D1<br>AS206-102D1<br>AS206-103D1<br>AS206-104D1 |                              |
| <b>35</b><br>1 1/4<br>1 5/16<br>1 3/8<br>1 7/16 | <b>ASPB207D1</b><br><b>ASPB207-104D1</b><br><b>ASPB207-105D1</b><br><b>ASPB207-106D1</b><br><b>ASPB207-107D1</b> | 47.6<br>1 7/8      | 165<br>6 1/2   | 127<br>5       | 35<br>1 3/8   | 14<br>9/16 | 21<br>13/16           | 16<br>5/8             | 93<br>3 21/32         | 52<br>2 1/16          | 34<br>1.3386 | 8.5<br>0.335 | <b>M12</b><br>1/2 | <b>AS207D1</b><br>AS207-104D1<br>AS207-105D1<br>AS207-106D1<br>AS207-107D1 |                              |
| <b>40</b><br>1 1/2<br>1 9/16                    | <b>ASPB208D1</b><br><b>ASPB208-108D1</b><br><b>ASPB208-109D1</b>                                                 | 50.8<br>2          | 184<br>7 1/4   | 140<br>5 1/2   | 37<br>1 15/32 | 14<br>9/16 | 22<br>7/8             | 18<br>23/32           | 102<br>4 1/32         | 52<br>2 1/16          | 38<br>1.4961 | 9<br>0.354   | <b>M12</b><br>1/2 | <b>AS208D1</b><br>AS208-108D1<br>AS208-109D1                               |                              |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".  
Note: Please refer to page 36 for size of grease fitting.

| Housing <sup>1)</sup><br>number | Mass<br>(approx.) |
|---------------------------------|-------------------|
|                                 | kg lb             |
| PB201D1                         | 0.4               |
| PB201D1                         | 0.9               |
| PB20 D1                         | 0.4               |
| PB201D1                         | 0.9               |
| PB201D1                         | 0.4               |
| PB201D1                         | 0.9               |
| PB204D1                         | 0.5               |
| PB204D1                         | 1.1               |
| PB205D1                         | 0.6               |
| PB205D1                         | 1.3               |
| PB206D1                         | 1.0               |
| PB206D1                         | 2.2               |
| PB207D1                         | 1.2               |
| PB207D1                         | 2.7               |
| PB208D1                         | 1.7               |
| PB208D1                         | 3.8               |

# Pillow blocks ductile cast housing (Ductile series) Set screw type



| Shaft<br>dia. | Unit number <sup>1)</sup> | Nominal dimensions |          |          |          |          |                       |                       |                       |                       |          |          |     | Bolt<br>size | Bearing number |
|---------------|---------------------------|--------------------|----------|----------|----------|----------|-----------------------|-----------------------|-----------------------|-----------------------|----------|----------|-----|--------------|----------------|
| mm            |                           | mm                 |          |          |          |          |                       |                       |                       |                       |          |          |     | mm           |                |
|               |                           | <i>H</i>           | <i>L</i> | <i>J</i> | <i>A</i> | <i>N</i> | <i>N</i> <sub>1</sub> | <i>H</i> <sub>1</sub> | <i>H</i> <sub>2</sub> | <i>L</i> <sub>1</sub> | <i>B</i> | <i>S</i> |     |              |                |
| 12            | UCPE201D1                 | 30.2               | 120      | 95       | 30       | 12       | 14                    | 9                     | 61                    | 42                    | 31       | 12.7     | M10 | UC201D1      |                |
| 15            | UCPE202D1                 | 30.2               | 120      | 95       | 30       | 12       | 14                    | 9                     | 61                    | 42                    | 31       | 12.7     | M10 | UC202D1      |                |
| 17            | UCPE203D1                 | 30.2               | 120      | 95       | 30       | 12       | 14                    | 9                     | 61                    | 42                    | 31       | 12.7     | M10 | UC203D1      |                |
| 20            | UCPE204D1                 | 33.3               | 120      | 95       | 30       | 12       | 14                    | 9                     | 64                    | 42                    | 31       | 12.7     | M10 | UC204D1      |                |
| 25            | UCPE205D1                 | 36.5               | 130      | 105      | 30       | 12       | 14                    | 10                    | 70                    | 42                    | 34.1     | 14.3     | M10 | UC205D1      |                |
| 30            | UCPE206D1                 | 42.9               | 155      | 121      | 36       | 17       | 20                    | 11                    | 82                    | 54                    | 38.1     | 15.9     | M14 | UC206D1      |                |
| 35            | UCPE207D1                 | 47.6               | 161      | 127      | 38       | 17       | 20                    | 12                    | 92                    | 54                    | 42.9     | 17.5     | M14 | UC207D1      |                |
| 40            | UCPE208D1                 | 49.2               | 171      | 137      | 40       | 17       | 20                    | 12                    | 98                    | 52                    | 49.2     | 19       | M14 | UC208D1      |                |
| 45            | UCPE209D1                 | 54                 | 180      | 146      | 40       | 17       | 20                    | 13                    | 105                   | 60                    | 49.2     | 19       | M14 | UC209D1      |                |
| 50            | UCPE210D1                 | 57.2               | 195      | 159      | 45       | 19       | 22                    | 14                    | 114                   | 65                    | 51.6     | 19       | M16 | UC210D1      |                |
| 55            | UCPE211D1                 | 63.5               | 207      | 171      | 45       | 19       | 22                    | 15                    | 125                   | 65                    | 55.6     | 22.2     | M16 | UC211D1      |                |
| 60            | UCPE212D1                 | 69.8               | 220      | 184      | 55       | 19       | 22                    | 17                    | 137                   | 70                    | 65.1     | 25.4     | M16 | UC212D1      |                |

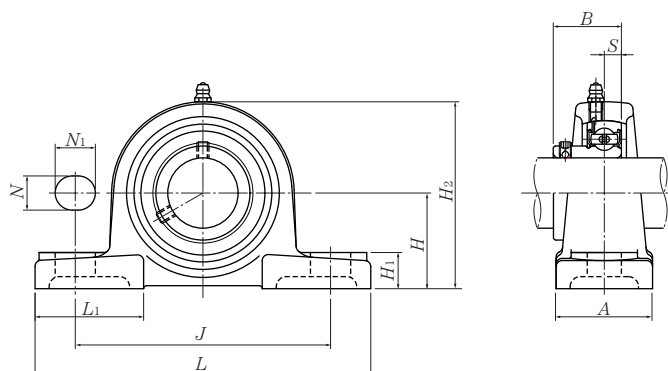
Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: 1) Please refer to page 36 for size of grease fitting.

2) Please refer to page 410-415 for inch series bearings.

| Housing <sup>1)</sup><br>number | Mass<br>(approx.)<br><br>kg |
|---------------------------------|-----------------------------|
| PE203D1                         | 0.5                         |
| PE203D1                         | 0.5                         |
| PE203D1                         | 0.5                         |
| PE204D1                         | 0.4                         |
| PE205D1                         | 0.5                         |
| PE206D1                         | 0.8                         |
| PE207D1                         | 1.1                         |
| PE208D1                         | 1.3                         |
| PE209D1                         | 1.5                         |
| PE210D1                         | 1.8                         |
| PE211D1                         | 2.4                         |
| PE212D1                         | 3.3                         |

# Pillow blocks cast housing low center height Set screw type



| Shaft<br>dia.                    | Unit number <sup>1) 2) 3)</sup>                                               | Nominal dimensions |           |           |          |             |                       |                       |                       |                       |              |              | Bolt<br>size | Bearing number <sup>2)</sup>                                        |
|----------------------------------|-------------------------------------------------------------------------------|--------------------|-----------|-----------|----------|-------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------|--------------|--------------|---------------------------------------------------------------------|
|                                  |                                                                               | mm                 |           |           |          |             | inch                  |                       |                       |                       |              |              |              |                                                                     |
|                                  |                                                                               | <i>H</i>           | <i>L</i>  | <i>J</i>  | <i>A</i> | <i>N</i>    | <i>N</i> <sub>1</sub> | <i>H</i> <sub>1</sub> | <i>H</i> <sub>2</sub> | <i>L</i> <sub>1</sub> | <i>B</i>     | <i>S</i>     |              |                                                                     |
| 12<br>1½                         | ASPL201D1<br>ASPL201-008D1                                                    | 26.99<br>1⅛        | 121<br>4¾ | 89<br>3½  | 35<br>1⅜ | 11<br>7/16  | 14<br>9/16            | 13<br>½               | 54<br>2⅛              | 40<br>1⅞              | 22<br>0.8661 | 6<br>0.236   | M10<br>⅜     | AS201D1<br>AS201-008D1                                              |
| 15<br>9/16<br>5/8                | ASPL202D1<br>ASPL202-009D1<br>ASPL202-010D1                                   | 26.99<br>1⅛        | 121<br>4¾ | 89<br>3½  | 35<br>1⅜ | 11<br>7/16  | 14<br>9/16            | 13<br>½               | 54<br>2⅛              | 40<br>1⅞              | 22<br>0.8661 | 6<br>0.236   | M10<br>⅜     | AS202D1<br>AS202-009D1<br>AS202-010D1                               |
| 17<br>1⅞                         | ASPL203D1<br>ASPL203-011D1                                                    | 26.99<br>1⅛        | 121<br>4¾ | 89<br>3½  | 35<br>1⅜ | 11<br>7/16  | 14<br>9/16            | 13<br>½               | 54<br>2⅛              | 40<br>1⅞              | 22<br>0.8661 | 6<br>0.236   | M10<br>⅜     | AS203D1<br>AS203-011D1                                              |
| 20<br>¾                          | ASPL204D1<br>ASPL204-012D1                                                    | 31.75<br>1¼        | 127<br>5  | 95<br>3¾  | 38<br>1½ | 13<br>½     | 16<br>5/8             | 14<br>9/16            | 64<br>2⅞              | 42<br>1⅞              | 25<br>0.9843 | 7<br>0.276   | M10<br>⅜     | AS204D1<br>AS204-012D1                                              |
| 25<br>13/16<br>7/8<br>15/16<br>1 | ASPL205D1<br>ASPL205-013D1<br>ASPL205-014D1<br>ASPL205-015D1<br>ASPL205-100D1 | 33.34<br>1⅝        | 140<br>5½ | 105<br>4⅞ | 38<br>1½ | 13<br>½     | 16<br>5/8             | 15<br>19/32           | 68<br>2⅞              | 42<br>1⅞              | 27<br>1.0630 | 7.5<br>0.295 | M10<br>⅜     | AS205D1<br>AS205-013D1<br>AS205-014D1<br>AS205-015D1<br>AS205-100D1 |
| 30<br>1⅞<br>1⅞<br>1⅞<br>1¼       | ASPL206D1<br>ASPL206-101D1<br>ASPL206-102D1<br>ASPL206-103D1<br>ASPL206-104D1 | 39.69<br>1⅞        | 165<br>6½ | 121<br>4¾ | 48<br>1⅞ | 17<br>21/32 | 20<br>25/32           | 17<br>21/32           | 80<br>3⅝              | 54<br>2⅞              | 29<br>1.1417 | 8<br>0.315   | M14<br>½     | AS206D1<br>AS206-101D1<br>AS206-102D1<br>AS206-103D1<br>AS206-104D1 |
| 35<br>1¼<br>1⅝<br>1⅝<br>1⅞       | ASPL207D1<br>ASPL207-104D1<br>ASPL207-105D1<br>ASPL207-106D1<br>ASPL207-107D1 | 46.04<br>1⅞        | 167<br>6⅞ | 127<br>5  | 48<br>1⅞ | 17<br>21/32 | 20<br>25/32           | 18<br>23/32           | 91<br>3⅞              | 54<br>2⅞              | 34<br>1.3386 | 8.5<br>0.335 | M14<br>½     | AS207D1<br>AS207-104D1<br>AS207-105D1<br>AS207-106D1<br>AS207-107D1 |
| 40<br>1½<br>1⅞                   | ASP208D1<br>ASP208-108D1<br>ASP208-109D1                                      | 49.2<br>1⅞         | 184<br>7¼ | 137<br>5⅜ | 54<br>2⅞ | 17<br>21/32 | 20<br>25/32           | 18<br>23/32           | 98<br>3⅞              | 52<br>2⅞              | 38<br>1.4961 | 9<br>0.354   | M14<br>½     | AS208D1<br>AS208-108D1<br>AS208-109D1                               |

Remarks: 1) ASPL201 to ASPL205 has solid bases.

2) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

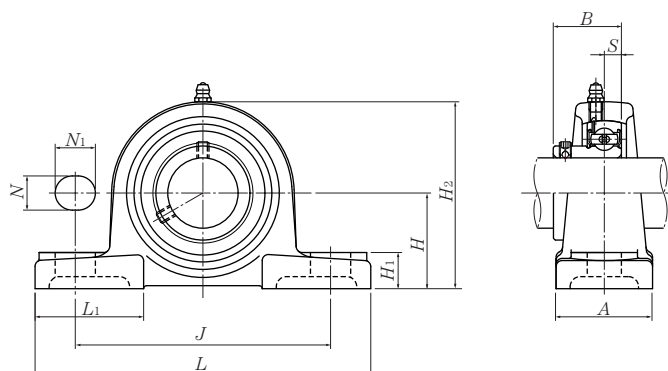
3) ASPL208 has the same dimension as ASP208.

Note: Please refer to page 36 for size of grease fitting.

| Housing <sup>2)</sup><br>number | Mass<br>(approx.) |
|---------------------------------|-------------------|
|                                 | kg lb             |
| PL201D1                         | 0.5               |
| PL201D1                         | 1.1               |
| PL201D1                         | 0.5               |
| PL201D1                         | 1.1               |
| PL201D1                         | 1.1               |
| PL201D1                         | 0.5               |
| PL201D1                         | 1.1               |
| PL204D1                         | 0.7               |
| PL204D1                         | 1.5               |
| PL205D1                         | 0.8               |
| PL205D1                         |                   |
| PL205D1                         | 1.8               |
| PL205D1                         |                   |
| PL205D1                         |                   |
| PL206D1                         | 1.2               |
| PL206D1                         |                   |
| PL206D1                         | 2.6               |
| PL206D1                         |                   |
| PL206D1                         |                   |
| PL207D1                         | 1.5               |
| PL207D1                         |                   |
| PL207D1                         | 3.3               |
| PL207D1                         |                   |
| PL207D1                         |                   |
| P208D1                          | 1.8               |
| P208D1                          | 4.0               |
| P208D1                          |                   |



**Pillow blocks cast housing low center height**  
**Set screw type**



| Shaft<br>dia.                                                                                                  | Unit number <sup>1) 2) 3)</sup>                                               | Nominal dimensions |          |          |          |          |                       |                       |                       |                       |          |          |     | Bolt<br>size                                                        | Bearing number <sup>2)</sup> |
|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------|----------|----------|----------|----------|-----------------------|-----------------------|-----------------------|-----------------------|----------|----------|-----|---------------------------------------------------------------------|------------------------------|
|                                                                                                                |                                                                               | mm                 |          |          |          |          |                       | inch                  |                       |                       |          |          |     |                                                                     |                              |
|                                                                                                                |                                                                               | <i>H</i>           | <i>L</i> | <i>J</i> | <i>A</i> | <i>N</i> | <i>N</i> <sub>1</sub> | <i>H</i> <sub>1</sub> | <i>H</i> <sub>2</sub> | <i>L</i> <sub>1</sub> | <i>B</i> | <i>S</i> |     |                                                                     |                              |
| 45<br>1 <sup>5</sup> / <sub>8</sub><br>1 <sup>11</sup> / <sub>16</sub><br>1 <sup>3</sup> / <sub>4</sub>        | ASPL209D1<br>ASPL209-110D1<br>ASPL209-111D1<br>ASPL209-112D1                  | 52.39              | 190      | 146      | 54       | 17       | 20                    | 20                    | 104                   | 60                    | 40       | 9.5      | M14 | AS209D1<br>AS209-110D1<br>AS209-111D1<br>AS209-112D1                |                              |
| 50<br>1 <sup>13</sup> / <sub>16</sub><br>1 <sup>7</sup> / <sub>8</sub><br>1 <sup>15</sup> / <sub>16</sub><br>2 | ASPL210D1<br>ASPL210-113D1<br>ASPL210-114D1<br>ASPL210-115D1<br>ASPL210-200D1 | 55.56              | 206      | 159      | 60       | 20       | 23                    | 21                    | 112                   | 65                    | 42       | 10       | M16 | AS210D1<br>AS210-113D1<br>AS210-114D1<br>AS210-115D1<br>AS210-200D1 |                              |

Remarks: 1) ASPL201 to ASPL205 has solid bases.

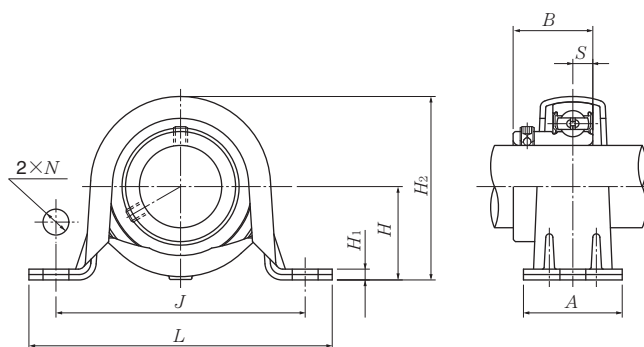
2) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

3) ASPL208 has the same dimension as ASP208.

Note: Please refer to page 36 for size of grease fitting.

| Housing <sup>2)</sup><br>number | Mass<br>(approx.) |    |
|---------------------------------|-------------------|----|
|                                 | kg                | lb |
| PL209D1                         | 2.0               |    |
| PL209D1                         |                   |    |
| PL209D1                         | 4.4               |    |
| PL209D1                         |                   |    |
| PL210D1                         | 2.6               |    |
| PL210D1                         |                   |    |
| PL210D1                         | 5.7               |    |
| PL210D1                         |                   |    |
| PL210D1                         |                   |    |

# Pillow blocks pressed steel housing Set screw type

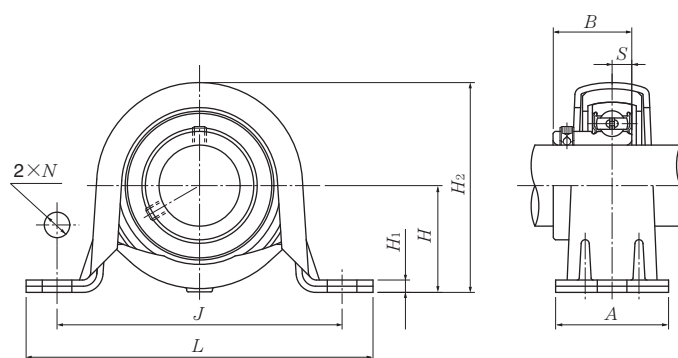


| Shaft<br>dia.          | Unit number                                                         | Nominal dimensions |           |           |          |           |                |                |              |              |          | Bolt<br>size                                              | Bearing<br>number                | Housing<br>number | Mass<br>(approx.) |
|------------------------|---------------------------------------------------------------------|--------------------|-----------|-----------|----------|-----------|----------------|----------------|--------------|--------------|----------|-----------------------------------------------------------|----------------------------------|-------------------|-------------------|
| mm<br>inch             |                                                                     | mm                 |           |           |          |           | inch           |                |              |              |          | mm<br>inch                                                |                                  |                   | kg lb             |
|                        |                                                                     | H                  | L         | J         | A        | N         | H <sub>1</sub> | H <sub>2</sub> | B            | S            |          |                                                           |                                  |                   |                   |
| 12<br>½                | ASPP201<br>ASPP201-008                                              | 22.2<br>⅞          | 86<br>3⅜  | 68<br>2⅞  | 25<br>⅜  | 9.5<br>⅜  | 3.2<br>0.126   | 43.8<br>1⅝     | 22<br>0.8661 | 6<br>0.236   | M 8<br>⅝ | AS201<br>AS201-008                                        | PP203<br>PP203                   | 0.2<br>0.4        |                   |
| 15<br>⅑<br>⅝           | ASPP202<br>ASPP202-009<br>ASPP202-010                               | 22.2<br>⅞          | 86<br>3⅜  | 68<br>2⅞  | 25<br>⅜  | 9.5<br>⅜  | 3.2<br>0.126   | 43.8<br>1⅝     | 22<br>0.8661 | 6<br>0.236   | M 8<br>⅝ | AS202<br>AS202-009<br>AS202-010                           | PP203<br>PP203<br>PP203          | 0.2<br>0.4        |                   |
| 17<br>⅞                | ASPP203<br>ASPP203-011                                              | 22.2<br>⅞          | 86<br>3⅜  | 68<br>2⅞  | 25<br>⅜  | 9.5<br>⅜  | 3.2<br>0.126   | 43.8<br>1⅝     | 22<br>0.8661 | 6<br>0.236   | M 8<br>⅝ | AS203<br>AS203-011                                        | PP203<br>PP203                   | 0.1<br>0.2        |                   |
| 20<br>¾                | ASPP204<br>ASPP204-012                                              | 25.4<br>1          | 98<br>3⅞  | 76<br>3   | 32<br>1¼ | 9.5<br>⅜  | 3.2<br>0.126   | 50.5<br>2      | 25<br>0.9843 | 7<br>0.276   | M 8<br>⅝ | AS204<br>AS204-012                                        | PP204<br>PP204                   | 0.2<br>0.4        |                   |
| 25<br>⅒<br>⅞<br>⅝<br>1 | ASPP205<br>ASPP205-013<br>ASPP205-014<br>ASPP205-015<br>ASPP205-100 | 28.6<br>1⅞         | 108<br>4¼ | 86<br>3⅜  | 32<br>1¼ | 11.5<br>⅞ | 4<br>0.157     | 56.6<br>2⅞     | 27<br>1.0630 | 7.5<br>0.295 | M10<br>⅜ | AS205<br>AS205-013<br>AS205-014<br>AS205-015<br>AS205-100 | PP205<br>PP205<br>PP205<br>PP205 | 0.3<br>0.7        |                   |
| 30<br>⅒<br>⅝<br>⅜<br>¼ | ASPP206<br>ASPP206-101<br>ASPP206-102<br>ASPP206-103<br>ASPP206-104 | 33.3<br>1⅝         | 117<br>4⅞ | 95<br>3¾  | 38<br>1½ | 11.5<br>⅞ | 4<br>0.157     | 66.3<br>2⅝     | 29<br>1.1417 | 8<br>0.315   | M10<br>⅜ | AS206<br>AS206-101<br>AS206-102<br>AS206-103<br>AS206-104 | PP206<br>PP206<br>PP206<br>PP206 | 0.4<br>0.9        |                   |
| 35<br>⅒<br>⅝<br>⅜<br>⅞ | ASPP207<br>ASPP207-104<br>ASPP207-105<br>ASPP207-106<br>ASPP207-107 | 39.7<br>1⅞         | 129<br>5⅜ | 106<br>4⅜ | 42<br>1⅝ | 11.5<br>⅞ | 4.6<br>0.181   | 78<br>3⅒       | 34<br>1.3386 | 8.5<br>0.335 | M10<br>⅜ | AS207<br>AS207-104<br>AS207-105<br>AS207-106<br>AS207-107 | PP207<br>PP207<br>PP207<br>PP207 | 0.6<br>1.3        |                   |

Remarks: 1) The permissible load only applies in applications where the load is stable and the speed is 2400 min<sup>-1</sup> or less.  
The mounting surface should be flat.

| Max. load <sup>1)</sup><br>recommended |       |
|----------------------------------------|-------|
| N                                      | lbf   |
| radial                                 | axial |
| 2 000                                  | 800   |
| 440                                    | 160   |
| 2 000                                  | 800   |
| 440                                    | 160   |
| 2 000                                  | 800   |
| 440                                    | 160   |
| 2 500                                  | 1 000 |
| 550                                    | 200   |
| 3 500                                  | 1 400 |
| 770                                    | 280   |
| 4 000                                  | 1 600 |
| 880                                    | 320   |
| 4 500                                  | 1 800 |
| 990                                    | 360   |

**Pillow blocks pressed steel housing with rubber ring**  
**Set screw type**



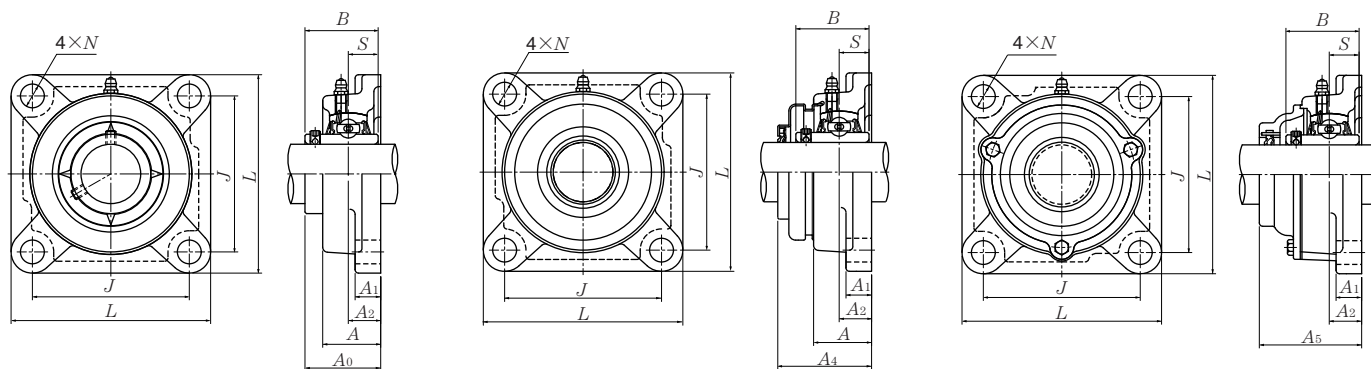
| Shaft<br>dia.                            | Unit number                                                              | Nominal dimensions                     |                                        |                                       |                                       |               |                       |                                        |              |              | Bolt<br>size | Bearing number                                            |
|------------------------------------------|--------------------------------------------------------------------------|----------------------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------|-----------------------|----------------------------------------|--------------|--------------|--------------|-----------------------------------------------------------|
|                                          |                                                                          | mm                                     |                                        |                                       |                                       |               | inch                  |                                        |              |              |              |                                                           |
|                                          |                                                                          | <i>H</i>                               | <i>L</i>                               | <i>J</i>                              | <i>A</i>                              | <i>N</i>      | <i>H</i> <sub>1</sub> | <i>H</i> <sub>2</sub>                  | <i>B</i>     | <i>S</i>     |              |                                                           |
| mm<br>inch                               |                                                                          |                                        |                                        |                                       |                                       |               |                       |                                        |              |              | mm<br>inch   |                                                           |
| 12<br>½                                  | ASRPP201<br>ASRPP201-008                                                 | 25.4<br>1                              | 98<br>3 <sup>27</sup> / <sub>32</sub>  | 76<br>3                               | 32<br>1¼                              | 9.5<br>⅜      | 3.2<br>0.126          | 50.5<br>2                              | 22<br>0.8661 | 6<br>0.236   | M 8<br>⅝     | AS201<br>AS201-008                                        |
| 15<br>9/16<br>5/8                        | ASRPP202<br>ASRPP202-009<br>ASRPP202-010                                 | 25.4<br>1                              | 98<br>3 <sup>27</sup> / <sub>32</sub>  | 76<br>3                               | 32<br>1¼                              | 9.5<br>⅜      | 3.2<br>0.126          | 50.5<br>2                              | 22<br>0.8661 | 6<br>0.236   | M 8<br>⅝     | AS202<br>AS202-009<br>AS202-010                           |
| 17<br>11/16                              | ASRPP203<br>ASRPP203-011                                                 | 25.4<br>1                              | 98<br>3 <sup>27</sup> / <sub>32</sub>  | 76<br>3                               | 32<br>1¼                              | 9.5<br>⅜      | 3.2<br>0.126          | 50.5<br>2                              | 22<br>0.8661 | 6<br>0.236   | M 8<br>⅝     | AS203<br>AS203-011                                        |
| 20<br>¾                                  | ASRPP204<br>ASRPP204-012                                                 | 28.6<br>1⅛                             | 108<br>4¼                              | 86<br>3⅜                              | 32<br>1¼                              | 11.5<br>29/64 | 4<br>0.157            | 56.6<br>2 <sup>7</sup> / <sub>32</sub> | 25<br>0.9843 | 7<br>0.276   | M10<br>⅜     | AS204<br>AS204-012                                        |
| 25<br>13/16<br>7/8<br>15/16<br>1         | ASRPP205<br>ASRPP205-013<br>ASRPP205-014<br>ASRPP205-015<br>ASRPP205-100 | 33.3<br>1 <sup>5</sup> / <sub>16</sub> | 117<br>4 <sup>19</sup> / <sub>32</sub> | 95<br>3¾                              | 38<br>1½                              | 11.5<br>29/64 | 4<br>0.157            | 66.3<br>2 <sup>5</sup> / <sub>8</sub>  | 27<br>1.0630 | 7.5<br>0.295 | M10<br>⅜     | AS205<br>AS205-013<br>AS205-014<br>AS205-015<br>AS205-100 |
| 30<br>1 1/16<br>1 1/8<br>1 3/16<br>1 1/4 | ASRPP206<br>ASRPP206-101<br>ASRPP206-102<br>ASRPP206-103<br>ASRPP206-104 | 39.7<br>1 <sup>9</sup> / <sub>16</sub> | 129<br>5 <sup>3</sup> / <sub>32</sub>  | 106<br>4 <sup>3</sup> / <sub>16</sub> | 42<br>1 <sup>21</sup> / <sub>32</sub> | 11.5<br>29/64 | 4.6<br>0.181          | 78<br>3 <sup>1</sup> / <sub>16</sub>   | 29<br>1.1417 | 8<br>0.315   | M10<br>⅜     | AS206<br>AS206-101<br>AS206-102<br>AS206-103<br>AS206-104 |

Remarks: 1) The permissible load only applies in applications where the load is stable and the speed is 2400 min<sup>-1</sup> or less.  
The mounting surface should be flat.

2) When an anti-vibration rubber ring is used, the self alignment capability will be reduce.

| Housing number |       | Mass<br>(approx.)<br>kg lb | Max. load <sup>1)</sup><br>recommended |     |
|----------------|-------|----------------------------|----------------------------------------|-----|
| rubber ring    | steel |                            | N lbf                                  |     |
| R201           | PP204 | 0.2                        | 1 000                                  | 200 |
| R201           | PP204 | 0.4                        | 220                                    | 40  |
| R201           | PP204 | 0.2                        | 1 000                                  | 200 |
| R201           | PP204 | 0.4                        | 220                                    | 40  |
| R201           | PP204 | 0.2                        | 1 000                                  | 200 |
| R201           | PP204 | 0.4                        | 220                                    | 40  |
| R204           | PP205 | 0.3                        | 1 150                                  | 200 |
| R204           | PP205 | 0.7                        | 250                                    | 40  |
| R205           | PP206 | 0.4                        | 1 300                                  | 200 |
| R205           | PP206 |                            |                                        |     |
| R205           | PP206 | 0.9                        | 280                                    | 40  |
| R205           | PP206 |                            |                                        |     |
| R205           | PP206 |                            |                                        |     |
| R206           | PP207 | 0.5                        | 1 500                                  | 200 |
| R206           | PP207 |                            |                                        |     |
| R206           | PP207 | 1.1                        | 330                                    | 40  |
| R206           | PP207 |                            |                                        |     |
| R206           | PP207 |                            |                                        |     |

# Square flanged units cast housing Set screw type



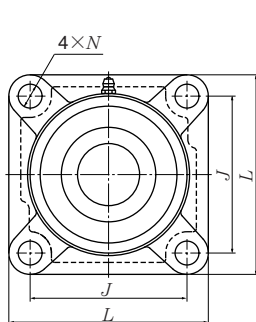
Press steel dust cover type (Open end)  
S-UCF...D1

Cast dust cover type (Open end)  
C-UCF...D1

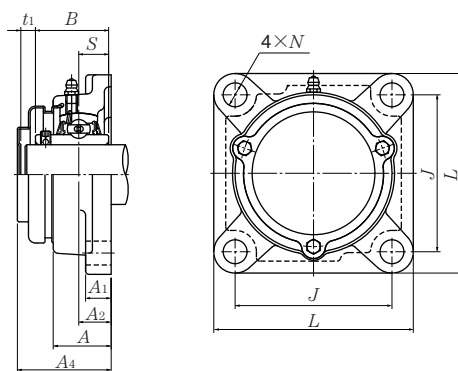
| Shaft<br>dia.                                                                                                  | Unit number <sup>1)</sup>                                                | Nominal dimensions                     |                                        |                                        |                                        |                                       |                                        |                                         |                |               | Bolt<br>size                          | Bearing number                                                      |
|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|---------------------------------------|----------------------------------------|-----------------------------------------|----------------|---------------|---------------------------------------|---------------------------------------------------------------------|
| mm<br>inch                                                                                                     |                                                                          | <i>L</i>                               | <i>J</i>                               | <i>A</i> <sub>2</sub>                  | <i>A</i> <sub>1</sub>                  | <i>A</i>                              | <i>N</i>                               | <i>A</i> <sub>0</sub>                   | <i>B</i>       | <i>S</i>      | mm<br>inch                            |                                                                     |
| 12<br>1½                                                                                                       | UCF201D1<br>UCF201-008D1                                                 | 86<br>3⅜                               | 64<br>2⅜ <sup>33</sup> / <sub>64</sub> | 15<br>19 <sup>19</sup> / <sub>32</sub> | 11<br>7 <sup>7</sup> / <sub>16</sub>   | 25.5<br>1                             | 12<br>15 <sup>15</sup> / <sub>32</sub> | 33.3<br>1 <sup>5</sup> / <sub>16</sub>  | 31<br>1.2205   | 12.7<br>0.500 | M10<br>⅜                              | UC201D1<br>UC201-008D1                                              |
| 15<br>9 <sup>9</sup> / <sub>16</sub><br>5 <sup>5</sup> / <sub>8</sub>                                          | UCF202D1<br>UCF202-009D1<br>UCF202-010D1                                 | 86<br>3⅜                               | 64<br>2⅜ <sup>33</sup> / <sub>64</sub> | 15<br>19 <sup>19</sup> / <sub>32</sub> | 11<br>7 <sup>7</sup> / <sub>16</sub>   | 25.5<br>1                             | 12<br>15 <sup>15</sup> / <sub>32</sub> | 33.3<br>1 <sup>5</sup> / <sub>16</sub>  | 31<br>1.2205   | 12.7<br>0.500 | M10<br>⅜                              | UC202D1<br>UC202-009D1<br>UC202-010D1                               |
| 17<br>1 <sup>11</sup> / <sub>16</sub>                                                                          | UCF203D1<br>UCF203-011D1                                                 | 86<br>3⅜                               | 64<br>2⅜ <sup>33</sup> / <sub>64</sub> | 15<br>19 <sup>19</sup> / <sub>32</sub> | 11<br>7 <sup>7</sup> / <sub>16</sub>   | 25.5<br>1                             | 12<br>15 <sup>15</sup> / <sub>32</sub> | 33.3<br>1 <sup>5</sup> / <sub>16</sub>  | 31<br>1.2205   | 12.7<br>0.500 | M10<br>⅜                              | UC203D1<br>UC203-011D1                                              |
| 20<br>¾                                                                                                        | UCF204D1<br>UCF204-012D1                                                 | 86<br>3⅜                               | 64<br>2⅜ <sup>33</sup> / <sub>64</sub> | 15<br>19 <sup>19</sup> / <sub>32</sub> | 11<br>7 <sup>7</sup> / <sub>16</sub>   | 25.5<br>1                             | 12<br>15 <sup>15</sup> / <sub>32</sub> | 33.3<br>1 <sup>5</sup> / <sub>16</sub>  | 31<br>1.2205   | 12.7<br>0.500 | M10<br>⅜                              | UC204D1<br>UC204-012D1                                              |
| 25<br>1 <sup>13</sup> / <sub>16</sub><br>7 <sup>7</sup> / <sub>8</sub><br>1 <sup>15</sup> / <sub>16</sub><br>1 | UCF205D1<br>UCF205-013D1<br>UCF205-014D1<br>UCF205-015D1<br>UCF205-100D1 | 95<br>3¾                               | 70<br>2¾                               | 16<br>5 <sup>5</sup> / <sub>8</sub>    | 13<br>½                                | 27<br>1 <sup>1</sup> / <sub>16</sub>  | 12<br>15 <sup>15</sup> / <sub>32</sub> | 35.8<br>1 <sup>13</sup> / <sub>32</sub> | 34.1<br>1.3425 | 14.3<br>0.563 | M10<br>⅜                              | UC205D1<br>UC205-013D1<br>UC205-014D1<br>UC205-015D1<br>UC205-100D1 |
| 30<br>1 <sup>1</sup> / <sub>16</sub><br>1 <sup>1</sup> / <sub>8</sub><br>1 <sup>3</sup> / <sub>16</sub><br>1¼  | UCF206D1<br>UCF206-101D1<br>UCF206-102D1<br>UCF206-103D1<br>UCF206-104D1 | 108<br>4¼                              | 83<br>3 <sup>17</sup> / <sub>64</sub>  | 18<br>4 <sup>45</sup> / <sub>64</sub>  | 13<br>½                                | 31<br>1 <sup>7</sup> / <sub>32</sub>  | 12<br>15 <sup>15</sup> / <sub>32</sub> | 40.2<br>1 <sup>37</sup> / <sub>64</sub> | 38.1<br>1.5000 | 15.9<br>0.626 | M10<br>⅜                              | UC206D1<br>UC206-101D1<br>UC206-102D1<br>UC206-103D1<br>UC206-104D1 |
| 35<br>1¼<br>1 <sup>5</sup> / <sub>16</sub><br>1 <sup>3</sup> / <sub>8</sub><br>1 <sup>7</sup> / <sub>16</sub>  | UCF207D1<br>UCF207-104D1<br>UCF207-105D1<br>UCF207-106D1<br>UCF207-107D1 | 117<br>4 <sup>19</sup> / <sub>32</sub> | 92<br>3 <sup>5</sup> / <sub>8</sub>    | 19<br>¾                                | 15<br>19 <sup>19</sup> / <sub>32</sub> | 34<br>1 <sup>11</sup> / <sub>32</sub> | 14<br>3 <sup>35</sup> / <sub>64</sub>  | 44.4<br>1¾                              | 42.9<br>1.6890 | 17.5<br>0.689 | M12<br>7 <sup>7</sup> / <sub>16</sub> | UC207D1<br>UC207-104D1<br>UC207-105D1<br>UC207-106D1<br>UC207-107D1 |
| 40<br>1½<br>1 <sup>9</sup> / <sub>16</sub>                                                                     | UCF208D1<br>UCF208-108D1<br>UCF208-109D1                                 | 130<br>5 <sup>5</sup> / <sub>8</sub>   | 102<br>4 <sup>1</sup> / <sub>64</sub>  | 21<br>5 <sup>53</sup> / <sub>64</sub>  | 15<br>19 <sup>19</sup> / <sub>32</sub> | 36<br>1 <sup>13</sup> / <sub>32</sub> | 16<br>5 <sup>5</sup> / <sub>8</sub>    | 51.2<br>2 <sup>1</sup> / <sub>64</sub>  | 49.2<br>1.9370 | 19<br>0.748   | M14<br>½                              | UC208D1<br>UC208-108D1<br>UC208-109D1                               |
| 45<br>1 <sup>5</sup> / <sub>8</sub><br>1 <sup>11</sup> / <sub>16</sub><br>1¾                                   | UCF209D1<br>UCF209-110D1<br>UCF209-111D1<br>UCF209-112D1                 | 137<br>5 <sup>13</sup> / <sub>32</sub> | 105<br>4 <sup>9</sup> / <sub>64</sub>  | 22<br>5 <sup>55</sup> / <sub>64</sub>  | 16<br>5 <sup>5</sup> / <sub>8</sub>    | 38<br>1½                              | 16<br>5 <sup>5</sup> / <sub>8</sub>    | 52.2<br>2 <sup>1</sup> / <sub>16</sub>  | 49.2<br>1.9370 | 19<br>0.748   | M14<br>½                              | UC209D1<br>UC209-110D1<br>UC209-111D1<br>UC209-112D1                |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.



Press steel dust cover type (Close end)  
SM-UCF...D1

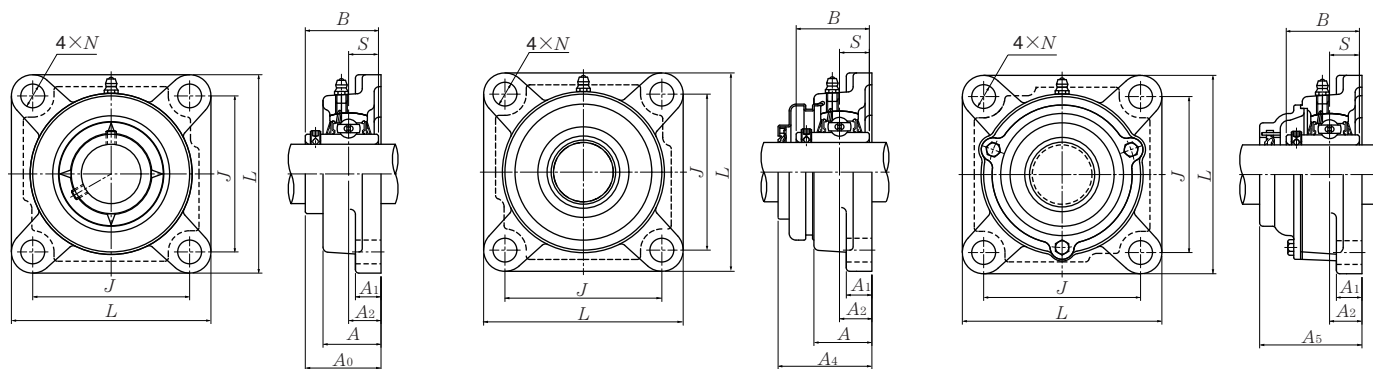


Cast dust cover type (Close end)  
CM-UCF...D1

| Housing<br>number | Unit number <sup>1)</sup><br>pressed steel dust<br>cover type | Unit number <sup>1)</sup><br>cast dust cover type | Nominal dimensions |                 |                  |                  | Mass<br>(approx.) |       |       |
|-------------------|---------------------------------------------------------------|---------------------------------------------------|--------------------|-----------------|------------------|------------------|-------------------|-------|-------|
|                   |                                                               |                                                   | mm                 |                 | inch             |                  | kg                |       | lb    |
|                   |                                                               |                                                   | t <sub>1</sub>     | t <sub>2</sub>  | A <sub>4</sub>   | A <sub>5</sub>   | UCF               | S(SM) | C(CM) |
| F204D1            | <b>S(SM)-UCF201D1</b>                                         | <b>C(CM)-UCF201D1</b>                             | 5                  | 8               | 40.5             | 46               | 0.6               | 0.6   | 0.8   |
| F204D1            | <b>S(SM)-UCF201-008D1</b>                                     | <b>C(CM)-UCF201-008D1</b>                         | $\frac{13}{64}$    | $\frac{5}{16}$  | $1\frac{19}{32}$ | $1\frac{13}{16}$ | 1.3               | 1.3   | 1.8   |
| F204D1            | <b>S(SM)-UCF202D1</b>                                         | <b>C(CM)-UCF202D1</b>                             | 5                  | 8               | 40.5             | 46               | 0.6               | 0.6   | 0.8   |
| F204D1            | <b>S(SM)-UCF202-009D1</b>                                     | <b>C(CM)-UCF202-009D1</b>                         | $\frac{13}{64}$    | $\frac{5}{16}$  | $1\frac{19}{32}$ | $1\frac{13}{16}$ | 1.3               | 1.3   | 1.8   |
| F204D1            | <b>S(SM)-UCF202-010D1</b>                                     | <b>C(CM)-UCF202-010D1</b>                         |                    |                 |                  |                  |                   |       |       |
| F204D1            | <b>S(SM)-UCF203D1</b>                                         | <b>C(CM)-UCF203D1</b>                             | 5                  | 8               | 40.5             | 46               | 0.6               | 0.6   | 0.8   |
| F204D1            | <b>S(SM)-UCF203-011D1</b>                                     | <b>C(CM)-UCF203-011D1</b>                         | $\frac{13}{64}$    | $\frac{5}{16}$  | $1\frac{19}{32}$ | $1\frac{13}{16}$ | 1.3               | 1.3   | 1.8   |
| F204D1            | <b>S(SM)-UCF204D1</b>                                         | <b>C(CM)-UCF204D1</b>                             | 5                  | 8               | 40.5             | 46               | 0.6               | 0.6   | 0.7   |
| F204D1            | <b>S(SM)-UCF204-012D1</b>                                     | <b>C(CM)-UCF204-012D1</b>                         | $\frac{13}{64}$    | $\frac{5}{16}$  | $1\frac{19}{32}$ | $1\frac{13}{16}$ | 1.3               | 1.3   | 1.8   |
| F205D1            | <b>S(SM)-UCF205D1</b>                                         | <b>C(CM)-UCF205D1</b>                             | 7                  | 11              | 44.5             | 51               | 0.8               | 0.8   | 0.9   |
| F205D1            | <b>S(SM)-UCF205-013D1</b>                                     | <b>C(CM)-UCF205-013D1</b>                         |                    |                 |                  |                  |                   |       |       |
| F205D1            | <b>S(SM)-UCF205-014D1</b>                                     | <b>C(CM)-UCF205-014D1</b>                         | $\frac{9}{32}$     | $\frac{7}{16}$  | $1\frac{3}{4}$   | 2                | 1.8               | 1.8   | 2.0   |
| F205D1            | <b>S(SM)-UCF205-015D1</b>                                     | <b>C(CM)-UCF205-015D1</b>                         |                    |                 |                  |                  |                   |       |       |
| F205D1            | <b>S(SM)-UCF205-100D1</b>                                     | <b>C(CM)-UCF205-100D1</b>                         |                    |                 |                  |                  |                   |       |       |
| F206D1            | <b>S(SM)-UCF206D1</b>                                         | <b>C(CM)-UCF206D1</b>                             | 7                  | 11              | 49               | 56               | 1.1               | 1.1   | 1.3   |
| F206D1            | <b>S(SM)-UCF206-101D1</b>                                     | <b>C(CM)-UCF206-101D1</b>                         |                    |                 |                  |                  |                   |       |       |
| F206D1            | <b>S(SM)-UCF206-102D1</b>                                     | <b>C(CM)-UCF206-102D1</b>                         | $\frac{9}{32}$     | $\frac{7}{16}$  | $1\frac{15}{16}$ | $2\frac{7}{32}$  | 2.4               | 2.4   | 2.9   |
| F206D1            | <b>S(SM)-UCF206-103D1</b>                                     | <b>C(CM)-UCF206-103D1</b>                         |                    |                 |                  |                  |                   |       |       |
| F206D1            | <b>S(SM)-UCF206-104D1</b>                                     | <b>C(CM)-UCF206-104D1</b>                         |                    |                 |                  |                  |                   |       |       |
| F207D1            | <b>S(SM)-UCF207D1</b>                                         | <b>C(CM)-UCF207D1</b>                             | 8                  | 10              | 55               | 59               | 1.5               | 1.5   | 1.8   |
| F207D1            | <b>S(SM)-UCF207-104D1</b>                                     | <b>C(CM)-UCF207-104D1</b>                         |                    |                 |                  |                  |                   |       |       |
| F207D1            | <b>S(SM)-UCF207-105D1</b>                                     | <b>C(CM)-UCF207-105D1</b>                         | $\frac{5}{16}$     | $\frac{25}{64}$ | $2\frac{5}{32}$  | $2\frac{5}{16}$  | 3.3               | 3.3   | 4.0   |
| F207D1            | <b>S(SM)-UCF207-106D1</b>                                     | <b>C(CM)-UCF207-106D1</b>                         |                    |                 |                  |                  |                   |       |       |
| F207D1            | <b>S(SM)-UCF207-107D1</b>                                     | <b>C(CM)-UCF207-107D1</b>                         |                    |                 |                  |                  |                   |       |       |
| F208D1            | <b>S(SM)-UCF208D1</b>                                         | <b>C(CM)-UCF208D1</b>                             | 8                  | 9               | 62               | 66               | 1.7               | 1.8   | 2.2   |
| F208D1            | <b>S(SM)-UCF208-108D1</b>                                     | <b>C(CM)-UCF208-108D1</b>                         | $\frac{5}{16}$     | $\frac{23}{64}$ | $2\frac{7}{16}$  | $2\frac{19}{32}$ | 3.8               | 4.0   | 4.9   |
| F208D1            | <b>S(SM)-UCF208-109D1</b>                                     | <b>C(CM)-UCF208-109D1</b>                         |                    |                 |                  |                  |                   |       |       |
| F209D1            | <b>S(SM)-UCF209D1</b>                                         | <b>C(CM)-UCF209D1</b>                             | 8                  | 12              | 63               | 70               | 2.1               | 2.2   | 2.6   |
| F209D1            | <b>S(SM)-UCF209-110D1</b>                                     | <b>C(CM)-UCF209-110D1</b>                         |                    |                 |                  |                  |                   |       |       |
| F209D1            | <b>S(SM)-UCF209-111D1</b>                                     | <b>C(CM)-UCF209-111D1</b>                         | $\frac{5}{16}$     | $\frac{15}{32}$ | $2\frac{15}{32}$ | $2\frac{3}{4}$   | 4.6               | 4.9   | 5.7   |
| F209D1            | <b>S(SM)-UCF209-112D1</b>                                     | <b>C(CM)-UCF209-112D1</b>                         |                    |                 |                  |                  |                   |       |       |



# Square flanged units cast housing Set screw type



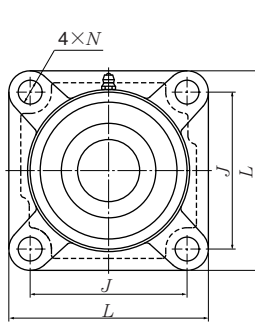
Press steel dust cover type (Open end)  
S-UCF...D1

Cast dust cover type (Open end)  
C-UCF...D1

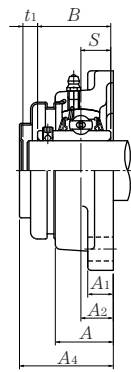
| Shaft<br>dia.                                                                                                                                   | Unit number <sup>1)</sup>                                                                                   | Nominal dimensions |          |                       |                       |          |          |                       |          |          | Bolt<br>size | Bearing number                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------|----------|-----------------------|-----------------------|----------|----------|-----------------------|----------|----------|--------------|----------------------------------------------------------------------------|
|                                                                                                                                                 |                                                                                                             | mm                 |          |                       |                       | inch     |          |                       |          |          |              |                                                                            |
| mm<br>inch                                                                                                                                      |                                                                                                             | <i>L</i>           | <i>J</i> | <i>A</i> <sub>2</sub> | <i>A</i> <sub>1</sub> | <i>A</i> | <i>N</i> | <i>A</i> <sub>0</sub> | <i>B</i> | <i>S</i> | mm<br>inch   |                                                                            |
| <b>50</b><br>1 <sup>13</sup> / <sub>16</sub><br>1 <sup>7</sup> / <sub>8</sub><br>1 <sup>15</sup> / <sub>16</sub><br><b>2</b>                    | <b>UCF210D1</b><br><b>UCF210-113D1</b><br><b>UCF210-114D1</b><br><b>UCF210-115D1</b><br><b>UCF210-200D1</b> | 143                | 111      | 22                    | 16                    | 40       | 16       | 54.6                  | 51.6     | 19       | M14          | <b>UC210D1</b><br>UC210-113D1<br>UC210-114D1<br>UC210-115D1<br>UC210-200D1 |
| <b>55</b><br><b>2</b><br>2 <sup>1</sup> / <sub>16</sub><br>2 <sup>1</sup> / <sub>8</sub><br>2 <sup>3</sup> / <sub>16</sub>                      | <b>UCF211D1</b><br><b>UCF211-200D1</b><br><b>UCF211-201D1</b><br><b>UCF211-202D1</b><br><b>UCF211-203D1</b> | 162                | 130      | 25                    | 18                    | 43       | 19       | 58.4                  | 55.6     | 22.2     | M16          | <b>UC211D1</b><br>UC211-200D1<br>UC211-201D1<br>UC211-202D1<br>UC211-203D1 |
| <b>60</b><br>2 <sup>1</sup> / <sub>4</sub><br>2 <sup>5</sup> / <sub>16</sub><br>2 <sup>3</sup> / <sub>8</sub><br>2 <sup>7</sup> / <sub>16</sub> | <b>UCF212D1</b><br><b>UCF212-204D1</b><br><b>UCF212-205D1</b><br><b>UCF212-206D1</b><br><b>UCF212-207D1</b> | 175                | 143      | 29                    | 18                    | 48       | 19       | 68.7                  | 65.1     | 25.4     | M16          | <b>UC212D1</b><br>UC212-204D1<br>UC212-205D1<br>UC212-206D1<br>UC212-207D1 |
| <b>65</b><br>2 <sup>1</sup> / <sub>2</sub><br>2 <sup>9</sup> / <sub>16</sub>                                                                    | <b>UCF213D1</b><br><b>UCF213-208D1</b><br><b>UCF213-209D1</b>                                               | 187                | 149      | 30                    | 22                    | 50       | 19       | 69.7                  | 65.1     | 25.4     | M16          | <b>UC213D1</b><br>UC213-208D1<br>UC213-209D1                               |
| <b>70</b><br>2 <sup>5</sup> / <sub>8</sub><br>2 <sup>11</sup> / <sub>16</sub><br>2 <sup>3</sup> / <sub>4</sub>                                  | <b>UCF214D1</b><br><b>UCF214-210D1</b><br><b>UCF214-211D1</b><br><b>UCF214-212D1</b>                        | 193                | 152      | 31                    | 22                    | 54       | 19       | 75.4                  | 74.6     | 30.2     | M16          | <b>UC214D1</b><br>UC214-210D1<br>UC214-211D1<br>UC214-212D1                |
| <b>75</b><br>2 <sup>13</sup> / <sub>16</sub><br>2 <sup>7</sup> / <sub>8</sub><br>2 <sup>15</sup> / <sub>16</sub><br><b>3</b>                    | <b>UCF215D1</b><br><b>UCF215-213D1</b><br><b>UCF215-214D1</b><br><b>UCF215-215D1</b><br><b>UCF215-300D1</b> | 200                | 159      | 34                    | 22                    | 56       | 19       | 78.5                  | 77.8     | 33.3     | M16          | <b>UC215D1</b><br>UC215-213D1<br>UC215-214D1<br>UC215-215D1<br>UC215-300D1 |
| <b>80</b><br>3 <sup>1</sup> / <sub>16</sub><br>3 <sup>1</sup> / <sub>8</sub><br>3 <sup>3</sup> / <sub>16</sub>                                  | <b>UCF216D1</b><br><b>UCF216-301D1</b><br><b>UCF216-302D1</b><br><b>UCF216-303D1</b>                        | 208                | 165      | 34                    | 22                    | 58       | 23       | 83.3                  | 82.6     | 33.3     | M20          | <b>UC216D1</b><br>UC216-301D1<br>UC216-302D1<br>UC216-303D1                |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.



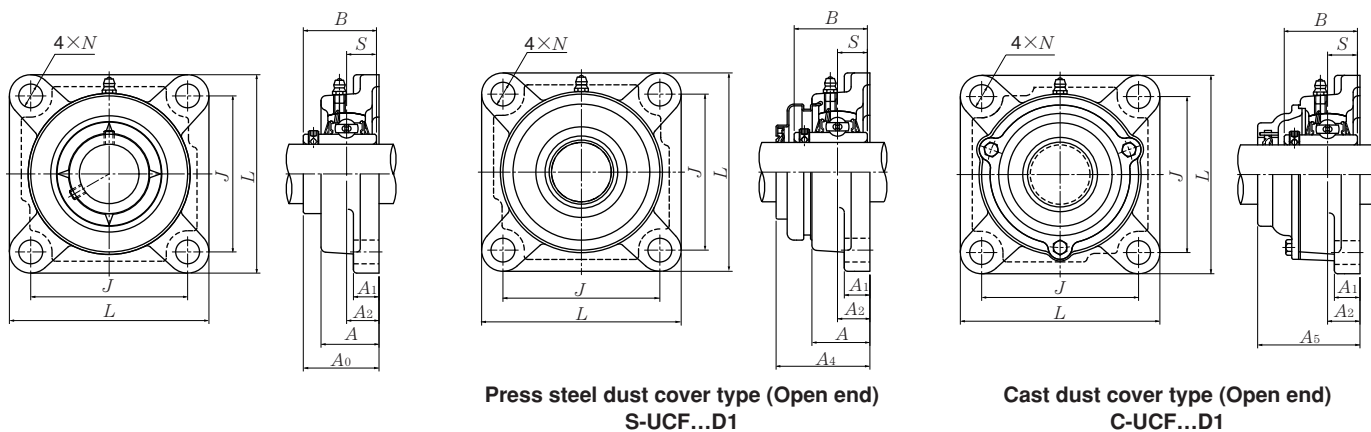
Press steel dust cover type (Close end)  
SM-UCF...D1



Cast dust cover type (Close end)  
CM-UCF...D1

| Housing<br>number | Unit number <sup>1)</sup><br>pressed steel dust<br>cover type | Unit number <sup>1)</sup><br>cast dust cover type | Nominal dimensions |                |                |                | Mass<br>(approx.) |       |       |
|-------------------|---------------------------------------------------------------|---------------------------------------------------|--------------------|----------------|----------------|----------------|-------------------|-------|-------|
|                   |                                                               |                                                   | mm                 |                | inch           |                | kg                |       | lb    |
|                   |                                                               |                                                   | t <sub>1</sub>     | t <sub>2</sub> | A <sub>4</sub> | A <sub>5</sub> | UCF               | S(SM) | C(CM) |
| F210D1            | <b>S(SM)-UCF210D1</b>                                         | <b>C(CM)-UCF210D1</b>                             | 8                  | 12             | 65.5           | 72             | 2.5               | 2.5   | 3.0   |
| F210D1            | S(SM)-UCF210-113D1                                            | C(CM)-UCF210-113D1                                |                    |                |                |                |                   |       |       |
| F210D1            | S(SM)-UCF210-114D1                                            | C(CM)-UCF210-114D1                                | 5/16               | 15/32          | 2 19/32        | 2 27/32        | 5.5               | 5.5   | 6.6   |
| F210D1            | S(SM)-UCF210-115D1                                            | C(CM)-UCF210-115D1                                |                    |                |                |                |                   |       |       |
| F210D1            | S(SM)-UCF210-200D1                                            | C(CM)-UCF210-200D1                                |                    |                |                |                |                   |       |       |
| F211D1            | <b>S(SM)-UCF211D1</b>                                         | <b>C(CM)-UCF211D1</b>                             | 10                 | 11             | 71             | 75             | 3.3               | 3.4   | 4.0   |
| F211D1            | S(SM)-UCF211-200D1                                            | C(CM)-UCF211-200D1                                |                    |                |                |                |                   |       |       |
| F211D1            | S(SM)-UCF211-201D1                                            | C(CM)-UCF211-201D1                                | 25/64              | 7/16           | 2 25/32        | 2 15/16        | 7.3               | 7.5   | 8.8   |
| F211D1            | S(SM)-UCF211-202D1                                            | C(CM)-UCF211-202D1                                |                    |                |                |                |                   |       |       |
| F211D1            | S(SM)-UCF211-203D1                                            | C(CM)-UCF211-203D1                                |                    |                |                |                |                   |       |       |
| F212D1            | <b>S(SM)-UCF212D1</b>                                         | <b>C(CM)-UCF212D1</b>                             | 8                  | 12             | 80             | 86             | 3.9               | 4.1   | 4.8   |
| F212D1            | S(SM)-UCF212-204D1                                            | C(CM)-UCF212-204D1                                |                    |                |                |                |                   |       |       |
| F212D1            | S(SM)-UCF212-205D1                                            | C(CM)-UCF212-205D1                                | 5/16               | 15/32          | 3 25/32        | 3 3/8          | 8.6               | 9.0   | 11    |
| F212D1            | S(SM)-UCF212-206D1                                            | C(CM)-UCF212-206D1                                |                    |                |                |                |                   |       |       |
| F212D1            | S(SM)-UCF212-207D1                                            | C(CM)-UCF212-207D1                                |                    |                |                |                |                   |       |       |
| F213D1            | <b>S(SM)-UCF213D1</b>                                         | <b>C(CM)-UCF213D1</b>                             | 11                 | 15             | 83.5           | 90             | 5.5               | 5.6   | 6.4   |
| F213D1            | S(SM)-UCF213-208D1                                            | C(CM)-UCF213-208D1                                | 7/16               | 19/32          | 3 9/32         | 3 17/32        | 12                | 12    | 14    |
| F213D1            | S(SM)-UCF213-209D1                                            | C(CM)-UCF213-209D1                                |                    |                |                |                |                   |       |       |
| F214D1            | —                                                             | <b>C(CM)-UCF214D1</b>                             | —                  | 16             | —              | 98             | 6.3               | —     | 7.4   |
| F214D1            | —                                                             | C(CM)-UCF214-210D1                                |                    |                |                |                |                   |       |       |
| F214D1            | —                                                             | C(CM)-UCF214-211D1                                | —                  | 5/8            | —              | 3 27/32        | 14                | —     | 16    |
| F214D1            | —                                                             | C(CM)-UCF214-212D1                                |                    |                |                |                |                   |       |       |
| F215D1            | —                                                             | <b>C(CM)-UCF215D1</b>                             | —                  | 17             | —              | 102            | 6.6               | —     | 7.9   |
| F215D1            | —                                                             | C(CM)-UCF215-213D1                                |                    |                |                |                |                   |       |       |
| F215D1            | —                                                             | C(CM)-UCF215-214D1                                | —                  | 2 1/32         | —              | 4 1/32         | 15                | —     | 17    |
| F215D1            | —                                                             | C(CM)-UCF215-215D1                                |                    |                |                |                |                   |       |       |
| F215D1            | —                                                             | C(CM)-UCF215-300D1                                |                    |                |                |                |                   |       |       |
| F216D1            | —                                                             | <b>C(CM)-UCF216D1</b>                             | —                  | 16             | —              | 106            | 7.9               | —     | 9.3   |
| F216D1            | —                                                             | C(CM)-UCF216-301D1                                |                    |                |                |                |                   |       |       |
| F216D1            | —                                                             | C(CM)-UCF216-302D1                                | —                  | 5/8            | —              | 4 3/16         | 17                | —     | 21    |
| F216D1            | —                                                             | C(CM)-UCF216-303D1                                |                    |                |                |                |                   |       |       |

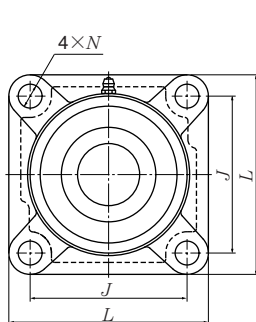
## Square flanged units cast housing Set screw type



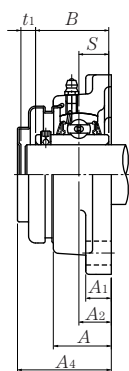
| Shaft dia.                                                                   | Unit number <sup>1)</sup>                                | Nominal dimensions              |                                 |                                 |                                |                                 |                                |                                 |          |          | Bolt size  | Bearing number                                       |
|------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|----------|----------|------------|------------------------------------------------------|
| mm<br>inch                                                                   |                                                          |                                 |                                 |                                 | mm                             | inch                            |                                |                                 |          |          | mm<br>inch |                                                      |
|                                                                              |                                                          | <i>L</i>                        | <i>J</i>                        | <i>A</i> <sub>2</sub>           | <i>A</i> <sub>1</sub>          | <i>A</i>                        | <i>N</i>                       | <i>A</i> <sub>0</sub>           | <i>B</i> | <i>S</i> |            |                                                      |
| 85<br>3¼<br>3 <sup>5</sup> / <sub>16</sub><br>3 <sup>7</sup> / <sub>16</sub> | UCF217D1<br>UCF217-304D1<br>UCF217-305D1<br>UCF217-307D1 | 220                             | 175                             | 36                              | 24                             | 63                              | 23                             | 87.6                            | 85.7     | 34.1     | M20        | UC217D1<br>UC217-304D1<br>UC217-305D1<br>UC217-307D1 |
|                                                                              |                                                          | 8 <sup>21</sup> / <sub>32</sub> | 6 <sup>57</sup> / <sub>64</sub> | 1 <sup>27</sup> / <sub>64</sub> | 1 <sup>5</sup> / <sub>16</sub> | 2 <sup>15</sup> / <sub>32</sub> | 2 <sup>9</sup> / <sub>32</sub> | 3 <sup>29</sup> / <sub>64</sub> | 3.3740   | 1.343    | ¾          |                                                      |
| 90<br>3½                                                                     | UCF218D1<br>UCF218-308D1                                 | 235                             | 187                             | 40                              | 24                             | 68                              | 23                             | 96.3                            | 96       | 39.7     | M20        | UC218D1<br>UC218-308D1                               |
|                                                                              |                                                          | 9¼                              | 7 <sup>23</sup> / <sub>64</sub> | 1 <sup>37</sup> / <sub>64</sub> | 1 <sup>5</sup> / <sub>16</sub> | 2 <sup>11</sup> / <sub>16</sub> | 2 <sup>9</sup> / <sub>32</sub> | 3 <sup>51</sup> / <sub>64</sub> | 3.7795   | 1.563    | ¾          |                                                      |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.



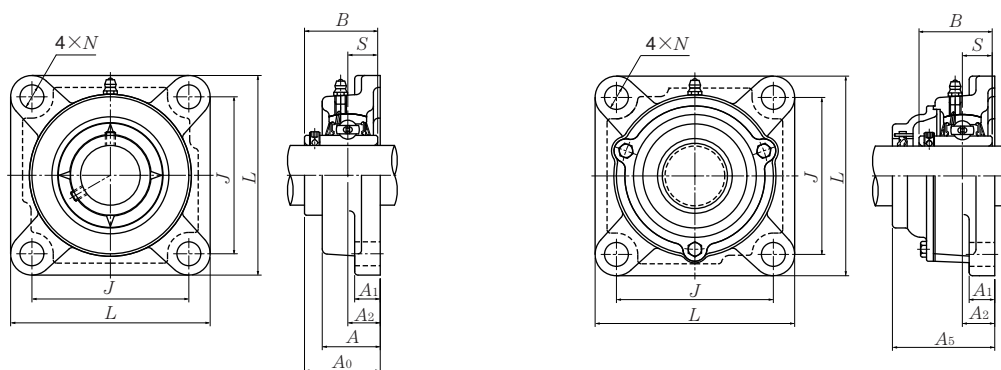
Press steel dust cover type (Close end)  
SM-UCF...D1



Cast dust cover type (Close end)  
CM-UCF...D1

| Housing<br>number <sup>1)</sup> | Unit number <sup>1)</sup><br>pressed steel dust<br>cover type | Unit number <sup>1)</sup><br>cast dust cover ty | Nominal dimensions |                                 |                |                                 | Mass<br>(approx.) |       |       |
|---------------------------------|---------------------------------------------------------------|-------------------------------------------------|--------------------|---------------------------------|----------------|---------------------------------|-------------------|-------|-------|
|                                 |                                                               |                                                 | mm                 |                                 | inch           |                                 | kg                |       | lb    |
|                                 |                                                               |                                                 | t <sub>1</sub>     | t <sub>2</sub>                  | A <sub>4</sub> | A <sub>5</sub>                  | UCF               | S(SM) | C(CM) |
| F217D1                          | —                                                             | <b>C(CM)-UCF217D1</b>                           | —                  | 20                              | —              | 114                             | 9.8               | —     | 12    |
| F217D1                          | —                                                             | <b>C(CM)-UCF217-304D1</b>                       | —                  | 25 <sup>3</sup> / <sub>32</sub> | —              | 4 <sup>1</sup> / <sub>2</sub>   | 22                | —     | 26    |
| F217D1                          | —                                                             | <b>C(CM)-UCF217-305D1</b>                       | —                  | 25 <sup>3</sup> / <sub>32</sub> | —              | 4 <sup>1</sup> / <sub>2</sub>   | 22                | —     | 26    |
| F217D1                          | —                                                             | <b>C(CM)-UCF217-307D1</b>                       | —                  | 25 <sup>3</sup> / <sub>32</sub> | —              | 4 <sup>1</sup> / <sub>2</sub>   | 22                | —     | 26    |
| F218D1                          | —                                                             | <b>C(CM)-UCF218D1</b>                           | —                  | 19                              | —              | 122                             | 12                | —     | 13    |
| F218D1                          | —                                                             | <b>C(CM)-UCF218-308D1</b>                       | —                  | 3 <sup>3</sup> / <sub>4</sub>   | —              | 4 <sup>13</sup> / <sub>16</sub> | 26                | —     | 29    |

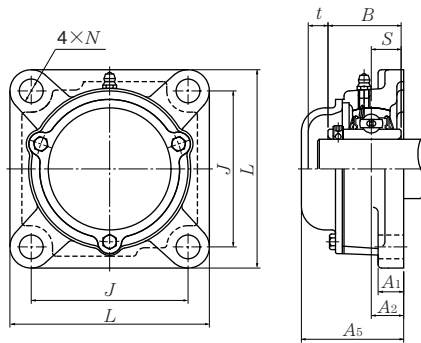
# Square flanged units cast housing Set screw type



Cast dust cover type (Open end)  
C-UCF...D1

| Shaft<br>dia.                                                                                                                                                                                                                                          | Unit number <sup>1)</sup>                                                                                           | Nominal dimensions |                |                       |                       |               |               |                       |               |               | Bolt<br>size                  | Bearing number                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|--------------------|----------------|-----------------------|-----------------------|---------------|---------------|-----------------------|---------------|---------------|-------------------------------|----------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                        |                                                                                                                     | mm                 |                |                       |                       |               | inch          |                       |               |               |                               |                                                                                                                |
|                                                                                                                                                                                                                                                        |                                                                                                                     | <i>L</i>           | <i>J</i>       | <i>A</i> <sub>2</sub> | <i>A</i> <sub>1</sub> | <i>A</i>      | <i>N</i>      | <i>A</i> <sub>0</sub> | <i>B</i>      | <i>S</i>      |                               |                                                                                                                |
| <div>mm</div> <div>inch</div>                                                                                                                                                                                                                          |                                                                                                                     |                    |                |                       |                       |               |               |                       |               |               | <div>mm</div> <div>inch</div> |                                                                                                                |
| <div>25</div> <div><div><div><div><div>13</div><div>16</div></div></div><div><div><div>7</div><div>8</div></div></div><div><div><div>15</div><div>16</div></div></div></div><div>1</div></div>                                                         | <div>UCF305D1</div> <div>UCF305-013D1</div> <div>UCF305-014D1</div> <div>UCF305-015D1</div> <div>UCF305-100D1</div> | <div>110</div>     | <div>80</div>  | <div>16</div>         | <div>13</div>         | <div>29</div> | <div>16</div> | <div>39</div>         | <div>38</div> | <div>15</div> | <div>M14</div>                | <div>UC305D1</div> <div>UC305-013D1</div> <div>UC305-014D1</div> <div>UC305-015D1</div> <div>UC305-100D1</div> |
| <div>41132</div> <div>3532</div> <div>58</div> <div>12</div> <div>1532</div> <div>58</div> <div>11732</div> <div>1.4961</div> <div>0.591</div>                                                                                                         | <div>12</div>                                                                                                       |                    |                |                       |                       |               |               |                       |               |               |                               |                                                                                                                |
| <div>30</div> <div><div><div><div>1</div><div>16</div></div></div><div><div><div>1</div><div>8</div></div></div><div><div><div>1</div><div>3</div><div>16</div></div></div></div>                                                                      | <div>UCF306D1</div> <div>UCF306-101D1</div> <div>UCF306-102D1</div> <div>UCF306-103D1</div>                         | <div>125</div>     | <div>95</div>  | <div>18</div>         | <div>15</div>         | <div>32</div> | <div>16</div> | <div>44</div>         | <div>43</div> | <div>17</div> | <div>M14</div>                | <div>UC306D1</div> <div>UC306-101D1</div> <div>UC306-102D1</div> <div>UC306-103D1</div>                        |
| <div>42932</div> <div>34764</div> <div>4564</div> <div>1932</div> <div>114</div> <div>58</div> <div>14764</div> <div>1.6929</div> <div>0.669</div>                                                                                                     | <div>12</div>                                                                                                       |                    |                |                       |                       |               |               |                       |               |               |                               |                                                                                                                |
| <div>35</div> <div><div><div><div><div>1</div><div>4</div></div></div><div><div><div>5</div><div>16</div></div></div><div><div><div>1</div><div>3</div><div>8</div></div></div><div><div><div>1</div><div>7</div><div>16</div></div></div></div></div> | <div>UCF307D1</div> <div>UCF307-104D1</div> <div>UCF307-105D1</div> <div>UCF307-106D1</div> <div>UCF307-107D1</div> | <div>135</div>     | <div>100</div> | <div>20</div>         | <div>16</div>         | <div>36</div> | <div>19</div> | <div>49</div>         | <div>48</div> | <div>19</div> | <div>M16</div>                | <div>UC307D1</div> <div>UC307-104D1</div> <div>UC307-105D1</div> <div>UC307-106D1</div> <div>UC307-107D1</div> |
| <div>5516</div> <div>31516</div> <div>2532</div> <div>58</div> <div>11332</div> <div>34</div> <div>15964</div> <div>1.8898</div> <div>0.748</div>                                                                                                      | <div>58</div>                                                                                                       |                    |                |                       |                       |               |               |                       |               |               |                               |                                                                                                                |
| <div>40</div> <div><div><div><div><div>1</div><div>2</div></div></div><div><div><div>9</div><div>16</div></div></div></div></div>                                                                                                                      | <div>UCF308D1</div> <div>UCF308-108D1</div> <div>UCF308-109D1</div>                                                 | <div>150</div>     | <div>112</div> | <div>23</div>         | <div>17</div>         | <div>40</div> | <div>19</div> | <div>56</div>         | <div>52</div> | <div>19</div> | <div>M16</div>                | <div>UC308D1</div> <div>UC308-108D1</div> <div>UC308-109D1</div>                                               |
| <div>52932</div> <div>41332</div> <div>2932</div> <div>2132</div> <div>1916</div> <div>34</div> <div>21364</div> <div>2.0472</div> <div>0.748</div>                                                                                                    | <div>58</div>                                                                                                       |                    |                |                       |                       |               |               |                       |               |               |                               |                                                                                                                |
| <div>45</div> <div><div><div><div><div>1</div><div>5</div><div>8</div></div></div><div><div><div>1</div><div>11</div><div>16</div></div></div><div><div><div>1</div><div>3</div><div>4</div></div></div></div></div>                                   | <div>UCF309D1</div> <div>UCF309-110D1</div> <div>UCF309-111D1</div> <div>UCF309-112D1</div>                         | <div>160</div>     | <div>125</div> | <div>25</div>         | <div>18</div>         | <div>44</div> | <div>19</div> | <div>60</div>         | <div>57</div> | <div>22</div> | <div>M16</div>                | <div>UC309D1</div> <div>UC309-110D1</div> <div>UC309-111D1</div> <div>UC309-112D1</div>                        |
| <div>6516</div> <div>45964</div> <div>6364</div> <div>2332</div> <div>12332</div> <div>34</div> <div>22364</div> <div>2.2441</div> <div>0.866</div>                                                                                                    | <div>58</div>                                                                                                       |                    |                |                       |                       |               |               |                       |               |               |                               |                                                                                                                |
| <div>50</div> <div><div><div><div><div>1</div><div>13</div><div>16</div></div></div><div><div><div>1</div><div>7</div><div>8</div></div></div><div><div><div>1</div><div>15</div><div>16</div></div></div></div></div>                                 | <div>UCF310D1</div> <div>UCF310-113D1</div> <div>UCF310-114D1</div> <div>UCF310-115D1</div>                         | <div>175</div>     | <div>132</div> | <div>28</div>         | <div>19</div>         | <div>48</div> | <div>23</div> | <div>67</div>         | <div>61</div> | <div>22</div> | <div>M20</div>                | <div>UC310D1</div> <div>UC310-113D1</div> <div>UC310-114D1</div> <div>UC310-115D1</div>                        |
| <div>678</div> <div>51364</div> <div>1764</div> <div>34</div> <div>178</div> <div>2932</div> <div>24164</div> <div>2.4016</div> <div>0.866</div>                                                                                                       | <div>34</div>                                                                                                       |                    |                |                       |                       |               |               |                       |               |               |                               |                                                                                                                |
| <div>55</div> <div><div><div><div><div>2</div></div></div><div><div><div><div><div>2</div><div>16</div></div></div><div><div><div>2</div><div>8</div></div></div><div><div><div>2</div><div>3</div><div>16</div></div></div></div></div></div></div>   | <div>UCF311D1</div> <div>UCF311-200D1</div> <div>UCF311-201D1</div> <div>UCF311-202D1</div> <div>UCF311-203D1</div> | <div>185</div>     | <div>140</div> | <div>30</div>         | <div>20</div>         | <div>52</div> | <div>23</div> | <div>71</div>         | <div>66</div> | <div>25</div> | <div>M20</div>                | <div>UC311D1</div> <div>UC311-200D1</div> <div>UC311-201D1</div> <div>UC311-202D1</div> <div>UC311-203D1</div> |
| <div>7932</div> <div>53364</div> <div>1316</div> <div>2532</div> <div>2116</div> <div>2932</div> <div>25164</div> <div>2.5984</div> <div>0.984</div>                                                                                                   | <div>34</div>                                                                                                       |                    |                |                       |                       |               |               |                       |               |               |                               |                                                                                                                |

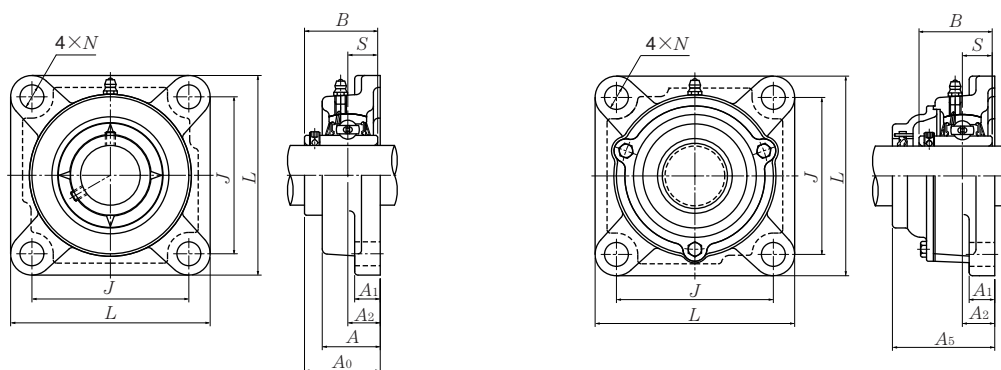
Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".  
Note: Please refer to page 36 for size of grease fitting.



Cast dust cover type (Close end)  
CM-UCF...D1

| Housing<br>number | Unit number <sup>1)</sup><br>cast dust cover type | Nominal<br>dimensions            |                                 | Mass<br>(approx.) |       |
|-------------------|---------------------------------------------------|----------------------------------|---------------------------------|-------------------|-------|
|                   |                                                   | mm                               | inch                            | kg                | lb    |
|                   |                                                   | t                                | A <sub>5</sub>                  | UCF               | C(CM) |
| F305D1            | <b>C(CM)-UCF305D1</b>                             | 12                               | 56                              | 1.1               | 1.4   |
| F305D1            | <b>C(CM)-UCF305-013D1</b>                         |                                  |                                 |                   |       |
| F305D1            | <b>C(CM)-UCF305-014D1</b>                         | 15 <sup>15</sup> / <sub>32</sub> | 2 <sup>7</sup> / <sub>32</sub>  | 2.4               | 3.1   |
| F305D1            | <b>C(CM)-UCF305-015D1</b>                         |                                  |                                 |                   |       |
| F305D1            | <b>C(CM)-UCF305-100D1</b>                         |                                  |                                 |                   |       |
| F306D1            | <b>C(CM)-UCF306D1</b>                             | 11                               | 60                              | 1.6               | 2.1   |
| F306D1            | <b>C(CM)-UCF306-101D1</b>                         |                                  |                                 |                   |       |
| F306D1            | <b>C(CM)-UCF306-102D1</b>                         | 7 <sup>7</sup> / <sub>16</sub>   | 2 <sup>3</sup> / <sub>8</sub>   | 3.5               | 4.6   |
| F306D1            | <b>C(CM)-UCF306-103D1</b>                         |                                  |                                 |                   |       |
| F307D1            | <b>C(CM)-UCF307D1</b>                             | 14                               | 68                              | 2.1               | 2.6   |
| F307D1            | <b>C(CM)-UCF307-104D1</b>                         |                                  |                                 |                   |       |
| F307D1            | <b>C(CM)-UCF307-105D1</b>                         | 35 <sup>35</sup> / <sub>64</sub> | 2 <sup>11</sup> / <sub>16</sub> | 4.6               | 5.7   |
| F307D1            | <b>C(CM)-UCF307-106D1</b>                         |                                  |                                 |                   |       |
| F307D1            | <b>C(CM)-UCF307-107D1</b>                         |                                  |                                 |                   |       |
| F308D1            | <b>C(CM)-UCF308D1</b>                             | 14                               | 76                              | 2.7               | 3.4   |
| F308D1            | <b>C(CM)-UCF308-108D1</b>                         | 35 <sup>35</sup> / <sub>64</sub> | 3                               | 6.0               | 7.5   |
| F308D1            | <b>C(CM)-UCF308-109D1</b>                         |                                  |                                 |                   |       |
| F309D1            | <b>C(CM)-UCF309D1</b>                             | 14                               | 80                              | 3.4               | 4.3   |
| F309D1            | <b>C(CM)-UCF309-110D1</b>                         |                                  |                                 |                   |       |
| F309D1            | <b>C(CM)-UCF309-111D1</b>                         | 35 <sup>35</sup> / <sub>64</sub> | 3 <sup>5</sup> / <sub>32</sub>  | 7.5               | 9.5   |
| F309D1            | <b>C(CM)-UCF309-112D1</b>                         |                                  |                                 |                   |       |
| F310D1            | <b>C(CM)-UCF310D1</b>                             | 15                               | 88                              | 4.5               | 5.8   |
| F310D1            | <b>C(CM)-UCF310-113D1</b>                         |                                  |                                 |                   |       |
| F310D1            | <b>C(CM)-UCF310-114D1</b>                         | 19 <sup>19</sup> / <sub>32</sub> | 3 <sup>15</sup> / <sub>32</sub> | 9.9               | 13    |
| F310D1            | <b>C(CM)-UCF310-115D1</b>                         |                                  |                                 |                   |       |
| F311D1            | <b>C(CM)-UCF311D1</b>                             | 15                               | 92                              | 5.3               | 6.7   |
| F311D1            | <b>C(CM)-UCF311-200D1</b>                         |                                  |                                 |                   |       |
| F311D1            | <b>C(CM)-UCF311-201D1</b>                         | 19 <sup>19</sup> / <sub>32</sub> | 3 <sup>5</sup> / <sub>8</sub>   | 12                | 15    |
| F311D1            | <b>C(CM)-UCF311-202D1</b>                         |                                  |                                 |                   |       |
| F311D1            | <b>C(CM)-UCF311-203D1</b>                         |                                  |                                 |                   |       |

# Square flanged units cast housing Set screw type

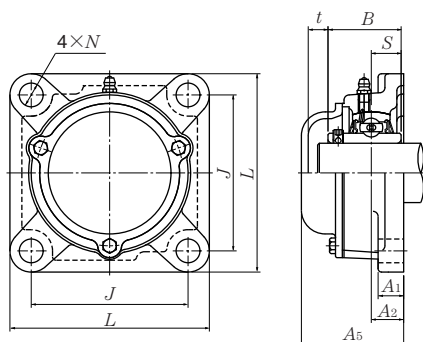


Cast dust cover type (Open end)  
C-UCF...D1

| Shaft<br>dia.                                                                                                                                                   | Unit number <sup>1)</sup>                                                                                   | Nominal dimensions              |                                 |                                 |                                |                                 |                                |                                 |          |          | Bolt<br>size                  | Bearing number                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|----------|----------|-------------------------------|----------------------------------------------------------------------------|
|                                                                                                                                                                 |                                                                                                             | mm                              |                                 |                                 | inch                           |                                 |                                |                                 |          |          |                               |                                                                            |
| mm<br>inch                                                                                                                                                      |                                                                                                             | <i>L</i>                        | <i>J</i>                        | <i>A</i> <sub>2</sub>           | <i>A</i> <sub>1</sub>          | <i>A</i>                        | <i>N</i>                       | <i>A</i> <sub>0</sub>           | <i>B</i> | <i>S</i> | mm<br>inch                    |                                                                            |
| <b>60</b><br><b>2<sup>1</sup>/<sub>4</sub></b><br><b>2<sup>5</sup>/<sub>16</sub></b><br><b>2<sup>3</sup>/<sub>8</sub></b><br><b>2<sup>7</sup>/<sub>16</sub></b> | <b>UCF312D1</b><br><b>UCF312-204D1</b><br><b>UCF312-205D1</b><br><b>UCF312-206D1</b><br><b>UCF312-207D1</b> | 195                             | 150                             | 33                              | 22                             | 56                              | 23                             | 78                              | 71       | 26       | M20                           | <b>UC312D1</b><br>UC312-204D1<br>UC312-205D1<br>UC312-206D1<br>UC312-207D1 |
|                                                                                                                                                                 |                                                                                                             | 7 <sup>11</sup> / <sub>16</sub> | 5 <sup>29</sup> / <sub>32</sub> | 1 <sup>19</sup> / <sub>64</sub> | <sup>7</sup> / <sub>8</sub>    | 2 <sup>7</sup> / <sub>32</sub>  | <sup>29</sup> / <sub>32</sub>  | 3 <sup>5</sup> / <sub>64</sub>  | 2.7953   | 1.024    | <sup>3</sup> / <sub>4</sub>   |                                                                            |
| <b>65</b><br><b>2<sup>1</sup>/<sub>2</sub></b><br><b>2<sup>9</sup>/<sub>16</sub></b>                                                                            | <b>UCF313D1</b><br><b>UCF313-208D1</b><br><b>UCF313-209D1</b>                                               | 208                             | 166                             | 33                              | 22                             | 58                              | 23                             | 78                              | 75       | 30       | M20                           | <b>UC313D1</b><br>UC313-208D1<br>UC313-209D1                               |
|                                                                                                                                                                 |                                                                                                             | 8 <sup>3</sup> / <sub>16</sub>  | 6 <sup>17</sup> / <sub>32</sub> | 1 <sup>19</sup> / <sub>64</sub> | <sup>7</sup> / <sub>8</sub>    | 2 <sup>9</sup> / <sub>32</sub>  | <sup>29</sup> / <sub>32</sub>  | 3 <sup>5</sup> / <sub>64</sub>  | 2.9528   | 1.181    | <sup>3</sup> / <sub>4</sub>   |                                                                            |
| <b>70</b><br><b>2<sup>5</sup>/<sub>8</sub></b><br><b>2<sup>11</sup>/<sub>16</sub></b><br><b>2<sup>3</sup>/<sub>4</sub></b>                                      | <b>UCF314D1</b><br><b>UCF314-210D1</b><br><b>UCF314-211D1</b><br><b>UCF314-212D1</b>                        | 226                             | 178                             | 36                              | 25                             | 61                              | 25                             | 81                              | 78       | 33       | M22                           | <b>UC314D1</b><br>UC314-210D1<br>UC314-211D1<br>UC314-212D1                |
|                                                                                                                                                                 |                                                                                                             | 8 <sup>29</sup> / <sub>32</sub> | 6 <sup>1</sup> / <sub>64</sub>  | 1 <sup>27</sup> / <sub>64</sub> | <sup>31</sup> / <sub>32</sub>  | 2 <sup>13</sup> / <sub>32</sub> | <sup>63</sup> / <sub>64</sub>  | 3 <sup>3</sup> / <sub>16</sub>  | 3.0709   | 1.299    | <sup>7</sup> / <sub>8</sub>   |                                                                            |
| <b>75</b><br><b>2<sup>13</sup>/<sub>16</sub></b><br><b>2<sup>7</sup>/<sub>8</sub></b><br><b>2<sup>15</sup>/<sub>16</sub></b><br><b>3</b>                        | <b>UCF315D1</b><br><b>UCF315-213D1</b><br><b>UCF315-214D1</b><br><b>UCF315-215D1</b><br><b>UCF315-300D1</b> | 236                             | 184                             | 39                              | 25                             | 66                              | 25                             | 89                              | 82       | 32       | M22                           | <b>UC315D1</b><br>UC315-213D1<br>UC315-214D1<br>UC315-215D1<br>UC315-300D1 |
|                                                                                                                                                                 |                                                                                                             | 9 <sup>9</sup> / <sub>32</sub>  | 7 <sup>1</sup> / <sub>4</sub>   | 1 <sup>17</sup> / <sub>32</sub> | <sup>31</sup> / <sub>32</sub>  | 2 <sup>19</sup> / <sub>32</sub> | <sup>63</sup> / <sub>64</sub>  | 3 <sup>1</sup> / <sub>2</sub>   | 3.2283   | 1.260    | <sup>7</sup> / <sub>8</sub>   |                                                                            |
| <b>80</b><br><b>3<sup>1</sup>/<sub>16</sub></b><br><b>3<sup>1</sup>/<sub>8</sub></b><br><b>3<sup>3</sup>/<sub>16</sub></b>                                      | <b>UCF316D1</b><br><b>UCF316-301D1</b><br><b>UCF316-302D1</b><br><b>UCF316-303D1</b>                        | 250                             | 196                             | 38                              | 27                             | 68                              | 31                             | 90                              | 86       | 34       | M27                           | <b>UC316D1</b><br>UC316-301D1<br>UC316-302D1<br>UC316-303D1                |
|                                                                                                                                                                 |                                                                                                             | 9 <sup>27</sup> / <sub>32</sub> | 7 <sup>23</sup> / <sub>32</sub> | 1 <sup>1</sup> / <sub>2</sub>   | 1 <sup>1</sup> / <sub>16</sub> | 2 <sup>11</sup> / <sub>16</sub> | 1 <sup>7</sup> / <sub>32</sub> | 3 <sup>35</sup> / <sub>64</sub> | 3.3858   | 1.339    | 1                             |                                                                            |
| <b>85</b><br><b>3<sup>1</sup>/<sub>4</sub></b><br><b>3<sup>5</sup>/<sub>16</sub></b><br><b>3<sup>7</sup>/<sub>16</sub></b>                                      | <b>UCF317D1</b><br><b>UCF317-304D1</b><br><b>UCF317-305D1</b><br><b>UCF317-307D1</b>                        | 260                             | 204                             | 44                              | 27                             | 74                              | 31                             | 100                             | 96       | 40       | M27                           | <b>UC317D1</b><br>UC317-304D1<br>UC317-305D1<br>UC317-307D1                |
|                                                                                                                                                                 |                                                                                                             | 10 <sup>1</sup> / <sub>4</sub>  | 8 <sup>1</sup> / <sub>32</sub>  | 1 <sup>47</sup> / <sub>64</sub> | 1 <sup>1</sup> / <sub>16</sub> | 2 <sup>29</sup> / <sub>32</sub> | 1 <sup>7</sup> / <sub>32</sub> | 3 <sup>15</sup> / <sub>16</sub> | 3.7795   | 1.575    | 1                             |                                                                            |
| <b>90</b><br><b>3<sup>7</sup>/<sub>16</sub></b><br><b>3<sup>1</sup>/<sub>2</sub></b>                                                                            | <b>UCF318D1</b><br><b>UCF318-307D1</b><br><b>UCF318-308D1</b>                                               | 280                             | 216                             | 44                              | 30                             | 76                              | 35                             | 100                             | 96       | 40       | M30                           | <b>UC318D1</b><br>UC318-307D1<br>UC318-308D1                               |
|                                                                                                                                                                 |                                                                                                             | 11 <sup>1</sup> / <sub>32</sub> | 8 <sup>1</sup> / <sub>2</sub>   | 1 <sup>47</sup> / <sub>64</sub> | 1 <sup>3</sup> / <sub>16</sub> | 3                               | 1 <sup>3</sup> / <sub>8</sub>  | 3 <sup>15</sup> / <sub>16</sub> | 3.7795   | 1.575    | 1 <sup>1</sup> / <sub>8</sub> |                                                                            |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

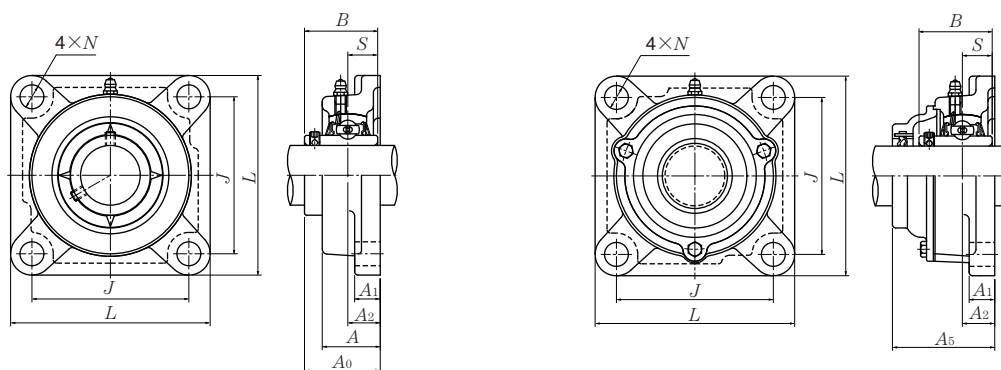


Cast dust cover type (Close end)  
CM-UCF...D1

| Housing<br>number | Unit number <sup>1)</sup><br>cast dust cover type | Nominal<br>dimensions |                | Mass<br>(approx.) |       |
|-------------------|---------------------------------------------------|-----------------------|----------------|-------------------|-------|
|                   |                                                   | mm                    | inch           | kg                | lb    |
|                   |                                                   | t                     | A <sub>5</sub> | UCF               | C(CM) |
| F312D1            | <b>C(CM)-UCF312D1</b>                             | 16                    | 100            | 6.3               | 7.8   |
| F312D1            | C(CM)-UCF312-204D1                                |                       |                |                   |       |
| F312D1            | C(CM)-UCF312-205D1                                | 5/8                   | 3 15/16        | 14                | 17    |
| F312D1            | C(CM)-UCF312-206D1                                |                       |                |                   |       |
| F312D1            | C(CM)-UCF312-207D1                                |                       |                |                   |       |
| F313D1            | <b>C(CM)-UCF313D1</b>                             | 19                    | 103            | 8.0               | 9.7   |
| F313D1            | C(CM)-UCF313-208D1                                | 3/4                   | 4 1/16         | 18                | 21    |
| F313D1            | C(CM)-UCF313-209D1                                |                       |                |                   |       |
| F314D1            | <b>C(CM)-UCF314D1</b>                             | 19                    | 106            | 9.4               | 11    |
| F314D1            | C(CM)-UCF314-210D1                                |                       |                |                   |       |
| F314D1            | C(CM)-UCF314-211D1                                | 3/4                   | 4 3/16         | 21                | 24    |
| F314D1            | C(CM)-UCF314-212D1                                |                       |                |                   |       |
| F315D1            | <b>C(CM)-UCF315D1</b>                             | 19                    | 114            | 11                | 13    |
| F315D1            | C(CM)-UCF315-213D1                                |                       |                |                   |       |
| F315D1            | C(CM)-UCF315-214D1                                | 3/4                   | 4 1/2          | 24                | 29    |
| F315D1            | C(CM)-UCF315-215D1                                |                       |                |                   |       |
| F315D1            | C(CM)-UCF315-300D1                                |                       |                |                   |       |
| F316D1            | <b>C(CM)-UCF316D1</b>                             | 19                    | 116            | 14                | 16    |
| F316D1            | C(CM)-UCF316-301D1                                |                       |                |                   |       |
| F316D1            | C(CM)-UCF316-302D1                                | 3/4                   | 4 9/16         | 31                | 35    |
| F316D1            | C(CM)-UCF316-303D1                                |                       |                |                   |       |
| F317D1            | <b>C(CM)-UCF317D1</b>                             | 21                    | 129            | 15                | 19    |
| F317D1            | C(CM)-UCF317-304D1                                |                       |                |                   |       |
| F317D1            | C(CM)-UCF317-305D1                                | 13/16                 | 5 3/32         | 33                | 42    |
| F317D1            | C(CM)-UCF317-307D1                                |                       |                |                   |       |
| F318D1            | <b>C(CM)-UCF318D1</b>                             | 21                    | 129            | 19                | 23    |
| F318D1            | C(CM)-UCF318-307D1                                | 13/16                 | 5 3/32         | 42                | 51    |
| F318D1            | C(CM)-UCF318-308D1                                |                       |                |                   |       |



# Square flanged units cast housing Set screw type

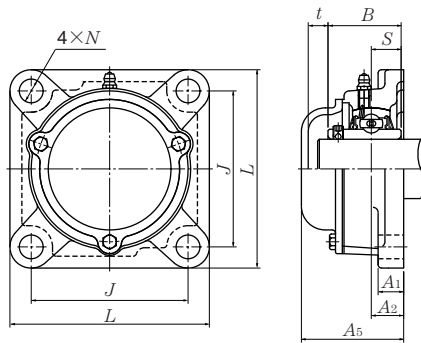


Cast dust cover type (Open end)  
C-UCF...D1

| Shaft dia.                                                                                                      | Unit number <sup>1)</sup>                                                | Nominal dimensions |          |                       |                       |          |          |                       |          |          | Bolt size | Bearing number                                                      |  |
|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------|----------|-----------------------|-----------------------|----------|----------|-----------------------|----------|----------|-----------|---------------------------------------------------------------------|--|
| mm<br>inch                                                                                                      |                                                                          |                    |          |                       | mm                    | inch     |          |                       |          |          |           | mm<br>inch                                                          |  |
|                                                                                                                 |                                                                          | <i>L</i>           | <i>J</i> | <i>A</i> <sub>2</sub> | <i>A</i> <sub>1</sub> | <i>A</i> | <i>N</i> | <i>A</i> <sub>0</sub> | <i>B</i> | <i>S</i> |           |                                                                     |  |
| 95<br>3 <sup>5</sup> / <sub>8</sub><br>3 <sup>11</sup> / <sub>16</sub><br>3 <sup>3</sup> / <sub>4</sub>         | UCF319D1<br>UCF319-310D1<br>UCF319-311D1<br>UCF319-312D1                 | 290                | 228      | 59                    | 30                    | 94       | 35       | 121                   | 103      | 41       | M30       | UC319D1<br>UC319-310D1<br>UC319-311D1<br>UC319-312D1                |  |
| 100<br>3 <sup>13</sup> / <sub>16</sub><br>3 <sup>7</sup> / <sub>8</sub><br>3 <sup>15</sup> / <sub>16</sub><br>4 | UCF320D1<br>UCF320-313D1<br>UCF320-314D1<br>UCF320-315D1<br>UCF320-400D1 | 310                | 242      | 59                    | 32                    | 94       | 38       | 125                   | 108      | 42       | M33       | UC320D1<br>UC320-313D1<br>UC320-314D1<br>UC320-315D1<br>UC320-400D1 |  |
| 105                                                                                                             | UCF321D1                                                                 | 310                | 242      | 59                    | 32                    | 94       | 38       | 127                   | 112      | 44       | M33       | UC321D1                                                             |  |
| 110                                                                                                             | UCF322D1                                                                 | 340                | 266      | 60                    | 35                    | 96       | 41       | 131                   | 117      | 46       | M36       | UC322D1                                                             |  |
| 120                                                                                                             | UCF324D1                                                                 | 370                | 290      | 65                    | 40                    | 110      | 41       | 140                   | 126      | 51       | M36       | UC324D1                                                             |  |
| 130                                                                                                             | UCF326D1                                                                 | 410                | 320      | 65                    | 45                    | 115      | 41       | 146                   | 135      | 54       | M36       | UC326D1                                                             |  |
| 140                                                                                                             | UCF328D1                                                                 | 450                | 350      | 75                    | 55                    | 125      | 41       | 161                   | 145      | 59       | M36       | UC328D1                                                             |  |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

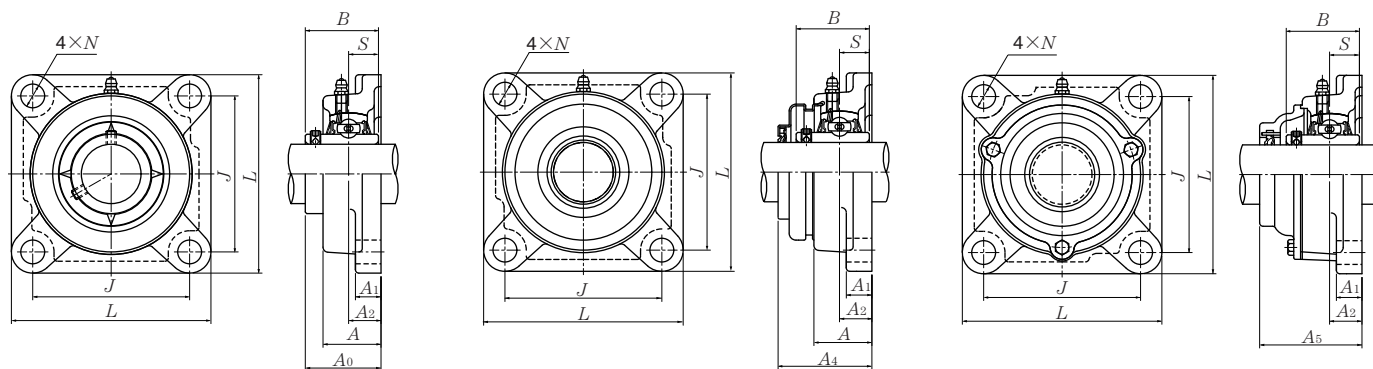
Note: Please refer to page 36 for size of grease fitting.



Cast dust cover type (Close end)  
CM-UCF...D1

| Housing<br>number <sup>1)</sup> | Unit number <sup>1)</sup><br>cast dust cover type | Nominal<br>dimensions |                      | Mass<br>(approx.) |       |
|---------------------------------|---------------------------------------------------|-----------------------|----------------------|-------------------|-------|
|                                 |                                                   | mm                    | inch                 | kg                | lb    |
|                                 |                                                   | <i>t</i>              | <i>A<sub>5</sub></i> | UCF               | C(CM) |
| F319D1                          | C(CM)-UCF319D1                                    | 20                    | 149                  | 22                | 25    |
| F319D1                          | C(CM)-UCF319-310D1                                |                       |                      |                   |       |
| F319D1                          | C(CM)-UCF319-311D1                                | $\frac{25}{32}$       | $5\frac{7}{8}$       | 49                | 55    |
| F319D1                          | C(CM)-UCF319-312D1                                |                       |                      |                   |       |
| F320D1                          | C(CM)-UCF320D1                                    | 20                    | 154                  | 27                | 32    |
| F320D1                          | C(CM)-UCF320-313D1                                |                       |                      |                   |       |
| F320D1                          | C(CM)-UCF320-314D1                                | $\frac{25}{32}$       | $6\frac{1}{16}$      | 60                | 71    |
| F320D1                          | C(CM)-UCF320-315D1                                |                       |                      |                   |       |
| F320D1                          | C(CM)-UCF320-400D1                                |                       |                      |                   |       |
| F321D1                          | C(CM)-UCF321D1                                    | 20                    | 156                  | 26                | 32    |
| F322D1                          | C(CM)-UCF322D1                                    | 20                    | 160                  | 34                | 40    |
| F324D1                          | C(CM)-UCF324D1                                    | 22                    | 172                  | 48                | 56    |
| F326D1                          | C(CM)-UCF326D1                                    | 22                    | 178                  | 63                | 73    |
| F328D1                          | C(CM)-UCF328D1                                    | 21                    | 192                  | 90                | 100   |

# Square flanged units cast housing Set screw type



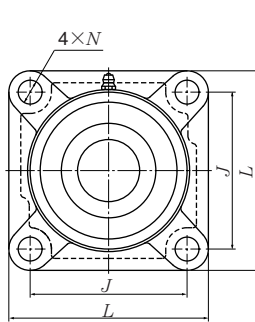
Press steel dust cover type (Open end)  
S-UCF...D1

Cast dust cover type (Open end)  
C-UCF...D1

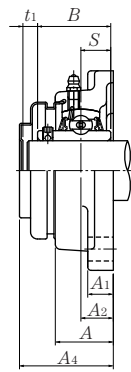
| Shaft<br>dia.                                                                                                                                     | Unit number <sup>1)</sup>                                                                                   | Nominal dimensions |          |                       |                       |          |          |                       |          |            | Bolt<br>size | Bearing number                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------|----------|-----------------------|-----------------------|----------|----------|-----------------------|----------|------------|--------------|----------------------------------------------------------------------------|
| mm<br>inch                                                                                                                                        |                                                                                                             | mm                 |          |                       |                       | inch     |          |                       |          | mm<br>inch |              |                                                                            |
|                                                                                                                                                   |                                                                                                             | <i>L</i>           | <i>J</i> | <i>A</i> <sub>2</sub> | <i>A</i> <sub>1</sub> | <i>A</i> | <i>N</i> | <i>A</i> <sub>0</sub> | <i>B</i> | <i>S</i>   |              |                                                                            |
| <b>25</b><br>1 <sup>3</sup> / <sub>16</sub><br>7 <sup>7</sup> / <sub>8</sub><br>1 <sup>15</sup> / <sub>16</sub><br><b>1</b>                       | <b>UCFX05D1</b><br><b>UCFX05-013D1</b><br><b>UCFX05-014D1</b><br><b>UCFX05-015D1</b><br><b>UCFX05-100D1</b> | 108                | 83       | 18                    | 13                    | 30       | 12       | 40.2                  | 38.1     | 15.9       | M10          | <b>UCX05D1</b><br>UCX05-013D1<br>UCX05-014D1<br>UCX05-015D1<br>UCX05-100D1 |
| <b>30</b><br>1 <sup>1</sup> / <sub>16</sub><br>1 <sup>1</sup> / <sub>8</sub><br>1 <sup>3</sup> / <sub>16</sub><br>1 <sup>1</sup> / <sub>4</sub>   | <b>UCFX06D1</b><br><b>UCFX06-101D1</b><br><b>UCFX06-102D1</b><br><b>UCFX06-103D1</b><br><b>UCFX06-104D1</b> | 117                | 92       | 19                    | 14                    | 34       | 16       | 44.4                  | 42.9     | 17.5       | M14          | <b>UCX06D1</b><br>UCX06-101D1<br>UCX06-102D1<br>UCX06-103D1<br>UC207-104D1 |
| <b>35</b><br>1 <sup>5</sup> / <sub>16</sub><br>1 <sup>3</sup> / <sub>8</sub><br>1 <sup>7</sup> / <sub>16</sub>                                    | <b>UCFX07D1</b><br><b>UCFX07-105D1</b><br><b>UCFX07-106D1</b><br><b>UCFX07-107D1</b>                        | 130                | 102      | 21                    | 14                    | 38       | 16       | 51.2                  | 49.2     | 19         | M14          | <b>UCX07D1</b><br>UCX07-105D1<br>UCX07-106D1<br>UCX07-107D1                |
| <b>40</b><br>1 <sup>1</sup> / <sub>2</sub><br>1 <sup>9</sup> / <sub>16</sub>                                                                      | <b>UCFX08D1</b><br><b>UCFX08-108D1</b><br><b>UCFX08-109D1</b>                                               | 137                | 105      | 22                    | 14                    | 40       | 19       | 52.2                  | 49.2     | 19         | M16          | <b>UCX08D1</b><br>UCX08-108D1<br>UCX08-109D1                               |
| <b>45</b><br>1 <sup>5</sup> / <sub>8</sub><br>1 <sup>11</sup> / <sub>16</sub><br>1 <sup>3</sup> / <sub>4</sub><br>1 <sup>13</sup> / <sub>16</sub> | <b>UCFX09D1</b><br><b>UCFX09-110D1</b><br><b>UCFX09-111D1</b><br><b>UCFX09-112D1</b><br><b>UCFX09-113D1</b> | 143                | 111      | 23                    | 14                    | 40       | 19       | 55.6                  | 51.6     | 19         | M16          | <b>UCX09D1</b><br>UCX09-110D1<br>UCX09-111D1<br>UCX09-112D1<br>UC210-113D1 |
| <b>50</b><br>1 <sup>7</sup> / <sub>8</sub><br>1 <sup>15</sup> / <sub>16</sub><br><b>2</b>                                                         | <b>UCFX10D1</b><br><b>UCFX10-114D1</b><br><b>UCFX10-115D1</b><br><b>UCFX10-200D1</b>                        | 162                | 130      | 26                    | 20                    | 44       | 19       | 59.4                  | 55.6     | 22.2       | M16          | <b>UCX10D1</b><br>UCX10-114D1<br>UCX10-115D1<br>UC211-200D1                |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.



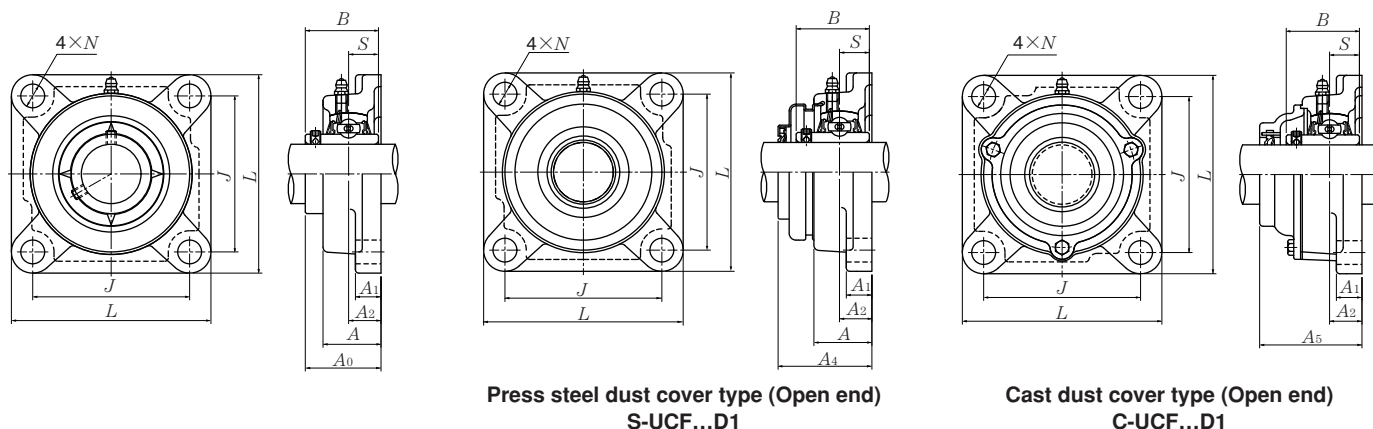
Press steel dust cover type (Close end)  
SM-UCF...D1



Cast dust cover type (Close end)  
CM-UCF...D1

| Housing<br>number <sup>1)</sup> | Unit number <sup>1)</sup><br>pressed steel dust<br>cover type | Unit number <sup>1)</sup><br>cast dust cover type | Nominal dimensions |                |                |                | Mass<br>(approx.) |       |       |
|---------------------------------|---------------------------------------------------------------|---------------------------------------------------|--------------------|----------------|----------------|----------------|-------------------|-------|-------|
|                                 |                                                               |                                                   | mm                 |                | inch           |                | kg                |       | lb    |
|                                 |                                                               |                                                   | t <sub>1</sub>     | t <sub>2</sub> | A <sub>4</sub> | A <sub>5</sub> | UCFX              | S(SM) | C(CM) |
| FX05D1                          | <b>S(SM)-UCFX05D1</b>                                         | <b>C(CM)-UCFX05D1</b>                             | 7                  | 11             | 49             | 56             | 1.1               | 1.2   | 1.3   |
| FX05D1                          | S(SM)-UCFX05-013D1                                            | C(CM)-UCFX05-013D1                                |                    |                |                |                |                   |       |       |
| FX05D1                          | S(SM)-UCFX05-014D1                                            | C(CM)-UCFX05-014D1                                | 9/32               | 7/16           | 1 15/16        | 2 7/32         | 2.4               | 2.7   | 2.9   |
| FX05D1                          | S(SM)-UCFX05-015D1                                            | C(CM)-UCFX05-015D1                                |                    |                |                |                |                   |       |       |
| FX05D1                          | S(SM)-UCFX05-100D1                                            | C(CM)-UCFX05-100D1                                |                    |                |                |                |                   |       |       |
| FX06D1                          | <b>S(SM)-UCFX06D1</b>                                         | <b>C(CM)-UCFX06D1</b>                             | 8                  | 10             | 55             | 59             | 1.7               | 1.8   | 1.9   |
| FX06D1                          | S(SM)-UCFX06-101D1                                            | C(CM)-UCFX06-101D1                                |                    |                |                |                |                   |       |       |
| FX06D1                          | S(SM)-UCFX06-102D1                                            | C(CM)-UCFX06-102D1                                | 5/16               | 25/64          | 2 5/32         | 2 5/16         | 3.8               | 4.0   | 4.2   |
| FX06D1                          | S(SM)-UCFX06-103D1                                            | C(CM)-UCFX06-103D1                                |                    |                |                |                |                   |       |       |
| FX06D1                          | S(SM)-UCFX06-104D1                                            | C(CM)-UCFX06-104D1                                |                    |                |                |                |                   |       |       |
| FX07D1                          | <b>S(SM)-UCFX07D1</b>                                         | <b>C(CM)-UCFX07D1</b>                             | 8                  | 9              | 62             | 66             | 2.1               | 2.2   | 2.5   |
| FX07D1                          | S(SM)-UCFX07-105D1                                            | C(CM)-UCFX07-105D1                                |                    |                |                |                |                   |       |       |
| FX07D1                          | S(SM)-UCFX07-106D1                                            | C(CM)-UCFX07-106D1                                | 5/16               | 23/64          | 2 7/16         | 2 19/32        | 4.6               | 4.9   | 5.5   |
| FX07D1                          | S(SM)-UCFX07-107D1                                            | C(CM)-UCFX07-107D1                                |                    |                |                |                |                   |       |       |
| FX08D1                          | <b>S(SM)-UCFX08D1</b>                                         | <b>C(CM)-UCFX08D1</b>                             | 8                  | 12             | 63             | 70             | 2.3               | 2.4   | 2.7   |
| FX08D1                          | S(SM)-UCFX08-108D1                                            | C(CM)-UCFX08-108D1                                | 5/16               | 15/32          | 2 15/32        | 2 3/4          | 5.1               | 5.3   | 6.0   |
| FX08D1                          | S(SM)-UCFX08-109D1                                            | C(CM)-UCFX08-109D1                                |                    |                |                |                |                   |       |       |
| FX09D1                          | <b>S(SM)-UCFX09D1</b>                                         | <b>C(CM)-UCFX09D1</b>                             | 7                  | 12             | 65.5           | 73             | 2.5               | 2.6   | 3.0   |
| FX09D1                          | S(SM)-UCFX09-110D1                                            | C(CM)-UCFX09-110D1                                |                    |                |                |                |                   |       |       |
| FX09D1                          | S(SM)-UCFX09-111D1                                            | C(CM)-UCFX09-111D1                                | 9/32               | 15/32          | 2 19/32        | 2 7/8          | 5.5               | 5.7   | 6.6   |
| FX09D1                          | S(SM)-UCFX09-112D1                                            | C(CM)-UCFX09-112D1                                |                    |                |                |                |                   |       |       |
| FX09D1                          | S(SM)-UCFX09-113D1                                            | C(CM)-UCFX09-113D1                                |                    |                |                |                |                   |       |       |
| FX10D1                          | <b>S(SM)-UCFX10D1</b>                                         | <b>C(CM)-UCFX10D1</b>                             | 9                  | 11             | 71             | 76             | 3.8               | 3.9   | 4.3   |
| FX10D1                          | S(SM)-UCFX10-114D1                                            | C(CM)-UCFX10-114D1                                |                    |                |                |                |                   |       |       |
| FX10D1                          | S(SM)-UCFX10-115D1                                            | C(CM)-UCFX10-115D1                                | 23/64              | 7/16           | 2 25/32        | 3              | 8.4               | 8.6   | 9.5   |
| FX10D1                          | S(SM)-UCFX10-200D1                                            | C(CM)-UCFX10-200D1                                |                    |                |                |                |                   |       |       |

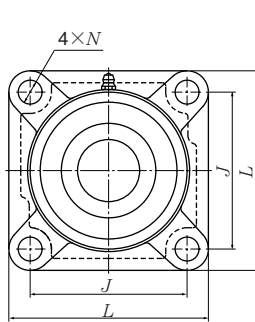
# Square flanged units cast housing Set screw type



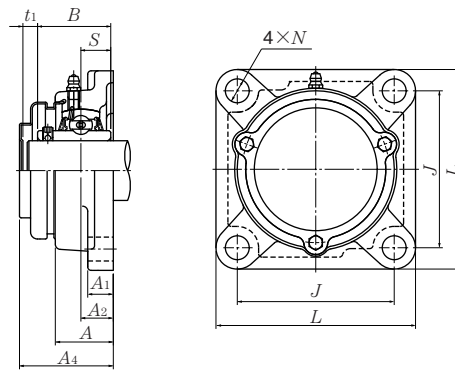
| Shaft<br>dia.                                                                                                                                                                     | Unit number <sup>1)</sup>                                                                       | Nominal dimensions |          |                       |                       |          |          |                       |          |          | Bolt<br>size | Bearing number                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------|----------|-----------------------|-----------------------|----------|----------|-----------------------|----------|----------|--------------|-------------------------------------------------------------------------------------------|
|                                                                                                                                                                                   |                                                                                                 | mm                 |          |                       |                       | inch     |          |                       |          |          |              |                                                                                           |
| mm<br>inch                                                                                                                                                                        |                                                                                                 | <i>L</i>           | <i>J</i> | <i>A</i> <sub>2</sub> | <i>A</i> <sub>1</sub> | <i>A</i> | <i>N</i> | <i>A</i> <sub>0</sub> | <i>B</i> | <i>S</i> | mm<br>inch   |                                                                                           |
| <b>55</b><br>2 <sup>1</sup> / <sub>16</sub><br>2 <sup>1</sup> / <sub>8</sub><br>2 <sup>3</sup> / <sub>16</sub><br>2 <sup>2</sup> / <sub>4</sub><br>2 <sup>5</sup> / <sub>16</sub> | <b>UCFX11D1</b><br>UCFX11-201D1<br>UCFX11-202D1<br>UCFX11-203D1<br>UCFX11-204D1<br>UCFX11-205D1 | 175                | 143      | 29                    | 20                    | 49       | 19       | 68.7                  | 65.1     | 25.4     | M16          | <b>UCX11D1</b><br>UCX11-201D1<br>UCX11-202D1<br>UCX11-203D1<br>UC212-204D1<br>UC212-205D1 |
| <b>60</b><br>2 <sup>3</sup> / <sub>8</sub><br>2 <sup>7</sup> / <sub>16</sub>                                                                                                      | <b>UCFX12D1</b><br>UCFX12-206D1<br>UCFX12-207D1                                                 | 187                | 149      | 34                    | 21                    | 59       | 19       | 73.7                  | 65.1     | 25.4     | M16          | <b>UCX12D1</b><br>UCX12-206D1<br>UCX12-207D1                                              |
| <b>65</b><br>2 <sup>1</sup> / <sub>2</sub><br>2 <sup>9</sup> / <sub>16</sub>                                                                                                      | <b>UCFX13D1</b><br>UCFX13-208D1<br>UCFX13-209D1                                                 | 187                | 149      | 34                    | 21                    | 59       | 19       | 78.4                  | 74.6     | 30.2     | M16          | <b>UCX13D1</b><br>UCX13-208D1<br>UCX13-209D1                                              |
| <b>70</b><br>2 <sup>5</sup> / <sub>8</sub><br>2 <sup>11</sup> / <sub>16</sub><br>2 <sup>3</sup> / <sub>4</sub>                                                                    | <b>UCFX14D1</b><br>UCFX14-210D1<br>UCFX14-211D1<br>UCFX14-212D1                                 | 197                | 152      | 37                    | 24                    | 60       | 23       | 81.5                  | 77.8     | 33.3     | M20          | <b>UCX14D1</b><br>UCX14-210D1<br>UCX14-211D1<br>UCX14-212D1                               |
| <b>75</b><br>2 <sup>13</sup> / <sub>16</sub><br>2 <sup>7</sup> / <sub>8</sub><br>2 <sup>15</sup> / <sub>16</sub><br>3                                                             | <b>UCFX15D1</b><br>UCFX15-213D1<br>UCFX15-214D1<br>UCFX15-215D1<br>UCFX15-300D1                 | 197                | 152      | 40                    | 24                    | 68       | 23       | 89.3                  | 82.6     | 33.3     | M20          | <b>UCX15D1</b><br>UCX15-213D1<br>UCX15-214D1<br>UCX15-215D1<br>UCX15-300D1                |
| <b>80</b><br>3 <sup>1</sup> / <sub>16</sub><br>3 <sup>1</sup> / <sub>8</sub><br>3 <sup>3</sup> / <sub>16</sub><br>3 <sup>1</sup> / <sub>4</sub>                                   | <b>UCFX16D1</b><br>UCFX16-301D1<br>UCFX16-302D1<br>UCFX16-303D1<br>UCFX16-304D1                 | 214                | 171      | 40                    | 24                    | 70       | 23       | 91.6                  | 85.7     | 34.1     | M20          | <b>UCX16D1</b><br>UCX16-301D1<br>UCX16-302D1<br>UCX16-303D1<br>UC217-304D1                |
| <b>85</b><br>3 <sup>5</sup> / <sub>16</sub><br>3 <sup>7</sup> / <sub>16</sub>                                                                                                     | <b>UCFX17D1</b><br>UCFX17-305D1<br>UCFX17-307D1                                                 | 214                | 171      | 40                    | 24                    | 70       | 23       | 96.3                  | 96       | 39.7     | M20          | <b>UCX17D1</b><br>UCX17-305D1<br>UCX17-307D1                                              |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.



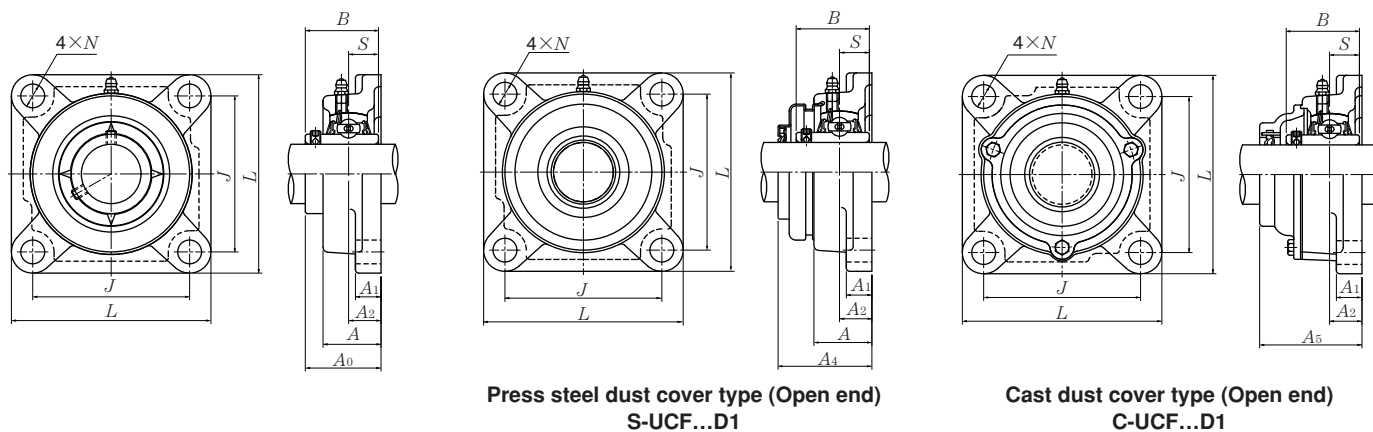
Press steel dust cover type (Close end)  
SM-UCF...D1



Cast dust cover type (Close end)  
CM-UCF...D1

| Housing number <sup>1)</sup> | Unit number <sup>1)</sup><br>pressed steel dust cover type | Unit number <sup>1)</sup><br>cast dust cover type | Nominal dimensions |                |                |                | Mass (approx.) |       |       |
|------------------------------|------------------------------------------------------------|---------------------------------------------------|--------------------|----------------|----------------|----------------|----------------|-------|-------|
|                              |                                                            |                                                   | mm                 |                | inch           |                | kg             |       | lb    |
|                              |                                                            |                                                   | t <sub>1</sub>     | t <sub>2</sub> | A <sub>4</sub> | A <sub>5</sub> | UCFX           | S(SM) | C(CM) |
| FX11D1                       | <b>S(SM)-UCFX11D1</b>                                      | <b>C(CM)-UCFX11D1</b>                             | 8                  | 12             | 80             | 86             | 4.8            | 5.0   | 5.5   |
| FX11D1                       | S(SM)-UCFX11-201D1                                         | C(CM)-UCFX11-201D1                                |                    |                |                |                |                |       |       |
| FX11D1                       | S(SM)-UCFX11-202D1                                         | C(CM)-UCFX11-202D1                                |                    |                |                |                |                |       |       |
| FX11D1                       | S(SM)-UCFX11-203D1                                         | C(CM)-UCFX11-203D1                                | 5/16               | 15/32          | 3 25/32        | 3 3/8          | 11             | 11    | 12    |
| FX11D1                       | S(SM)-UCFX11-204D1                                         | C(CM)-UCFX11-204D1                                |                    |                |                |                |                |       |       |
| FX11D1                       | S(SM)-UCFX11-205D1                                         | C(CM)-UCFX11-205D1                                |                    |                |                |                |                |       |       |
| FX12D1                       | <b>S(SM)-UCFX12D1</b>                                      | <b>C(CM)-UCFX12D1</b>                             | 7                  | 15             | 83.5           | 94             | 6.4            | 6.6   | 7.3   |
| FX12D1                       | S(SM)-UCFX12-206D1                                         | C(CM)-UCFX12-206D1                                | 9/32               | 19/32          | 3 9/32         | 3 11/16        | 14             | 15    | 16    |
| FX12D1                       | S(SM)-UCFX12-207D1                                         | C(CM)-UCFX12-207D1                                |                    |                |                |                |                |       |       |
| FX13D1                       | —                                                          | <b>C(CM)-UCFX13D1</b>                             | —                  | 16             | —              | 101            | 6.7            | —     | 7.8   |
| FX13D1                       | —                                                          | C(CM)-UCFX13-208D1                                | —                  | 5/8            | —              | 3 31/32        | 15             | —     | 17    |
| FX13D1                       | —                                                          | C(CM)-UCFX13-209D1                                |                    |                |                |                |                |       |       |
| FX14D1                       | —                                                          | <b>C(CM)-UCFX14D1</b>                             | —                  | 17             | —              | 105            | 7.1            | —     | 8.3   |
| FX14D1                       | —                                                          | C(CM)-UCFX14-210D1                                |                    |                |                |                |                |       |       |
| FX14D1                       | —                                                          | C(CM)-UCFX14-211D1                                | —                  | 2 1/32         | —              | 4 1/8          | 16             | —     | 18    |
| FX14D1                       | —                                                          | C(CM)-UCFX14-212D1                                |                    |                |                |                |                |       |       |
| FX15D1                       | —                                                          | <b>C(CM)-UCFX15D1</b>                             | —                  | 16             | —              | 112            | 8.6            | —     | 9.9   |
| FX15D1                       | —                                                          | C(CM)-UCFX15-213D1                                |                    |                |                |                |                |       |       |
| FX15D1                       | —                                                          | C(CM)-UCFX15-214D1                                | —                  | 5/8            | —              | 4 13/32        | 19             | —     | 22    |
| FX15D1                       | —                                                          | C(CM)-UCFX15-215D1                                |                    |                |                |                |                |       |       |
| FX15D1                       | —                                                          | C(CM)-UCFX15-300D1                                |                    |                |                |                |                |       |       |
| FX16D1                       | —                                                          | <b>C(CM)-UCFX16D1</b>                             | —                  | 20             | —              | 118            | 11             | —     | 12    |
| FX16D1                       | —                                                          | C(CM)-UCFX16-301D1                                |                    |                |                |                |                |       |       |
| FX16D1                       | —                                                          | C(CM)-UCFX16-302D1                                | —                  | 25/32          | —              | 4 21/32        | 24             | —     | 26    |
| FX16D1                       | —                                                          | C(CM)-UCFX16-303D1                                |                    |                |                |                |                |       |       |
| FX16D1                       | —                                                          | C(CM)-UCFX16-304D1                                |                    |                |                |                |                |       |       |
| FX17D1                       | —                                                          | <b>C(CM)-UCFX17D1</b>                             | —                  | 19             | —              | 122            | 12             | —     | 14    |
| FX17D1                       | —                                                          | C(CM)-UCFX17-305D1                                | —                  | 3/4            | —              | 4 13/16        | 26             | —     | 31    |
| FX17D1                       | —                                                          | C(CM)-UCFX17-307D1                                |                    |                |                |                |                |       |       |

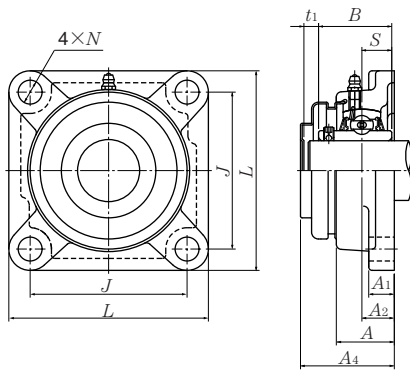
## Square flanged units cast housing Set screw type



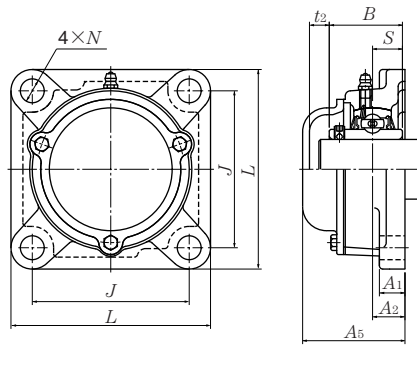
| Shaft<br>dia.                                                                                                                             | Unit number <sup>1)</sup>                                                                                   | Nominal dimensions                                |                                                   |                                                  |                                                 |                                                  |                                                 |                                                     |                               |                             | Bolt<br>size             | Bearing number                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------------|--------------------------------------------------|-------------------------------------------------|--------------------------------------------------|-------------------------------------------------|-----------------------------------------------------|-------------------------------|-----------------------------|--------------------------|--------------------------------------------------------------------------------------------------------|
|                                                                                                                                           |                                                                                                             | mm                                                |                                                   |                                                  |                                                 |                                                  | inch                                            |                                                     |                               |                             |                          |                                                                                                        |
|                                                                                                                                           |                                                                                                             | <i>L</i>                                          | <i>J</i>                                          | <i>A</i> <sub>2</sub>                            | <i>A</i> <sub>1</sub>                           | <i>A</i>                                         | <i>N</i>                                        | <i>A</i> <sub>0</sub>                               | <i>B</i>                      | <i>S</i>                    |                          |                                                                                                        |
| <b>90</b><br><b>3<sup>7</sup>/<sub>16</sub></b><br><b>3<sup>1</sup>/<sub>2</sub></b>                                                      | <b>UCFX18D1</b><br><b>UCFX18-307D1</b><br><b>UCFX18-308D1</b>                                               | <b>214</b><br><b>8<sup>7</sup>/<sub>16</sub></b>  | <b>171</b><br><b>6<sup>47</sup>/<sub>64</sub></b> | <b>45</b><br><b>1<sup>49</sup>/<sub>64</sub></b> | <b>24</b><br><b>1<sup>5</sup>/<sub>16</sub></b> | <b>76</b><br><b>3</b>                            | <b>23</b><br><b>2<sup>9</sup>/<sub>32</sub></b> | <b>106.1</b><br><b>4<sup>11</sup>/<sub>64</sub></b> | <b>104</b><br><b>4.0945</b>   | <b>42.9</b><br><b>1.689</b> | <b>M20</b><br><b>3/4</b> | <b>UCX18D1</b><br><b>UCX18-307D1</b><br><b>UCX18-308D1</b>                                             |
| <b>100</b><br><b>3<sup>13</sup>/<sub>16</sub></b><br><b>3<sup>7</sup>/<sub>8</sub></b><br><b>3<sup>15</sup>/<sub>16</sub></b><br><b>4</b> | <b>UCFX20D1</b><br><b>UCFX20-313D1</b><br><b>UCFX20-314D1</b><br><b>UCFX20-315D1</b><br><b>UCFX20-400D1</b> | <b>268</b><br><b>10<sup>9</sup>/<sub>16</sub></b> | <b>211</b><br><b>8<sup>5</sup>/<sub>16</sub></b>  | <b>59</b><br><b>2<sup>21</sup>/<sub>64</sub></b> | <b>31</b><br><b>1<sup>7</sup>/<sub>32</sub></b> | <b>97</b><br><b>3<sup>13</sup>/<sub>16</sub></b> | <b>31</b><br><b>1<sup>7</sup>/<sub>32</sub></b> | <b>127.3</b><br><b>5<sup>1</sup>/<sub>64</sub></b>  | <b>117.5</b><br><b>4.6260</b> | <b>49.2</b><br><b>1.937</b> | <b>M27</b><br><b>1</b>   | <b>UCX20D1</b><br><b>UCX20-313D1</b><br><b>UCX20-314D1</b><br><b>UCX20-315D1</b><br><b>UCX20-400D1</b> |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.



Press steel dust cover type (Close end)  
SM-UCF...D1



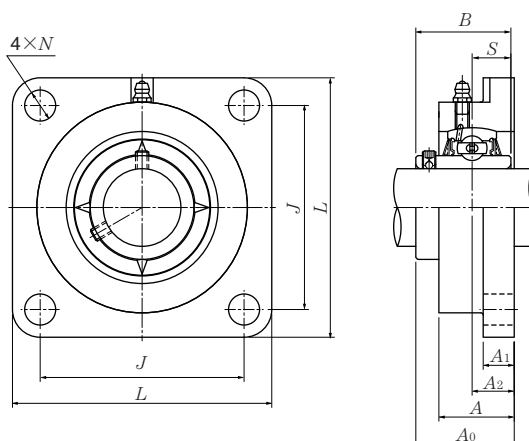
Cast dust cover type (Close end)  
CM-UCF...D1

| Housing<br>number | Unit number <sup>1)</sup><br>cast dust cover type | Nominal dimensions |                |                                 | Mass<br>(approx.) |       |
|-------------------|---------------------------------------------------|--------------------|----------------|---------------------------------|-------------------|-------|
|                   |                                                   | mm                 |                | inch                            | kg                | lb    |
|                   |                                                   | t <sub>1</sub>     | t <sub>2</sub> | A <sub>5</sub>                  | UCFX              | C(CM) |
| FX18D1            | <b>C(CM)-UCFX18D1</b>                             | —                  | 22             | 135                             | 13                | 15    |
| FX18D1            | <b>C(CM)-UCFX18-307D1</b>                         | —                  | 7/8            | 5 <sup>5</sup> / <sub>16</sub>  | 29                | 33    |
| FX18D1            | <b>C(CM)-UCFX18-308D1</b>                         | —                  |                |                                 |                   |       |
| FX20D1            | <b>C(CM)-UCFX20D1</b>                             | —                  | 23             | 146.5                           | 21                | 23    |
| FX20D1            | <b>C(CM)-UCFX20-313D1</b>                         | —                  |                |                                 |                   |       |
| FX20D1            | <b>C(CM)-UCFX20-314D1</b>                         | —                  | 29/32          | 5 <sup>49</sup> / <sub>64</sub> | 46                | 51    |
| FX20D1            | <b>C(CM)-UCFX20-315D1</b>                         |                    |                |                                 |                   |       |
| FX20D1            | <b>C(CM)-UCFX20-400D1</b>                         |                    |                |                                 |                   |       |



# Square flanged units (Steel series)

## Set screw type



| Shaft<br>dia.<br><br>mm | Unit number <sup>1)</sup> | Nominal dimensions |     |                |                |      |    |                |      |      | Bolt<br>size<br><br>mm | Bearing number |
|-------------------------|---------------------------|--------------------|-----|----------------|----------------|------|----|----------------|------|------|------------------------|----------------|
|                         |                           | L                  | J   | A <sub>2</sub> | A <sub>1</sub> | A    | N  | A <sub>0</sub> | B    | S    |                        |                |
| 12                      | UCFG201D1                 | 86                 | 64  | 15             | 11             | 25.5 | 12 | 33.3           | 31   | 12.7 | M10                    | UC201D1        |
| 15                      | UCFG202D1                 | 86                 | 64  | 15             | 11             | 25.5 | 12 | 33.3           | 31   | 12.7 | M10                    | UC202D1        |
| 17                      | UCFG203D1                 | 86                 | 64  | 15             | 11             | 25.5 | 12 | 33.3           | 31   | 12.7 | M10                    | UC203D1        |
| 20                      | UCFG204D1                 | 86                 | 64  | 15             | 11             | 25.5 | 12 | 33.3           | 31   | 12.7 | M10                    | UC204D1        |
| 25                      | UCFG205D1                 | 95                 | 70  | 16             | 13             | 27   | 12 | 35.7           | 34   | 14.3 | M10                    | UC205D1        |
| 30                      | UCFG206D1                 | 108                | 83  | 18             | 13             | 31   | 12 | 40.2           | 38.1 | 15.9 | M10                    | UC206D1        |
| 35                      | UCFG207D1                 | 117                | 92  | 19             | 15             | 34   | 14 | 44.4           | 42.9 | 17.5 | M12                    | UC207D1        |
| 40                      | UCFG208D1                 | 130                | 102 | 21             | 15             | 36   | 16 | 51.2           | 49.2 | 19   | M14                    | UC208D1        |
| 45                      | UCFG209D1                 | 137                | 105 | 22             | 16             | 38   | 16 | 52.2           | 49.2 | 19   | M14                    | UC209D1        |
| 50                      | UCFG210D1                 | 143                | 111 | 22             | 16             | 40   | 16 | 54.6           | 51.6 | 19   | M14                    | UC210D1        |
| 55                      | UCFG211D1                 | 162                | 130 | 25             | 18             | 43   | 19 | 58.4           | 55.6 | 22.2 | M16                    | UC211D1        |
| 60                      | UCFG212D1                 | 175                | 143 | 29             | 18             | 48   | 19 | 68.7           | 65.1 | 25.4 | M16                    | UC212D1        |
| 65                      | UCFG213D1                 | 187                | 149 | 30             | 22             | 50   | 19 | 69.7           | 65.1 | 25.4 | M16                    | UC213D1        |
| 70                      | UCFG214D1                 | 193                | 152 | 31             | 22             | 54   | 19 | 75.4           | 74.6 | 30.2 | M16                    | UC214D1        |
| 75                      | UCFG215D1                 | 200                | 159 | 34             | 22             | 56   | 19 | 78.5           | 77.8 | 33.3 | M16                    | UC215D1        |
| 80                      | UCFG216D1                 | 208                | 165 | 34             | 22             | 58   | 23 | 83.3           | 82.6 | 33.3 | M20                    | UC216D1        |
| 85                      | UCFG217D1                 | 220                | 175 | 36             | 24             | 63   | 23 | 87.6           | 85.7 | 34.1 | M20                    | UC217D1        |
| 90                      | UCFG218D1                 | 235                | 187 | 40             | 24             | 68   | 23 | 96.3           | 96   | 39.7 | M20                    | UC218D1        |

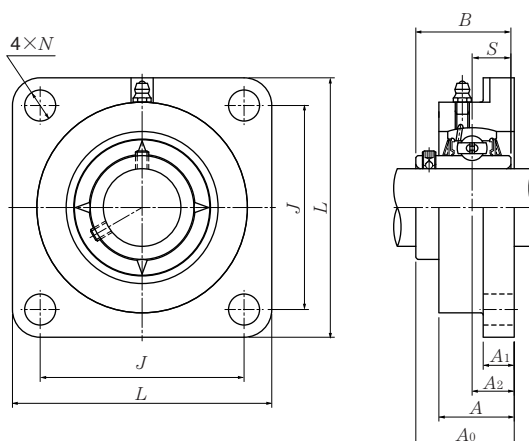
Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: 1) Please refer to page 36 for size of grease fitting.

2) Please refer to page 414-419 for inch series bearings.

| Housing <sup>1)</sup><br>number | Mass<br>(approx.)<br><br>kg |
|---------------------------------|-----------------------------|
| FG204D1                         | 0.8                         |
| FG204D1                         | 0.8                         |
| FG204D1                         | 0.8                         |
| FG204D1                         | 0.8                         |
| FG205D1                         | 1.0                         |
| FG206D1                         | 1.5                         |
| FG207D1                         | 2.0                         |
| FG208D1                         | 2.4                         |
| FG209D1                         | 2.8                         |
| FG210D1                         | 3.2                         |
| FG211D1                         | 4.6                         |
| FG212D1                         | 5.7                         |
| FG213D1                         | 7.4                         |
| FG214D1                         | 8.1                         |
| FG215D1                         | 9.0                         |
| FG216D1                         | 10                          |
| FG217D1                         | 12                          |
| FG218D1                         | 15                          |

**Square flanged units (Steel series)**  
**Set screw type**



| Shaft<br>dia.<br><br>mm | Unit number <sup>1)</sup> | Nominal dimensions |     |                |                |     |    |                |     |    | Bolt<br>size<br><br>mm | Bearing number |
|-------------------------|---------------------------|--------------------|-----|----------------|----------------|-----|----|----------------|-----|----|------------------------|----------------|
|                         |                           | L                  | J   | A <sub>2</sub> | A <sub>1</sub> | A   | N  | A <sub>0</sub> | B   | S  |                        |                |
| 25                      | UCFG305D1                 | 110                | 80  | 16             | 13             | 29  | 16 | 39             | 38  | 15 | M14                    | UC305D1        |
| 30                      | UCFG306D1                 | 125                | 95  | 18             | 15             | 32  | 16 | 44             | 43  | 17 | M14                    | UC306D1        |
| 35                      | UCFG307D1                 | 135                | 100 | 20             | 16             | 36  | 19 | 49             | 48  | 19 | M16                    | UC307D1        |
| 40                      | UCFG308D1                 | 150                | 112 | 23             | 17             | 40  | 19 | 56             | 52  | 19 | M16                    | UC308D1        |
| 45                      | UCFG309D1                 | 160                | 125 | 25             | 18             | 44  | 19 | 60             | 57  | 22 | M16                    | UC309D1        |
| 50                      | UCFG310D1                 | 175                | 132 | 28             | 19             | 48  | 23 | 67             | 61  | 22 | M20                    | UC310D1        |
| 55                      | UCFG311D1                 | 185                | 140 | 30             | 20             | 52  | 23 | 71             | 66  | 25 | M20                    | UC311D1        |
| 60                      | UCFG312D1                 | 195                | 150 | 33             | 22             | 56  | 23 | 78             | 71  | 26 | M20                    | UC312D1        |
| 65                      | UCFG313D1                 | 208                | 166 | 33             | 22             | 58  | 23 | 78             | 75  | 30 | M20                    | UC313D1        |
| 70                      | UCFG314D1                 | 226                | 178 | 36             | 25             | 61  | 25 | 81             | 78  | 33 | M22                    | UC314D1        |
| 75                      | UCFG315D1                 | 236                | 184 | 39             | 25             | 66  | 25 | 89             | 82  | 32 | M22                    | UC315D1        |
| 80                      | UCFG316D1                 | 250                | 196 | 38             | 27             | 68  | 31 | 90             | 86  | 34 | M27                    | UC316D1        |
| 85                      | UCFG317D1                 | 260                | 204 | 44             | 27             | 74  | 31 | 100            | 96  | 40 | M27                    | UC317D1        |
| 90                      | UCFG318D1                 | 280                | 216 | 44             | 30             | 76  | 35 | 100            | 96  | 40 | M30                    | UC318D1        |
| 95                      | UCFG319D1                 | 290                | 228 | 59             | 30             | 94  | 35 | 121            | 103 | 41 | M30                    | UC319D1        |
| 100                     | UCFG320D1                 | 310                | 242 | 59             | 32             | 94  | 38 | 125            | 108 | 42 | M33                    | UC320D1        |
| 105                     | UCFG321D1                 | 310                | 242 | 59             | 32             | 94  | 38 | 127            | 112 | 44 | M33                    | UC321D1        |
| 110                     | UCFG322D1                 | 340                | 266 | 60             | 35             | 96  | 41 | 131            | 117 | 46 | M36                    | UC322D1        |
| 120                     | UCFG324D1                 | 370                | 290 | 65             | 40             | 110 | 41 | 140            | 126 | 51 | M36                    | UC324D1        |
| 130                     | UCFG326D1                 | 410                | 320 | 65             | 45             | 115 | 41 | 146            | 135 | 54 | M36                    | UC326D1        |
| 140                     | UCFG328D1                 | 450                | 350 | 75             | 55             | 125 | 41 | 161            | 145 | 59 | M36                    | UC328D1        |

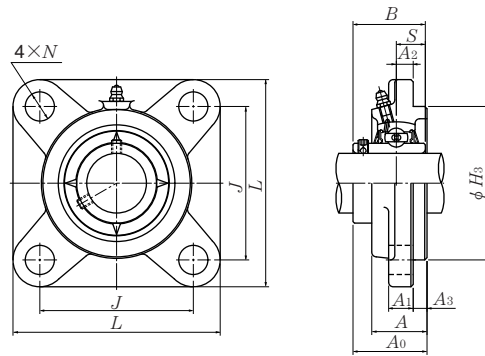
Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: 1) Please refer to page 36 for size of grease fitting.

2) Please refer to page 420-425 for inch series bearings.

| Housing <sup>1)</sup><br>number | Mass<br>(approx.)<br><br>kg |
|---------------------------------|-----------------------------|
| FG305D1                         | 1.6                         |
| FG306D1                         | 2.0                         |
| FG307D1                         | 2.8                         |
| FG308D1                         | 3.6                         |
| FG309D1                         | 5.0                         |
| FG310D1                         | 6.9                         |
| FG311D1                         | 8.8                         |
| FG312D1                         | 11                          |
| FG313D1                         | 12                          |
| FG314D1                         | 14                          |
| FG315D1                         | 18                          |
| FG316D1                         | 21                          |
| FG317D1                         | 23                          |
| FG318D1                         | 26                          |
| FG319D1                         | 33                          |
| FG320D1                         | 40                          |
| FG321D1                         | 41                          |
| FG322D1                         | 52                          |
| FG324D1                         | 64                          |
| FG326D1                         | 76                          |
| FG328D1                         | 98                          |

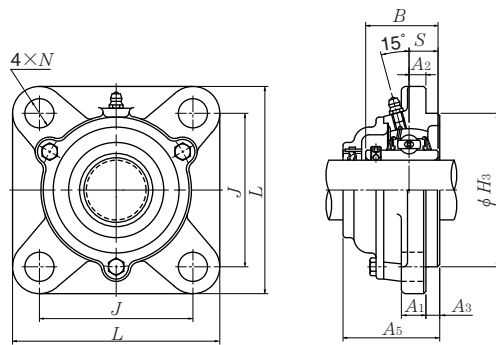
**Square flanged units cast housing w/ spigot joint**  
**Set screw type**



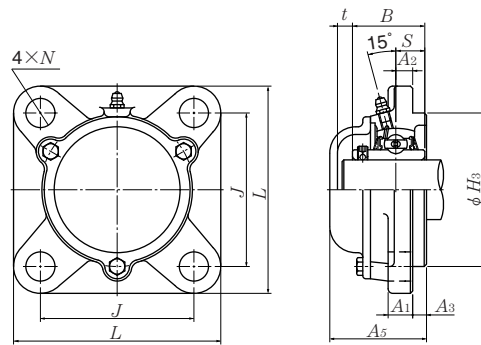
| Shaft<br>dia.                                                                       | Unit number <sup>1)</sup>                                                                                        | Nominal dimensions |                  |                       |                 |                       |                       |                  |                       |                       |           |           | Bolt<br>size  |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------|------------------|-----------------------|-----------------|-----------------------|-----------------------|------------------|-----------------------|-----------------------|-----------|-----------|---------------|
|                                                                                     |                                                                                                                  |                    |                  |                       |                 |                       | mm                    |                  | inch                  |                       |           |           |               |
|                                                                                     |                                                                                                                  | <i>L</i>           | <i>J</i>         | <i>A</i> <sub>2</sub> | <i>N</i>        | <i>A</i> <sub>3</sub> | <i>A</i> <sub>1</sub> | <i>A</i>         | <i>H</i> <sub>3</sub> | <i>A</i> <sub>0</sub> | <i>B</i>  | <i>S</i>  | mm<br>inch    |
| <b>25</b><br>$1\frac{3}{16}$<br>$\frac{7}{8}$<br>$1\frac{5}{16}$<br><b>1</b>        | <b>UCFS305D1</b><br><b>UCFS305-013D1</b><br><b>UCFS305-014D1</b><br><b>UCFS305-015D1</b><br><b>UCFS305-100D1</b> | <b>110</b>         | <b>80</b>        | <b>9</b>              | <b>16</b>       | <b>7</b>              | <b>13</b>             | <b>29</b>        | <b>80</b>             | <b>39</b>             | <b>38</b> | <b>15</b> | <b>M14</b>    |
|                                                                                     |                                                                                                                  | $4\frac{11}{32}$   | $3\frac{5}{32}$  | $\frac{23}{64}$       | $\frac{5}{8}$   | $\frac{9}{32}$        | $\frac{1}{2}$         | $1\frac{9}{64}$  | 3.1496                | $1\frac{17}{32}$      | 1.4961    | 0.591     | $\frac{1}{2}$ |
| <b>30</b><br>$1\frac{1}{16}$<br>$1\frac{1}{8}$<br>$1\frac{3}{16}$                   | <b>UCFS306D1</b><br><b>UCFS306-101D1</b><br><b>UCFS306-102D1</b><br><b>UCFS306-103D1</b>                         | <b>125</b>         | <b>95</b>        | <b>10</b>             | <b>16</b>       | <b>8</b>              | <b>15</b>             | <b>32</b>        | <b>90</b>             | <b>44</b>             | <b>43</b> | <b>17</b> | <b>M14</b>    |
|                                                                                     |                                                                                                                  | $4\frac{29}{32}$   | $3\frac{47}{64}$ | $\frac{25}{64}$       | $\frac{5}{8}$   | $\frac{5}{16}$        | $\frac{19}{32}$       | $1\frac{17}{64}$ | 3.5433                | $1\frac{47}{64}$      | 1.6929    | 0.669     | $\frac{1}{2}$ |
| <b>35</b><br>$1\frac{1}{4}$<br>$1\frac{5}{16}$<br>$1\frac{3}{8}$<br>$1\frac{7}{16}$ | <b>UCFS307D1</b><br><b>UCFS307-104D1</b><br><b>UCFS307-105D1</b><br><b>UCFS307-106D1</b><br><b>UCFS307-107D1</b> | <b>135</b>         | <b>100</b>       | <b>11</b>             | <b>19</b>       | <b>9</b>              | <b>16</b>             | <b>36</b>        | <b>100</b>            | <b>49</b>             | <b>48</b> | <b>19</b> | <b>M16</b>    |
|                                                                                     |                                                                                                                  | $5\frac{5}{16}$    | $3\frac{15}{16}$ | $\frac{7}{16}$        | $\frac{3}{4}$   | $\frac{23}{64}$       | $\frac{5}{8}$         | $1\frac{13}{32}$ | 3.9370                | $1\frac{59}{64}$      | 1.8898    | 0.748     | $\frac{5}{8}$ |
| <b>40</b><br>$1\frac{1}{2}$<br>$1\frac{9}{16}$                                      | <b>UCFS308D1</b><br><b>UCFS308-108D1</b><br><b>UCFS308-109D1</b>                                                 | <b>150</b>         | <b>112</b>       | <b>13</b>             | <b>19</b>       | <b>10</b>             | <b>17</b>             | <b>40</b>        | <b>115</b>            | <b>56</b>             | <b>52</b> | <b>19</b> | <b>M16</b>    |
|                                                                                     |                                                                                                                  | $5\frac{29}{32}$   | $4\frac{13}{32}$ | $\frac{33}{64}$       | $\frac{3}{4}$   | $\frac{25}{64}$       | $\frac{21}{32}$       | $1\frac{9}{16}$  | 4.5276                | $2\frac{13}{64}$      | 2.0472    | 0.748     | $\frac{5}{8}$ |
| <b>45</b><br>$1\frac{5}{8}$<br>$1\frac{11}{16}$<br>$1\frac{3}{4}$                   | <b>UCFS309D1</b><br><b>UCFS309-110D1</b><br><b>UCFS309-111D1</b><br><b>UCFS309-112D1</b>                         | <b>160</b>         | <b>125</b>       | <b>14</b>             | <b>19</b>       | <b>11</b>             | <b>18</b>             | <b>44</b>        | <b>125</b>            | <b>60</b>             | <b>57</b> | <b>22</b> | <b>M16</b>    |
|                                                                                     |                                                                                                                  | $6\frac{5}{16}$    | $4\frac{59}{64}$ | $\frac{35}{64}$       | $\frac{3}{4}$   | $\frac{7}{16}$        | $\frac{23}{32}$       | $1\frac{47}{64}$ | 4.9213                | $2\frac{23}{64}$      | 2.2441    | 0.866     | $\frac{5}{8}$ |
| <b>50</b><br>$1\frac{13}{16}$<br>$1\frac{1}{8}$<br>$1\frac{15}{16}$                 | <b>UCFS310D1</b><br><b>UCFS310-113D1</b><br><b>UCFS310-114D1</b><br><b>UCFS310-115D1</b>                         | <b>175</b>         | <b>132</b>       | <b>16</b>             | <b>23</b>       | <b>12</b>             | <b>19</b>             | <b>48</b>        | <b>140</b>            | <b>67</b>             | <b>61</b> | <b>22</b> | <b>M20</b>    |
|                                                                                     |                                                                                                                  | $6\frac{7}{8}$     | $5\frac{13}{64}$ | $\frac{5}{8}$         | $\frac{29}{32}$ | $\frac{15}{32}$       | $\frac{3}{4}$         | $1\frac{57}{64}$ | 5.5118                | $2\frac{41}{64}$      | 2.4016    | 0.866     | $\frac{3}{4}$ |
| <b>55</b><br><b>2</b><br>$2\frac{1}{16}$<br>$2\frac{1}{8}$<br>$2\frac{3}{16}$       | <b>UCFS311D1</b><br><b>UCFS311-200D1</b><br><b>UCFS311-201D1</b><br><b>UCFS311-202D1</b><br><b>UCFS311-203D1</b> | <b>185</b>         | <b>140</b>       | <b>17</b>             | <b>23</b>       | <b>13</b>             | <b>20</b>             | <b>52</b>        | <b>150</b>            | <b>71</b>             | <b>66</b> | <b>25</b> | <b>M20</b>    |
|                                                                                     |                                                                                                                  | $7\frac{9}{32}$    | $5\frac{33}{64}$ | $\frac{43}{64}$       | $\frac{29}{32}$ | $\frac{33}{64}$       | $\frac{25}{32}$       | $2\frac{3}{64}$  | 5.9055                | $2\frac{51}{64}$      | 2.5984    | 0.984     | $\frac{3}{4}$ |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.



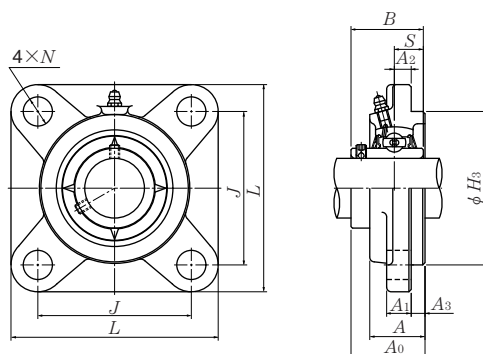
Cast dust cover type (Open end)  
C-UCFS...D1



Cast dust cover type (Close end)  
CM-UCFS...D1

| Bearing number | Housing number <sup>1)</sup> | Unit number <sup>1)</sup><br>cast dust cover type | Nominal dimensions              |                                 | Mass (approx.) |       |
|----------------|------------------------------|---------------------------------------------------|---------------------------------|---------------------------------|----------------|-------|
|                |                              |                                                   | mm                              | inch                            | kg             | lb    |
|                |                              |                                                   | t                               | A <sub>5</sub>                  | UCFS           | C(CM) |
| UC305D1        | FS305D1                      | C(CM)-UCFS305D1                                   | 12                              | 56                              | 1.2            | 1.4   |
| UC305-013D1    | FS305D1                      | C(CM)-UCFS305-013D1                               |                                 |                                 |                |       |
| UC305-014D1    | FS305D1                      | C(CM)-UCFS305-014D1                               | 15 <sup>1</sup> / <sub>32</sub> | 2 <sup>13</sup> / <sub>64</sub> | 2.7            | 3.1   |
| UC305-015D1    | FS305D1                      | C(CM)-UCFS305-015D1                               |                                 |                                 |                |       |
| UC305-100D1    | FS305D1                      | C(CM)-UCFS305-100D1                               |                                 |                                 |                |       |
| UC306D1        | FS306D1                      | C(CM)-UCFS306D1                                   | 11                              | 60                              | 1.8            | 2.2   |
| UC306-101D1    | FS306D1                      | C(CM)-UCFS306-101D1                               |                                 |                                 |                |       |
| UC306-102D1    | FS306D1                      | C(CM)-UCFS306-102D1                               | 7 <sup>1</sup> / <sub>16</sub>  | 2 <sup>23</sup> / <sub>64</sub> | 4.0            | 4.9   |
| UC306-103D1    | FS306D1                      | C(CM)-UCFS306-103D1                               |                                 |                                 |                |       |
| UC307D1        | FS307D1                      | C(CM)-UCFS307D1                                   | 13                              | 67                              | 2.3            | 2.8   |
| UC307-104D1    | FS307D1                      | C(CM)-UCFS307-104D1                               |                                 |                                 |                |       |
| UC307-105D1    | FS307D1                      | C(CM)-UCFS307-105D1                               | 33 <sup>3</sup> / <sub>64</sub> | 2 <sup>41</sup> / <sub>64</sub> | 5.1            | 6.2   |
| UC307-106D1    | FS307D1                      | C(CM)-UCFS307-106D1                               |                                 |                                 |                |       |
| UC307-107D1    | FS307D1                      | C(CM)-UCFS307-107D1                               |                                 |                                 |                |       |
| UC308D1        | FS308D1                      | C(CM)-UCFS308D1                                   | 14                              | 76                              | 3.1            | 3.6   |
| UC308-108D1    | FS308D1                      | C(CM)-UCFS308-108D1                               | 35 <sup>5</sup> / <sub>64</sub> | 2 <sup>63</sup> / <sub>64</sub> | 6.8            | 7.9   |
| UC308-109D1    | FS308D1                      | C(CM)-UCFS308-109D1                               |                                 |                                 |                |       |
| UC309D1        | FS309D1                      | C(CM)-UCFS309D1                                   | 14                              | 80                              | 3.8            | 4.7   |
| UC309-110D1    | FS309D1                      | C(CM)-UCFS309-110D1                               |                                 |                                 |                |       |
| UC309-111D1    | FS309D1                      | C(CM)-UCFS309-111D1                               | 35 <sup>5</sup> / <sub>64</sub> | 3 <sup>5</sup> / <sub>32</sub>  | 8.4            | 10    |
| UC309-112D1    | FS309D1                      | C(CM)-UCFS309-112D1                               |                                 |                                 |                |       |
| UC310D1        | FS310D1                      | C(CM)-UCFS310D1                                   | 15                              | 88                              | 5.0            | 6.2   |
| UC310-113D1    | FS310D1                      | C(CM)-UCFS310-113D1                               |                                 |                                 |                |       |
| UC310-114D1    | FS310D1                      | C(CM)-UCFS310-114D1                               | 19 <sup>1</sup> / <sub>32</sub> | 3 <sup>15</sup> / <sub>32</sub> | 11             | 14    |
| UC310-115D1    | FS310D1                      | C(CM)-UCFS310-115D1                               |                                 |                                 |                |       |
| UC311D1        | FS311D1                      | C(CM)-UCFS311D1                                   | 16                              | 93                              | 5.9            | 7.2   |
| UC311-200D1    | FS311D1                      | C(CM)-UCFS311-200D1                               |                                 |                                 |                |       |
| UC311-201D1    | FS311D1                      | C(CM)-UCFS311-201D1                               |                                 |                                 |                |       |
| UC311-202D1    | FS311D1                      | C(CM)-UCFS311-202D1                               | 5 <sup>1</sup> / <sub>8</sub>   | 3 <sup>21</sup> / <sub>32</sub> | 13             | 16    |
| UC311-203D1    | FS311D1                      | C(CM)-UCFS311-203D1                               |                                 |                                 |                |       |

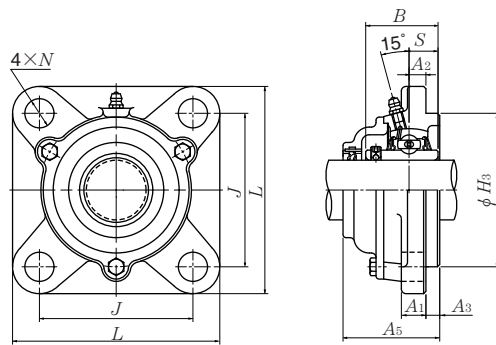
**Square flanged units cast housing w/ spigot joint**  
**Set screw type**



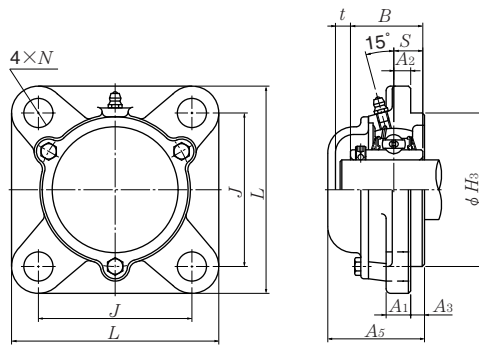
| Shaft<br>dia.                                                                                                         | Unit number <sup>1)</sup>                                                                                        | Nominal dimensions |          |                       |          |                       |                       |          |                       |                       |          |          | Bolt<br>size  |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------|----------|-----------------------|----------|-----------------------|-----------------------|----------|-----------------------|-----------------------|----------|----------|---------------|
|                                                                                                                       |                                                                                                                  |                    |          |                       |          |                       | mm                    |          | inch                  |                       |          |          |               |
|                                                                                                                       |                                                                                                                  | <i>L</i>           | <i>J</i> | <i>A</i> <sub>2</sub> | <i>N</i> | <i>A</i> <sub>3</sub> | <i>A</i> <sub>1</sub> | <i>A</i> | <i>H</i> <sub>3</sub> | <i>A</i> <sub>0</sub> | <i>B</i> | <i>S</i> | mm<br>inch    |
| <b>60</b><br>2¼<br>2 <sup>5</sup> / <sub>16</sub><br>2¾<br>2 <sup>7</sup> / <sub>16</sub>                             | <b>UCFS312D1</b><br><b>UCFS312-204D1</b><br><b>UCFS312-205D1</b><br><b>UCFS312-206D1</b><br><b>UCFS312-207D1</b> | 195                | 150      | 19                    | 23       | 14                    | 22                    | 56       | 160                   | 78                    | 71       | 26       | M20<br><br>¾  |
| <b>65</b><br>2½<br>2 <sup>9</sup> / <sub>16</sub>                                                                     | <b>UCFS313D1</b><br><b>UCFS313-208D1</b><br><b>UCFS313-209D1</b>                                                 | 208                | 166      | 15                    | 23       | 18                    | 22                    | 58       | 175                   | 78                    | 75       | 30       | M20<br><br>¾  |
| <b>70</b><br>2 <sup>5</sup> / <sub>8</sub><br>2 <sup>11</sup> / <sub>16</sub><br>2¾                                   | <b>UCFS314D1</b><br><b>UCFS314-210D1</b><br><b>UCFS314-211D1</b><br><b>UCFS314-212D1</b>                         | 226                | 178      | 18                    | 25       | 18                    | 25                    | 61       | 185                   | 81                    | 78       | 33       | M22<br><br>⅞  |
| <b>75</b><br>2 <sup>13</sup> / <sub>16</sub><br>2 <sup>7</sup> / <sub>8</sub><br>2 <sup>15</sup> / <sub>16</sub><br>3 | <b>UCFS315D1</b><br><b>UCFS315-213D1</b><br><b>UCFS315-214D1</b><br><b>UCFS315-215D1</b><br><b>UCFS315-300D1</b> | 236                | 184      | 21                    | 25       | 18                    | 25                    | 66       | 200                   | 89                    | 82       | 32       | M22<br><br>⅞  |
| <b>80</b><br>3 <sup>1</sup> / <sub>16</sub><br>3⅛<br>3 <sup>3</sup> / <sub>16</sub>                                   | <b>UCFS316D1</b><br><b>UCFS316-301D1</b><br><b>UCFS316-302D1</b><br><b>UCFS316-303D1</b>                         | 250                | 196      | 18                    | 31       | 20                    | 27                    | 68       | 210                   | 90                    | 86       | 34       | M27<br><br>1  |
| <b>85</b><br>3¼<br>3 <sup>5</sup> / <sub>16</sub><br>3 <sup>7</sup> / <sub>16</sub>                                   | <b>UCFS317D1</b><br><b>UCFS317-304D1</b><br><b>UCFS317-305D1</b><br><b>UCFS317-307D1</b>                         | 260                | 204      | 24                    | 31       | 20                    | 27                    | 74       | 220                   | 100                   | 96       | 40       | M27<br><br>1  |
| <b>90</b><br>3 <sup>7</sup> / <sub>16</sub><br>3½                                                                     | <b>UCFS318D1</b><br><b>UCFS318-307D1</b><br><b>UCFS318-308D1</b>                                                 | 280                | 216      | 24                    | 35       | 20                    | 30                    | 76       | 240                   | 100                   | 96       | 40       | M30<br><br>1⅛ |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.



Cast dust cover type (Open end)  
C-UCFS...D1

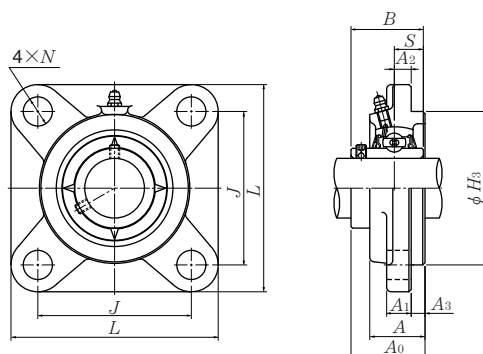


Cast dust cover type (Close end)  
CM-UCFS...D1

| Bearing number | Housing number <sup>1)</sup> | Unit number <sup>1)</sup><br>cast dust cover type | Nominal dimensions |                | Mass (approx.) |       |
|----------------|------------------------------|---------------------------------------------------|--------------------|----------------|----------------|-------|
|                |                              |                                                   | mm                 | inch           | kg             | lb    |
|                |                              |                                                   | t                  | A <sub>5</sub> | UCFS           | C(CM) |
| UC312D1        | FS312D1                      | C(CM)-UCFS312D1                                   | 16                 | 100            | 7.0            | 8.4   |
| UC312-204D1    | FS312D1                      | C(CM)-UCFS312-204D1                               |                    |                |                |       |
| UC312-205D1    | FS312D1                      | C(CM)-UCFS312-205D1                               | 5/8                | 3 15/16        | 15             | 19    |
| UC312-206D1    | FS312D1                      | C(CM)-UCFS312-206D1                               |                    |                |                |       |
| UC312-207D1    | FS312D1                      | C(CM)-UCFS312-207D1                               |                    |                |                |       |
| UC313D1        | FS313D1                      | C(CM)-UCFS313D1                                   | 19                 | 103            | 8.6            | 10    |
| UC313-208D1    | FS313D1                      | C(CM)-UCFS313-208D1                               | 3/4                | 4 1/16         | 19             | 22    |
| UC313-209D1    | FS313D1                      | C(CM)-UCFS313-209D1                               |                    |                |                |       |
| UC314D1        | FS314D1                      | C(CM)-UCFS314D1                                   | 19                 | 106            | 10             | 12    |
| UC314-210D1    | FS314D1                      | C(CM)-UCFS314-210D1                               |                    |                |                |       |
| UC314-211D1    | FS314D1                      | C(CM)-UCFS314-211D1                               | 3/4                | 4 11/64        | 22             | 26    |
| UC314-212D1    | FS314D1                      | C(CM)-UCFS314-212D1                               |                    |                |                |       |
| UC315D1        | FS315D1                      | C(CM)-UCFS315D1                                   | 19                 | 114            | 12             | 14    |
| UC315-213D1    | FS315D1                      | C(CM)-UCFS315-213D1                               |                    |                |                |       |
| UC315-214D1    | FS315D1                      | C(CM)-UCFS315-214D1                               | 3/4                | 4 31/64        | 26             | 31    |
| UC315-215D1    | FS315D1                      | C(CM)-UCFS315-215D1                               |                    |                |                |       |
| UC315-300D1    | FS315D1                      | C(CM)-UCFS315-300D1                               |                    |                |                |       |
| UC316D1        | FS316D1                      | C(CM)-UCFS316D1                                   | 19                 | 116            | 14             | 17    |
| UC316-301D1    | FS316D1                      | C(CM)-UCFS316-301D1                               |                    |                |                |       |
| UC316-302D1    | FS316D1                      | C(CM)-UCFS316-302D1                               | 3/4                | 4 9/16         | 31             | 37    |
| UC316-303D1    | FS316D1                      | C(CM)-UCFS316-303D1                               |                    |                |                |       |
| UC317D1        | FS317D1                      | C(CM)-UCFS317D1                                   | 21                 | 129            | 17             | 20    |
| UC317-304D1    | FS317D1                      | C(CM)-UCFS317-304D1                               |                    |                |                |       |
| UC317-305D1    | FS317D1                      | C(CM)-UCFS317-305D1                               | 1 3/16             | 5 5/64         | 37             | 44    |
| UC317-307D1    | FS317D1                      | C(CM)-UCFS317-307D1                               |                    |                |                |       |
| UC318D1        | FS318D1                      | C(CM)-UCFS318D1                                   | 21                 | 129            | 20             | 24    |
| UC318-307D1    | FS318D1                      | C(CM)-UCFS318-307D1                               | 1 3/16             | 5 5/64         | 44             | 53    |
| UC318-308D1    | FS318D1                      | C(CM)-UCFS318-308D1                               |                    |                |                |       |



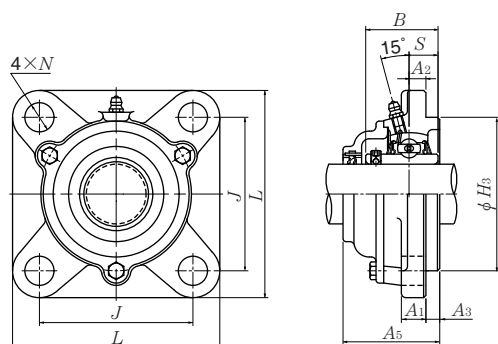
**Square flanged units cast housing w/ spigot joint**  
**Set screw type**



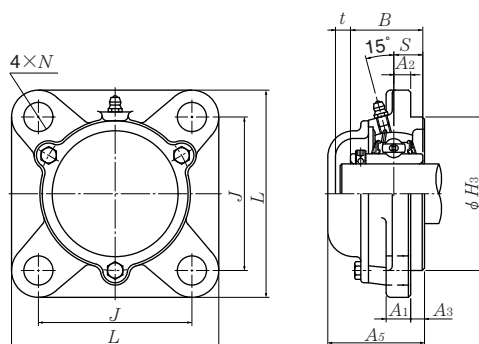
| Shaft<br>dia.                                                                                                                             | Unit number <sup>1)</sup>                                                                                        | Nominal dimensions               |                                 |                                 |                               |                               |                                |                                 |                       |                                 |          |          |                               | Bolt<br>size |
|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------|---------------------------------|-------------------------------|-------------------------------|--------------------------------|---------------------------------|-----------------------|---------------------------------|----------|----------|-------------------------------|--------------|
|                                                                                                                                           |                                                                                                                  | mm                               |                                 |                                 |                               |                               |                                | inch                            |                       |                                 |          |          |                               |              |
|                                                                                                                                           |                                                                                                                  | <i>L</i>                         | <i>J</i>                        | <i>A</i> <sub>2</sub>           | <i>N</i>                      | <i>A</i> <sub>3</sub>         | <i>A</i> <sub>1</sub>          | <i>A</i>                        | <i>H</i> <sub>3</sub> | <i>A</i> <sub>0</sub>           | <i>B</i> | <i>S</i> | mm<br>inch                    |              |
| <b>95</b><br><b>3<sup>5</sup>/<sub>8</sub></b><br><b>3<sup>11</sup>/<sub>16</sub></b><br><b>3<sup>3</sup>/<sub>4</sub></b>                | <b>UCFS319D1</b><br><b>UCFS319-310D1</b><br><b>UCFS319-311D1</b><br><b>UCFS319-312D1</b>                         | 290                              | 228                             | 39                              | 35                            | 20                            | 30                             | 94                              | 250                   | 121                             | 103      | 41       | M30                           |              |
|                                                                                                                                           |                                                                                                                  | 11 <sup>13</sup> / <sub>32</sub> | 8 <sup>31</sup> / <sub>32</sub> | 1 <sup>17</sup> / <sub>32</sub> | 1 <sup>3</sup> / <sub>8</sub> | <sup>25</sup> / <sub>32</sub> | 1 <sup>3</sup> / <sub>16</sub> | 3 <sup>45</sup> / <sub>64</sub> | 9.8425                | 4 <sup>49</sup> / <sub>64</sub> | 4.0551   | 1.614    | 1 <sup>1</sup> / <sub>8</sub> |              |
| <b>100</b><br><b>3<sup>13</sup>/<sub>16</sub></b><br><b>3<sup>7</sup>/<sub>8</sub></b><br><b>3<sup>15</sup>/<sub>16</sub></b><br><b>4</b> | <b>UCFS320D1</b><br><b>UCFS320-313D1</b><br><b>UCFS320-314D1</b><br><b>UCFS320-315D1</b><br><b>UCFS320-400D1</b> | 310                              | 242                             | 39                              | 38                            | 20                            | 32                             | 94                              | 260                   | 125                             | 108      | 42       | M33                           |              |
|                                                                                                                                           |                                                                                                                  | 12 <sup>7</sup> / <sub>32</sub>  | 9 <sup>17</sup> / <sub>32</sub> | 1 <sup>17</sup> / <sub>32</sub> | 1 <sup>1</sup> / <sub>2</sub> | <sup>25</sup> / <sub>32</sub> | 1 <sup>1</sup> / <sub>4</sub>  | 3 <sup>45</sup> / <sub>64</sub> | 10.2362               | 4 <sup>59</sup> / <sub>64</sub> | 4.2520   | 1.654    | 1 <sup>1</sup> / <sub>4</sub> |              |
| <b>105</b>                                                                                                                                | <b>UCFS321D1</b>                                                                                                 | 310                              | 242                             | 39                              | 38                            | 20                            | 32                             | 94                              | 260                   | 127                             | 112      | 44       | M33                           |              |
| <b>110</b>                                                                                                                                | <b>UCFS322D1</b>                                                                                                 | 340                              | 266                             | 35                              | 41                            | 25                            | 35                             | 96                              | 300                   | 131                             | 117      | 46       | M36                           |              |
| <b>120</b>                                                                                                                                | <b>UCFS324D1</b>                                                                                                 | 370                              | 290                             | 35                              | 41                            | 30                            | 40                             | 110                             | 330                   | 140                             | 126      | 51       | M36                           |              |
| <b>130</b>                                                                                                                                | <b>UCFS326D1</b>                                                                                                 | 410                              | 320                             | 35                              | 41                            | 30                            | 45                             | 115                             | 360                   | 146                             | 135      | 54       | M36                           |              |
| <b>140</b>                                                                                                                                | <b>UCFS328D1</b>                                                                                                 | 450                              | 350                             | 45                              | 41                            | 30                            | 55                             | 125                             | 400                   | 161                             | 145      | 59       | M36                           |              |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.



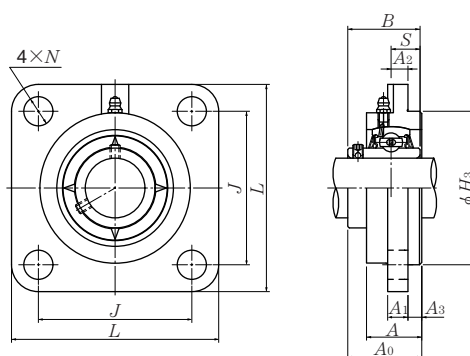
Cast dust cover type (Open end)  
C-UCFS...D1



Cast dust cover type (Close end)  
CM-UCFS...D1

| Bearing number | Housing number <sup>1)</sup> | Unit number <sup>1)</sup><br>cast dust cover type | Nominal dimensions |                | Mass (approx.) |       |
|----------------|------------------------------|---------------------------------------------------|--------------------|----------------|----------------|-------|
|                |                              |                                                   | mm                 | inch           | kg             | lb    |
|                |                              |                                                   | t                  | A <sub>5</sub> | UCFS           | C(CM) |
| UC319D1        | FS319D1                      | C(CM)-UCFS319D1                                   | 20                 | 149            | 24             | 28    |
| UC319-310D1    | FS319D1                      | C(CM)-UCFS319-310D1                               |                    |                |                |       |
| UC319-311D1    | FS319D1                      | C(CM)-UCFS319-311D1                               | 25/32              | 5 55/64        | 53             | 62    |
| UC319-312D1    | FS319D1                      | C(CM)-UCFS319-312D1                               |                    |                |                |       |
| UC320D1        | FS320D1                      | C(CM)-UCFS320D1                                   | 20                 | 154            | 29             | 34    |
| UC320-313D1    | FS320D1                      | C(CM)-UCFS320-313D1                               |                    |                |                |       |
| UC320-314D1    | FS320D1                      | C(CM)-UCFS320-314D1                               | 25/32              | 6 1/16         | 64             | 75    |
| UC320-315D1    | FS320D1                      | C(CM)-UCFS320-315D1                               |                    |                |                |       |
| UC320-400D1    | FS320D1                      | C(CM)-UCFS320-400D1                               |                    |                |                |       |
| UC321D1        | FS321D1                      | C(CM)-UCFS321D1                                   | 20                 | 156            | 28             | 33    |
| UC322D1        | FS322D1                      | C(CM)-UCFS322D1                                   | 20                 | 160            | 38             | 45    |
| UC324D1        | FS324D1                      | C(CM)-UCFS324D1                                   | 22                 | 172            | 52             | 59    |
| UC326D1        | FS326D1                      | C(CM)-UCFS326D1                                   | 22                 | 178            | 69             | 77    |
| UC328D1        | FS328D1                      | C(CM)-UCFS328D1                                   | 21                 | 192            | 98             | 109   |

**Square flanged units w/ spigot joint (Steel series)**  
**Set screw type**



| Shaft<br>dia.<br><br>mm | Unit number <sup>1)</sup> | Nominal dimensions |     |                |    |                |                |     |                |                |     |    | Bolt<br>size<br><br>mm | Bearing number |
|-------------------------|---------------------------|--------------------|-----|----------------|----|----------------|----------------|-----|----------------|----------------|-----|----|------------------------|----------------|
|                         |                           | L                  | J   | A <sub>2</sub> | N  | A <sub>3</sub> | A <sub>1</sub> | A   | H <sub>3</sub> | A <sub>0</sub> | B   | S  |                        |                |
| 25                      | UCFSG305D1                | 110                | 80  | 9              | 16 | 7              | 13             | 29  | 80             | 39             | 38  | 15 | M14                    | UC305D1        |
| 30                      | UCFSG306D1                | 125                | 95  | 10             | 16 | 8              | 15             | 32  | 90             | 44             | 43  | 17 | M14                    | UC306D1        |
| 35                      | UCFSG307D1                | 135                | 100 | 11             | 19 | 9              | 16             | 36  | 100            | 49             | 48  | 19 | M16                    | UC307D1        |
| 40                      | UCFSG308D1                | 150                | 112 | 13             | 19 | 10             | 17             | 40  | 115            | 56             | 52  | 19 | M16                    | UC308D1        |
| 45                      | UCFSG309D1                | 160                | 125 | 14             | 19 | 11             | 18             | 44  | 125            | 60             | 57  | 22 | M16                    | UC309D1        |
| 50                      | UCFSG310D1                | 175                | 132 | 16             | 23 | 12             | 19             | 48  | 140            | 67             | 61  | 22 | M20                    | UC310D1        |
| 55                      | UCFSG311D1                | 185                | 140 | 17             | 23 | 13             | 20             | 52  | 150            | 71             | 66  | 25 | M20                    | UC311D1        |
| 60                      | UCFSG312D1                | 195                | 150 | 19             | 23 | 14             | 22             | 56  | 160            | 78             | 71  | 26 | M20                    | UC312D1        |
| 65                      | UCFSG313D1                | 208                | 166 | 15             | 23 | 18             | 22             | 58  | 175            | 78             | 75  | 30 | M20                    | UC313D1        |
| 70                      | UCFSG314D1                | 226                | 178 | 18             | 25 | 18             | 25             | 61  | 185            | 81             | 78  | 33 | M22                    | UC314D1        |
| 75                      | UCFSG315D1                | 236                | 184 | 21             | 25 | 18             | 25             | 66  | 200            | 89             | 82  | 32 | M22                    | UC315D1        |
| 80                      | UCFSG316D1                | 250                | 196 | 18             | 31 | 20             | 27             | 68  | 210            | 90             | 86  | 34 | M27                    | UC316D1        |
| 85                      | UCFSG317D1                | 260                | 204 | 24             | 31 | 20             | 27             | 74  | 220            | 100            | 96  | 40 | M27                    | UC317D1        |
| 90                      | UCFSG318D1                | 280                | 216 | 24             | 35 | 20             | 30             | 76  | 240            | 100            | 96  | 40 | M30                    | UC318D1        |
| 95                      | UCFSG319D1                | 290                | 228 | 39             | 35 | 20             | 30             | 94  | 250            | 121            | 103 | 41 | M30                    | UC319D1        |
| 100                     | UCFSG320D1                | 310                | 242 | 39             | 38 | 20             | 32             | 94  | 260            | 125            | 108 | 42 | M33                    | UC320D1        |
| 105                     | UCFSG321D1                | 310                | 242 | 39             | 38 | 20             | 32             | 94  | 260            | 127            | 112 | 44 | M33                    | UC321D1        |
| 110                     | UCFSG322D1                | 340                | 266 | 35             | 41 | 25             | 35             | 96  | 300            | 131            | 117 | 46 | M36                    | UC322D1        |
| 120                     | UCFSG324D1                | 370                | 290 | 35             | 41 | 30             | 40             | 110 | 330            | 140            | 126 | 51 | M36                    | UC324D1        |
| 130                     | UCFSG326D1                | 410                | 320 | 35             | 41 | 30             | 45             | 115 | 360            | 146            | 135 | 54 | M36                    | UC326D1        |
| 140                     | UCFSG328D1                | 450                | 350 | 45             | 41 | 30             | 55             | 125 | 400            | 161            | 145 | 59 | M36                    | UC328D1        |

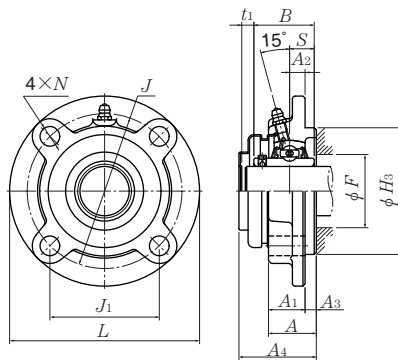
Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: 1) Please refer to page 36 for size of grease fitting.

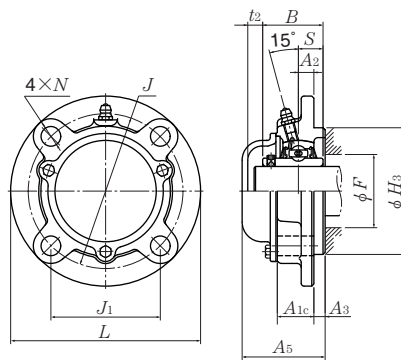
2) Please refer to page 416-420 for inch series bearings.

| Housing <sup>1)</sup><br>number | Mass<br>(approx.)<br><br>kg |
|---------------------------------|-----------------------------|
| FSG305D1                        | 1.9                         |
| FSG306D1                        | 2.1                         |
| FSG307D1                        | 2.6                         |
| FSG308D1                        | 3.6                         |
| FSG309D1                        | 4.5                         |
| FSG310D1                        | 5.8                         |
| FSG311D1                        | 6.9                         |
| FSG312D1                        | 8.3                         |
| FSG313D1                        | 10                          |
| FSG314D1                        | 13                          |
| FSG315D1                        | 15                          |
| FSG316D1                        | 17                          |
| FSG317D1                        | 20                          |
| FSG318D1                        | 24                          |
| FSG319D1                        | 29                          |
| FSG320D1                        | 35                          |
| FSG321D1                        | 33                          |
| FSG322D1                        | 45                          |
| FSG324D1                        | 61                          |
| FSG326D1                        | 80                          |
| FSG328D1                        | 113                         |





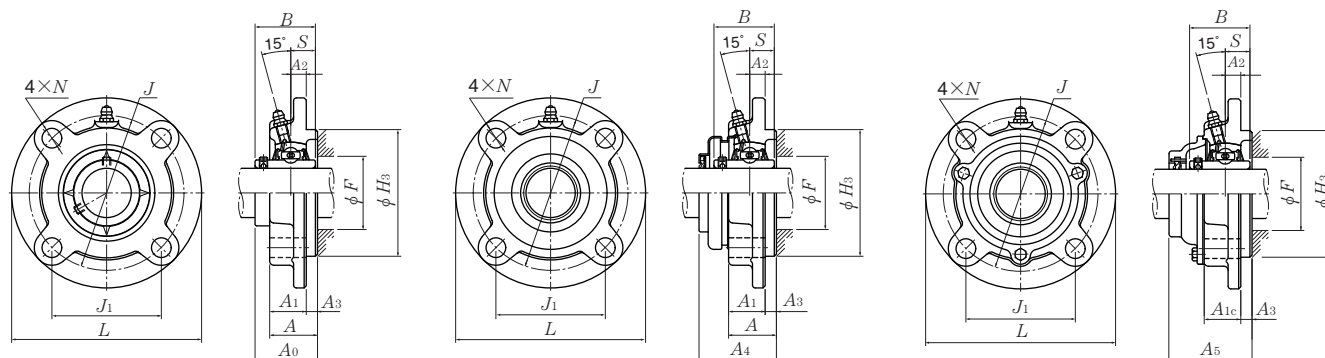
Press steel dust cover type (Close end)  
SM-UCFC...D1



Cast dust cover type (Close end)  
CM-UCFC...D1

| Bearing number | Housing number <sup>1)</sup> | Unit number pressed <sup>1)</sup><br>steel dust cover type | Unit number <sup>1)</sup><br>cast dust cover type | Nominal dimensions |                |                |                | Mass (approx.) |       |       |
|----------------|------------------------------|------------------------------------------------------------|---------------------------------------------------|--------------------|----------------|----------------|----------------|----------------|-------|-------|
|                |                              |                                                            |                                                   | mm                 |                | inch           |                | kg             |       | lb    |
|                |                              |                                                            |                                                   | t <sub>1</sub>     | t <sub>2</sub> | A <sub>4</sub> | A <sub>5</sub> | UCFC           | S(SM) | C(CM) |
| UC201D1        | FC204D1                      | S(SM)-UCFC201D1                                            | C(CM)-UCFC201D1                                   | 5                  | 8              | 40.5           | 46             | 0.8            | 0.8   | 0.9   |
| UC201-008D1    | FC204D1                      | S(SM)-UCFC201-008D1                                        | S(SM)-UCFC201-008D1                               | 13/64              | 5/16           | 1 19/32        | 1 13/16        | 1.8            | 1.8   | 2.0   |
| UC202D1        | FC204D1                      | S(SM)-UCFC202D1                                            | C(CM)-UCFC202D1                                   | 5                  | 8              | 40.5           | 46             | 0.8            | 0.8   | 0.9   |
| UC202-009D1    | FC204D1                      | S(SM)-UCFC202-009D1                                        | C(CM)-UCFC202-009D1                               | 13/64              | 5/16           | 1 19/32        | 1 13/16        | 1.8            | 1.8   | 2.0   |
| UC202-010D1    | FC204D1                      | S(SM)-UCFC202-010D1                                        | C(CM)-UCFC202-010D1                               |                    |                |                |                |                |       |       |
| UC203D1        | FC204D1                      | S(SM)-UCFC203D1                                            | C(CM)-UCFC203D1                                   | 5                  | 8              | 40.5           | 46             | 0.8            | 0.8   | 0.9   |
| UC203-011D1    | FC204D1                      | S(SM)-UCFC203-011D1                                        | C(CM)-UCFC203-011D1                               | 13/64              | 5/16           | 1 19/32        | 1 13/16        | 1.8            | 1.8   | 2.0   |
| UC204D1        | FC204D1                      | S(SM)-UCFC204D1                                            | C(CM)-UCFC204D1                                   | 5                  | 8              | 40.5           | 46             | 0.7            | 0.7   | 0.9   |
| UC204-012D1    | FC204D1                      | S(SM)-UCFC204-012D1                                        | C(CM)-UCFC204-012D1                               | 13/64              | 5/16           | 1 19/32        | 1 13/16        | 1.5            | 1.5   | 2.0   |
| UC205D1        | FC205D1                      | S(SM)-UCFC205D1                                            | C(CM)-UCFC205D1                                   | 7                  | 11             | 44.5           | 51             | 1.0            | 1.0   | 1.2   |
| UC205-013D1    | FC205D1                      | S(SM)-UCFC205-013D1                                        | C(CM)-UCFC205-013D1                               |                    |                |                |                |                |       |       |
| UC205-014D1    | FC205D1                      | S(SM)-UCFC205-014D1                                        | C(CM)-UCFC205-014D1                               | 9/32               | 7/16           | 1 3/4          | 2              | 2.2            | 2.2   | 2.7   |
| UC205-015D1    | FC205D1                      | S(SM)-UCFC205-015D1                                        | C(CM)-UCFC205-015D1                               |                    |                |                |                |                |       |       |
| UC205-100D1    | FC205D1                      | S(SM)-UCFC205-100D1                                        | C(CM)-UCFC205-100D1                               |                    |                |                |                |                |       |       |
| UC206D1        | FC206D1                      | S(SM)-UCFC206D1                                            | C(CM)-UCFC206D1                                   | 7                  | 11             | 49             | 56             | 1.3            | 1.4   | 1.6   |
| UC206-101D1    | FC206D1                      | S(SM)-UCFC206-101D1                                        | C(CM)-UCFC206-101D1                               |                    |                |                |                |                |       |       |
| UC206-102D1    | FC206D1                      | S(SM)-UCFC206-102D1                                        | C(CM)-UCFC206-102D1                               | 9/32               | 7/16           | 1 59/64        | 2 13/64        | 2.9            | 3.1   | 3.5   |
| UC206-103D1    | FC206D1                      | S(SM)-UCFC206-103D1                                        | C(CM)-UCFC206-103D1                               |                    |                |                |                |                |       |       |
| UC206-104D1    | FC206D1                      | S(SM)-UCFC206-104D1                                        | C(CM)-UCFC206-104D1                               |                    |                |                |                |                |       |       |
| UC207D1        | FC207D1                      | S(SM)-UCFC207D1                                            | C(CM)-UCFC207D1                                   | 8                  | 10             | 55             | 59             | 1.6            | 1.7   | 1.9   |
| UC207-104D1    | FC207D1                      | S(SM)-UCFC207-104D1                                        | C(CM)-UCFC207-104D1                               |                    |                |                |                |                |       |       |
| UC207-105D1    | FC207D1                      | S(SM)-UCFC207-105D1                                        | C(CM)-UCFC207-105D1                               | 5/16               | 25/64          | 2 11/64        | 2 21/64        | 3.5            | 3.7   | 4.2   |
| UC207-106D1    | FC207D1                      | S(SM)-UCFC207-106D1                                        | C(CM)-UCFC207-106D1                               |                    |                |                |                |                |       |       |
| UC207-107D1    | FC207D1                      | S(SM)-UCFC207-107D1                                        | C(CM)-UCFC207-107D1                               |                    |                |                |                |                |       |       |
| UC208D1        | FC208D1                      | S(SM)-UCFC208D1                                            | C(CM)-UCFC208D1                                   | 8                  | 9              | 62             | 66             | 2.0            | 2.1   | 2.4   |
| UC208-108D1    | FC208D1                      | S(SM)-UCFC208-108D1                                        | C(CM)-UCFC208-108D1                               | 5/16               | 23/64          | 2 7/16         | 2 19/32        | 4.4            | 4.6   | 5.3   |
| UC208-109D1    | FC208D1                      | S(SM)-UCFC208-109D1                                        | C(CM)-UCFC208-109D1                               |                    |                |                |                |                |       |       |
| UC209D1        | FC209D1                      | S(SM)-UCFC209D1                                            | C(CM)-UCFC209D1                                   | 8                  | 12             | 63             | 70             | 2.7            | 2.7   | 3.2   |
| UC209-110D1    | FC209D1                      | S(SM)-UCFC209-110D1                                        | C(CM)-UCFC209-110D1                               |                    |                |                |                |                |       |       |
| UC209-111D1    | FC209D1                      | S(SM)-UCFC209-111D1                                        | C(CM)-UCFC209-111D1                               | 5/16               | 15/32          | 2 31/64        | 2 3/4          | 6.0            | 6.0   | 7.1   |
| UC209-112D1    | FC209D1                      | S(SM)-UCFC209-112D1                                        | C(CM)-UCFC209-112D1                               |                    |                |                |                |                |       |       |

# Round flanged units cast housing w/ spigot joint Set screw type



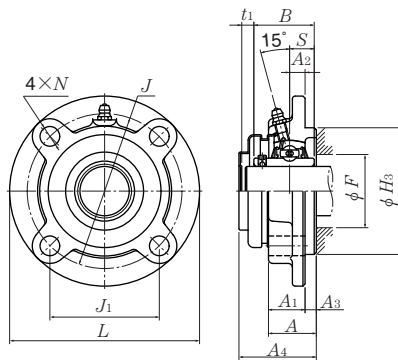
Press steel dust cover type (Open end)  
S-UCFC...D1

Cast dust cover type (Open end)  
C-UCFC...D1

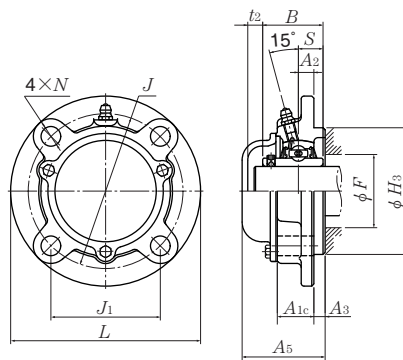
| Shaft<br>dia.                                                                                                                            | Unit number <sup>1)</sup>                                                     | Nominal dimensions                     |                                        |                                          |                                      |                                      |                                      |                                       |                                        |                                       |                       |                                         |                |               |                                        | Bolt<br>size                         |
|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------|----------------------------------------|------------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|----------------------------------------|---------------------------------------|-----------------------|-----------------------------------------|----------------|---------------|----------------------------------------|--------------------------------------|
|                                                                                                                                          |                                                                               | mm                                     |                                        |                                          |                                      |                                      |                                      |                                       | inch                                   |                                       |                       |                                         |                |               |                                        |                                      |
|                                                                                                                                          |                                                                               | <i>L</i>                               | <i>J</i>                               | <i>(J<sub>1</sub>)</i>                   | <i>A</i> <sub>2</sub>                | <i>N</i>                             | <i>A</i> <sub>3</sub>                | <i>A</i> <sub>1</sub>                 | <i>A</i> <sub>1c</sub>                 | <i>A</i>                              | <i>H</i> <sub>3</sub> | <i>A</i> <sub>0</sub>                   | <i>B</i>       | <i>S</i>      | <i>F</i> min                           |                                      |
| 50<br>1 <sup>13</sup> / <sub>16</sub><br>1 <sup>7</sup> / <sub>8</sub><br>1 <sup>15</sup> / <sub>16</sub><br>2                           | UCFC210D1<br>UCFC210-113D1<br>UCFC210-114D1<br>UCFC210-115D1<br>UCFC210-200D1 | 165<br>6 <sup>1</sup> / <sub>2</sub>   | 138<br>5 <sup>7</sup> / <sub>16</sub>  | 97.6<br>3 <sup>27</sup> / <sub>32</sub>  | 10<br>2 <sup>5</sup> / <sub>64</sub> | 16<br>5 <sup>5</sup> / <sub>8</sub>  | 12<br>1 <sup>5</sup> / <sub>32</sub> | 28<br>1 <sup>3</sup> / <sub>32</sub>  | 29<br>1 <sup>5</sup> / <sub>32</sub>   | 40<br>1 <sup>37</sup> / <sub>64</sub> | 110<br>4.3307         | 54.6<br>2 <sup>5</sup> / <sub>32</sub>  | 51.6<br>2.0315 | 19<br>0.748   | —<br>—                                 | M14<br>1 <sup>1</sup> / <sub>2</sub> |
| 55<br>2<br>2 <sup>1</sup> / <sub>16</sub><br>2 <sup>1</sup> / <sub>8</sub><br>2 <sup>3</sup> / <sub>16</sub>                             | UCFC211D1<br>UCFC211-200D1<br>UCFC211-201D1<br>UCFC211-202D1<br>UCFC211-203D1 | 185<br>7 <sup>9</sup> / <sub>32</sub>  | 150<br>5 <sup>29</sup> / <sub>32</sub> | 106.1<br>4 <sup>11</sup> / <sub>64</sub> | 13<br>3 <sup>3</sup> / <sub>64</sub> | 19<br>3 <sup>3</sup> / <sub>4</sub>  | 12<br>1 <sup>5</sup> / <sub>32</sub> | 31<br>1 <sup>7</sup> / <sub>32</sub>  | 32.5<br>1 <sup>9</sup> / <sub>32</sub> | 43<br>1 <sup>11</sup> / <sub>16</sub> | 125<br>4.9213         | 58.4<br>2 <sup>19</sup> / <sub>64</sub> | 55.6<br>2.1890 | 22.2<br>0.874 | —<br>—                                 | M16<br>5 <sup>5</sup> / <sub>8</sub> |
| 60<br>2 <sup>1</sup> / <sub>4</sub><br>2 <sup>5</sup> / <sub>16</sub><br>2 <sup>3</sup> / <sub>8</sub><br>2 <sup>7</sup> / <sub>16</sub> | UCFC212D1<br>UCFC212-204D1<br>UCFC212-205D1<br>UCFC212-206D1<br>UCFC212-207D1 | 195<br>7 <sup>11</sup> / <sub>16</sub> | 160<br>6 <sup>19</sup> / <sub>64</sub> | 113.1<br>4 <sup>29</sup> / <sub>64</sub> | 17<br>4 <sup>3</sup> / <sub>64</sub> | 19<br>3 <sup>3</sup> / <sub>4</sub>  | 12<br>1 <sup>5</sup> / <sub>32</sub> | 36<br>1 <sup>13</sup> / <sub>32</sub> | 38<br>1 <sup>1</sup> / <sub>2</sub>    | 48<br>1 <sup>57</sup> / <sub>64</sub> | 135<br>5.3150         | 68.7<br>2 <sup>45</sup> / <sub>64</sub> | 65.1<br>2.5630 | 25.4<br>1.000 | —<br>—                                 | M16<br>5 <sup>5</sup> / <sub>8</sub> |
| 65<br>2 <sup>1</sup> / <sub>2</sub><br>2 <sup>9</sup> / <sub>16</sub>                                                                    | UCFC213D1<br>UCFC213-208D1<br>UCFC213-209D1                                   | 205<br>8 <sup>1</sup> / <sub>16</sub>  | 170<br>6 <sup>11</sup> / <sub>16</sub> | 120.2<br>4 <sup>47</sup> / <sub>64</sub> | 16<br>5 <sup>5</sup> / <sub>8</sub>  | 19<br>3 <sup>3</sup> / <sub>4</sub>  | 14<br>3 <sup>5</sup> / <sub>64</sub> | 36<br>1 <sup>13</sup> / <sub>32</sub> | 38<br>1 <sup>1</sup> / <sub>2</sub>    | 50<br>1 <sup>31</sup> / <sub>32</sub> | 145<br>5.7087         | 69.7<br>2 <sup>3</sup> / <sub>4</sub>   | 65.1<br>2.5630 | 25.4<br>1.000 | —<br>—                                 | M16<br>5 <sup>5</sup> / <sub>8</sub> |
| 70<br>2 <sup>5</sup> / <sub>8</sub><br>2 <sup>11</sup> / <sub>16</sub><br>2 <sup>3</sup> / <sub>4</sub>                                  | UCFC214D1<br>UCFC214-210D1<br>UCFC214-211D1<br>UCFC214-212D1                  | 215<br>8 <sup>15</sup> / <sub>32</sub> | 177<br>6 <sup>31</sup> / <sub>32</sub> | 125.2<br>4 <sup>59</sup> / <sub>64</sub> | 17<br>4 <sup>3</sup> / <sub>64</sub> | 19<br>3 <sup>3</sup> / <sub>4</sub>  | 14<br>3 <sup>5</sup> / <sub>64</sub> | 40<br>1 <sup>37</sup> / <sub>64</sub> | 39.5<br>1 <sup>9</sup> / <sub>16</sub> | 54<br>2 <sup>1</sup> / <sub>8</sub>   | 150<br>5.9055         | 75.4<br>2 <sup>31</sup> / <sub>32</sub> | 74.6<br>2.9370 | 30.2<br>1.189 | 94<br>3 <sup>45</sup> / <sub>64</sub>  | M16<br>5 <sup>5</sup> / <sub>8</sub> |
| 75<br>2 <sup>13</sup> / <sub>16</sub><br>2 <sup>7</sup> / <sub>8</sub><br>2 <sup>15</sup> / <sub>16</sub><br>3                           | UCFC215D1<br>UCFC215-213D1<br>UCFC215-214D1<br>UCFC215-215D1<br>UCFC215-300D1 | 220<br>8 <sup>21</sup> / <sub>32</sub> | 184<br>7 <sup>1</sup> / <sub>4</sub>   | 130.1<br>5 <sup>1</sup> / <sub>8</sub>   | 18<br>4 <sup>5</sup> / <sub>64</sub> | 19<br>3 <sup>3</sup> / <sub>4</sub>  | 16<br>5 <sup>5</sup> / <sub>8</sub>  | 40<br>1 <sup>37</sup> / <sub>64</sub> | 43<br>1 <sup>11</sup> / <sub>16</sub>  | 56<br>2 <sup>13</sup> / <sub>64</sub> | 160<br>6.2992         | 78.5<br>3 <sup>3</sup> / <sub>32</sub>  | 77.8<br>3.0630 | 33.3<br>1.311 | 100<br>3 <sup>15</sup> / <sub>16</sub> | M16<br>5 <sup>5</sup> / <sub>8</sub> |
| 80<br>3 <sup>1</sup> / <sub>16</sub><br>3 <sup>3</sup> / <sub>8</sub><br>3 <sup>3</sup> / <sub>16</sub>                                  | UCFC216D1<br>UCFC216-301D1<br>UCFC216-302D1<br>UCFC216-303D1                  | 240<br>9 <sup>7</sup> / <sub>16</sub>  | 200<br>7 <sup>7</sup> / <sub>8</sub>   | 141.4<br>5 <sup>9</sup> / <sub>16</sub>  | 18<br>4 <sup>5</sup> / <sub>64</sub> | 23<br>2 <sup>9</sup> / <sub>32</sub> | 16<br>5 <sup>5</sup> / <sub>8</sub>  | 42<br>1 <sup>21</sup> / <sub>32</sub> | 43<br>1 <sup>11</sup> / <sub>16</sub>  | 58<br>2 <sup>9</sup> / <sub>32</sub>  | 170<br>6.6929         | 83.3<br>2 <sup>9</sup> / <sub>32</sub>  | 82.6<br>3.2520 | 33.3<br>1.311 | 105<br>4 <sup>1</sup> / <sub>8</sub>   | M20<br>3 <sup>3</sup> / <sub>4</sub> |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.



Press steel dust cover type (Close end)  
SM-UCFC...D1

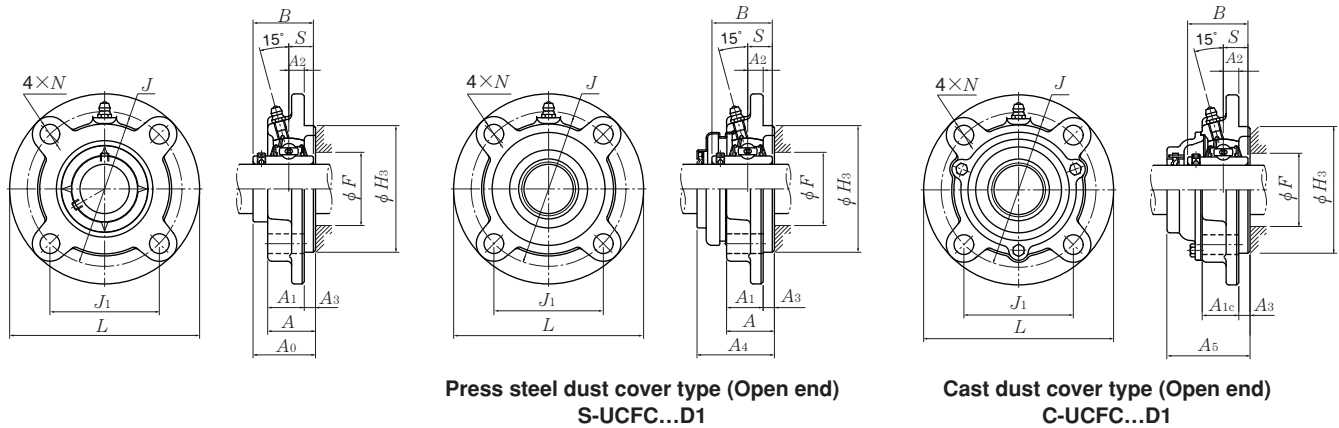


Cast dust cover type (Close end)  
CM-UCFC...D1

| Bearing number | Housing number <sup>1)</sup> | Unit number pressed <sup>1)</sup><br>steel dust cover type | Unit number <sup>1)</sup><br>cast dust cover type | Nominal dimensions |                |                |                | Mass (approx.) |       |       |
|----------------|------------------------------|------------------------------------------------------------|---------------------------------------------------|--------------------|----------------|----------------|----------------|----------------|-------|-------|
|                |                              |                                                            |                                                   | mm                 |                | inch           |                | kg             |       | lb    |
|                |                              |                                                            |                                                   | t <sub>1</sub>     | t <sub>2</sub> | A <sub>4</sub> | A <sub>5</sub> | UCFC           | S(SM) | C(CM) |
| UC210D1        | FC210D1                      | S(SM)-UCFC210D1                                            | C(CM)-UCFC210D1                                   | 8                  | 12             | 65.5           | 72             | 3.0            | 3.1   | 3.6   |
| UC210-113D1    | FC210D1                      | S(SM)-UCFC210-113D1                                        | C(CM)-UCFC210-113D1                               |                    |                |                |                |                |       |       |
| UC210-114D1    | FC210D1                      | S(SM)-UCFC210-114D1                                        | C(CM)-UCFC210-114D1                               | 5/16               | 15/32          | 2 37/64        | 2 53/64        | 6.6            | 6.8   | 7.9   |
| UC210-115D1    | FC210D1                      | S(SM)-UCFC210-115D1                                        | C(CM)-UCFC210-115D1                               |                    |                |                |                |                |       |       |
| UC210-200D1    | FC210D1                      | S(SM)-UCFC210-200D1                                        | C(CM)-UCFC210-200D1                               |                    |                |                |                |                |       |       |
| UC211D1        | FC211D1                      | S(SM)-UCFC211D1                                            | C(CM)-UCFC211D1                                   | 10                 | 11             | 71             | 75             | 4.1            | 4.2   | 4.8   |
| UC211-200D1    | FC211D1                      | S(SM)-UCFC211-200D1                                        | C(CM)-UCFC211-200D1                               |                    |                |                |                |                |       |       |
| UC211-201D1    | FC211D1                      | S(SM)-UCFC211-201D1                                        | C(CM)-UCFC211-201D1                               | 25/64              | 7/16           | 2 51/64        | 2 61/64        | 9.0            | 9.3   | 11    |
| UC211-202D1    | FC211D1                      | S(SM)-UCFC211-202D1                                        | C(CM)-UCFC211-202D1                               |                    |                |                |                |                |       |       |
| UC211-203D1    | FC211D1                      | S(SM)-UCFC211-203D1                                        | C(CM)-UCFC211-203D1                               |                    |                |                |                |                |       |       |
| UC212D1        | FC212D1                      | S(SM)-UCFC212D1                                            | C(CM)-UCFC212D1                                   | 8                  | 12             | 80             | 86             | 4.9            | 5.1   | 5.9   |
| UC212-204D1    | FC212D1                      | S(SM)-UCFC212-204D1                                        | C(CM)-UCFC212-204D1                               |                    |                |                |                |                |       |       |
| UC212-205D1    | FC212D1                      | S(SM)-UCFC212-205D1                                        | C(CM)-UCFC212-205D1                               | 5/16               | 15/32          | 3 5/32         | 3 25/64        | 11             | 11    | 13    |
| UC212-206D1    | FC212D1                      | S(SM)-UCFC212-206D1                                        | C(CM)-UCFC212-206D1                               |                    |                |                |                |                |       |       |
| UC212-207D1    | FC212D1                      | S(SM)-UCFC212-207D1                                        | C(CM)-UCFC212-207D1                               |                    |                |                |                |                |       |       |
| UC213D1        | FC213D1                      | S(SM)-UCFC213D1                                            | C(CM)-UCFC213D1                                   | 11                 | 14             | 83.5           | 89.5           | 5.8            | 6.0   | 6.8   |
| UC213-208D1    | FC213D1                      | S(SM)-UCFC213-208D1                                        | C(CM)-UCFC213-208D1                               | 7/16               | 35/64          | 3 9/32         | 3 17/32        | 13             | 14    | 17    |
| UC213-209D1    | FC213D1                      | S(SM)-UCFC213-209D1                                        | C(CM)-UCFC213-209D1                               |                    |                |                |                |                |       |       |
| UC214D1        | FC214D1                      | —                                                          | C(CM)-UCFC214D1                                   | —                  | 16             | —              | 98             | 7.0            | —     | 8.0   |
| UC214-210D1    | FC214D1                      | —                                                          | C(CM)-UCFC214-210D1                               | —                  | 5/8            | —              | 3 55/64        | 15             | —     | 18    |
| UC214-211D1    | FC214D1                      | —                                                          | C(CM)-UCFC214-211D1                               |                    |                |                |                |                |       |       |
| UC214-212D1    | FC214D1                      | —                                                          | C(CM)-UCFC214-212D1                               |                    |                |                |                |                |       |       |
| UC215D1        | FC215D1                      | —                                                          | C(CM)-UCFC215D1                                   | —                  | 17             | —              | 102            | 7.4            | —     | 8.8   |
| UC215-213D1    | FC215D1                      | —                                                          | C(CM)-UCFC215-213D1                               | —                  | 21/32          | —              | 4 1/64         | 16             | —     | 19    |
| UC215-214D1    | FC215D1                      | —                                                          | C(CM)-UCFC215-214D1                               |                    |                |                |                |                |       |       |
| UC215-215D1    | FC215D1                      | —                                                          | C(CM)-UCFC215-215D1                               |                    |                |                |                |                |       |       |
| UC215-300D1    | FC215D1                      | —                                                          | C(CM)-UCFC215-300D1                               |                    |                |                |                |                |       |       |
| UC216D1        | FC216D1                      | —                                                          | C(CM)-UCFC216D1                                   | —                  | 16             | —              | 106            | 9.1            | —     | 10    |
| UC216-301D1    | FC216D1                      | —                                                          | C(CM)-UCFC216-301D1                               | —                  | 5/8            | —              | 4 11/64        | 20             | —     | 22    |
| UC216-302D1    | FC216D1                      | —                                                          | C(CM)-UCFC216-302D1                               |                    |                |                |                |                |       |       |
| UC216-303D1    | FC216D1                      | —                                                          | C(CM)-UCFC216-303D1                               |                    |                |                |                |                |       |       |



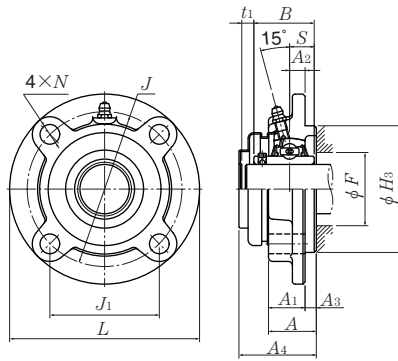
## Round flanged units cast housing w/ spigot joint Set screw type



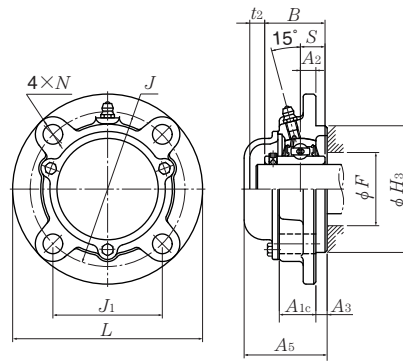
| Shaft<br>dia. | Unit number <sup>1)</sup>      | Nominal dimensions              |                                 |                                 |                      |                   |                      |                                 |                                 |                                 |                      |                                 |          |          |                                 | Bolt<br>size |
|---------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------|-------------------|----------------------|---------------------------------|---------------------------------|---------------------------------|----------------------|---------------------------------|----------|----------|---------------------------------|--------------|
|               |                                |                                 |                                 |                                 |                      |                   |                      |                                 |                                 |                                 |                      |                                 |          |          |                                 |              |
| mm<br>inch    |                                |                                 |                                 |                                 |                      |                   |                      |                                 |                                 |                                 |                      |                                 |          |          |                                 | mm<br>inch   |
|               |                                | <i>L</i>                        | <i>J</i>                        | <i>(J<sub>1</sub>)</i>          | <i>A<sub>2</sub></i> | <i>N</i>          | <i>A<sub>3</sub></i> | <i>A<sub>1</sub></i>            | <i>A<sub>1c</sub></i>           | <i>A</i>                        | <i>H<sub>3</sub></i> | <i>A<sub>0</sub></i>            | <i>B</i> | <i>S</i> | <i>F</i> min                    |              |
| 85<br>3¼      | UCFC217D1<br>UCFC217-304D1     | 250                             | 208                             | 147.1                           | 18                   | 23                | 18                   | 45                              | 45.5                            | 63                              | 180                  | 87.6                            | 85.7     | 34.1     | 113                             | M20          |
| 3⅝<br>3⅞      | UCFC217-305D1<br>UCFC217-307D1 | 9 <sup>27</sup> / <sub>32</sub> | 8 <sup>3</sup> / <sub>16</sub>  | 5 <sup>51</sup> / <sub>64</sub> | 45/ <sub>64</sub>    | 29/ <sub>32</sub> | 45/ <sub>64</sub>    | 1 <sup>25</sup> / <sub>32</sub> | 1 <sup>51</sup> / <sub>64</sub> | 2 <sup>31</sup> / <sub>64</sub> | 7.0866               | 3 <sup>29</sup> / <sub>64</sub> | 3.3740   | 1.343    | 4 <sup>7</sup> / <sub>16</sub>  | ¾            |
| 90<br>3½      | UCFC218D1<br>UCFC218-308D1     | 265                             | 220                             | 155.6                           | 22                   | 23                | 18                   | 50                              | 50                              | 68                              | 190                  | 96.3                            | 96       | 39.7     | 191                             | M20          |
|               |                                | 10 <sup>7</sup> / <sub>16</sub> | 8 <sup>21</sup> / <sub>32</sub> | 6 <sup>1</sup> / <sub>8</sub>   | 55/ <sub>64</sub>    | 29/ <sub>32</sub> | 45/ <sub>64</sub>    | 1 <sup>31</sup> / <sub>32</sub> | 1 <sup>31</sup> / <sub>32</sub> | 2 <sup>43</sup> / <sub>64</sub> | 7.4803               | 3 <sup>51</sup> / <sub>64</sub> | 3.7795   | 1.563    | 4 <sup>11</sup> / <sub>16</sub> | ¾            |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.



Press steel dust cover type (Close end)  
SM-UCFC...D1

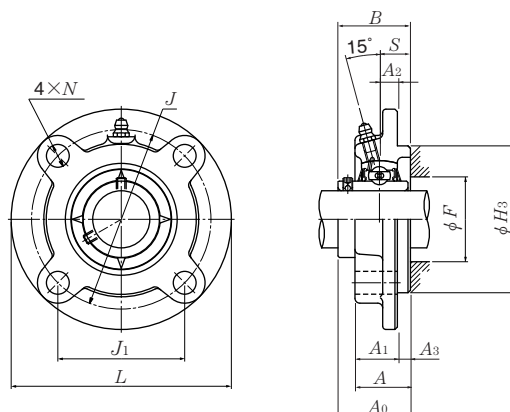


Cast dust cover type (Close end)  
CM-UCFC...D1

| Bearing number | Housing number <sup>1)</sup> | Unit number pressed <sup>1)</sup><br>steel dust cover type | Unit number <sup>1)</sup><br>cast dust cover type | Nominal dimensions |                |                |                | Mass (approx.) |       |       |
|----------------|------------------------------|------------------------------------------------------------|---------------------------------------------------|--------------------|----------------|----------------|----------------|----------------|-------|-------|
|                |                              |                                                            |                                                   | mm                 |                | inch           |                | kg             |       | lb    |
|                |                              |                                                            |                                                   | t <sub>1</sub>     | t <sub>2</sub> | A <sub>4</sub> | A <sub>5</sub> | UCFC           | S(SM) | C(CM) |
| UC217D1        | FC217D1                      | —                                                          | C(CM)-UCFC217D1                                   | —                  | 20             | —              | 114            | 11             | —     | 12    |
| UC217-304D1    | FC217D1                      | —                                                          | C(CM)-UCFC217-304D1                               | —                  | 25/32          | —              | 4 31/64        | 24             | —     | 26    |
| UC217-305D1    | FC217D1                      |                                                            | C(CM)-UCFC217-305D1                               |                    |                |                |                |                |       |       |
| UC217-307D1    | FC217D1                      |                                                            | C(CM)-UCFC217-307D1                               |                    |                |                |                |                |       |       |
| UC218D1        | FC218D1                      | —                                                          | C(CM)-UCFC218D1                                   | —                  | 19             | —              | 122            | 13             | —     | 15    |
| UC218-308D1    | FC218D1                      | —                                                          | C(CM)-UCFC218-308D1                               | —                  | 3/4            | —              | 4 51/64        | 29             | —     | 33    |

# Round flanged units cast housing w/ spigot joint

## Set screw type



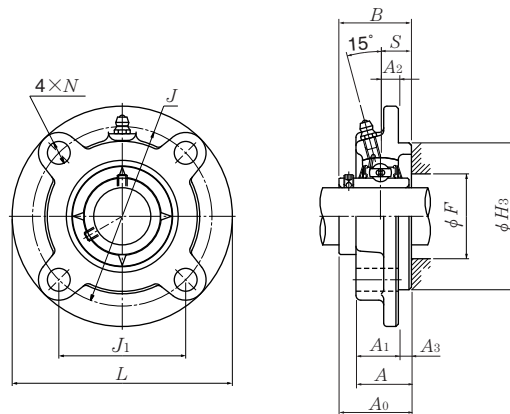
| Shaft<br>dia.                                  | Unit number <sup>1)</sup>                                                                                        | Nominal dimensions |          |                        |                       |          |                       |                       |          |                       |                       |          |          |              |            | Bolt<br>size |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------|----------|------------------------|-----------------------|----------|-----------------------|-----------------------|----------|-----------------------|-----------------------|----------|----------|--------------|------------|--------------|
|                                                |                                                                                                                  | mm                 |          |                        |                       |          |                       |                       | inch     |                       |                       |          |          |              |            |              |
|                                                |                                                                                                                  | <i>L</i>           | <i>J</i> | <i>(J<sub>1</sub>)</i> | <i>A</i> <sub>2</sub> | <i>N</i> | <i>A</i> <sub>3</sub> | <i>A</i> <sub>1</sub> | <i>A</i> | <i>H</i> <sub>3</sub> | <i>A</i> <sub>0</sub> | <i>B</i> | <i>S</i> | <i>F</i> min | mm<br>inch |              |
| <b>25</b><br>13⁄16<br>7⁄8<br>15⁄16<br><b>1</b> | <b>UCFCX05D1</b><br><b>UCFCX05-013D1</b><br><b>UCFCX05-014D1</b><br><b>UCFCX05-015D1</b><br><b>UCFCX05-100D1</b> | 111                | 92       | 65.1                   | 10                    | 9.5      | 6                     | 24                    | 30       | 76                    | 38.2                  | 38.1     | 15.9     | 46           | M 8        |              |
|                                                |                                                                                                                  | 43⁄8               | 35⁄8     | 29⁄16                  | 25⁄64                 | 3⁄8      | 1⁄4                   | 15⁄16                 | 13⁄16    | 2.9921                | 1½                    | 1.5000   | 0.626    | 113⁄16       | 5⁄16       |              |
| <b>30</b><br>1½⁄16<br>1⅛<br>13⁄16<br>1¼        | <b>UCFCX06D1</b><br><b>UCFCX06-101D1</b><br><b>UCFCX06-102D1</b><br><b>UCFCX06-103D1</b><br><b>UCFCX06-104D1</b> | 127                | 105      | 74.2                   | 8                     | 12       | 9.5                   | 22.5                  | 32       | 85                    | 42.9                  | 42.9     | 17.5     | 52           | M10        |              |
|                                                |                                                                                                                  | 5                  | 49⁄64    | 259⁄64                 | 5⁄16                  | 15⁄32    | 3⁄8                   | 7⁄8                   | 127⁄64   | 3.3465                | 111⁄16                | 1.6890   | 0.689    | 21⁄16        | 3⁄8        |              |
| <b>35</b><br>15⁄16<br>1⅜<br>17⁄16              | <b>UCFCX07D1</b><br><b>UCFCX07-105D1</b><br><b>UCFCX07-106D1</b><br><b>UCFCX07-107D1</b>                         | 133                | 111      | 78.5                   | 9                     | 12       | 11                    | 26                    | 37       | 92                    | 50.2                  | 49.2     | 19       | 59           | M10        |              |
|                                                |                                                                                                                  | 5¼                 | 43⁄8     | 33⁄32                  | 23⁄64                 | 15⁄32    | 7⁄16                  | 11⁄32                 | 129⁄64   | 3.6220                | 131⁄32                | 1.9370   | 0.748    | 25⁄16        | 3⁄8        |              |
| <b>40</b><br>1½<br>19⁄16                       | <b>UCFCX08D1</b><br><b>UCFCX08-108D1</b><br><b>UCFCX08-109D1</b>                                                 | 133                | 111      | 78.5                   | 9                     | 12       | 11                    | 26                    | 37       | 92                    | 50.2                  | 49.2     | 19       | 63           | M10        |              |
|                                                |                                                                                                                  | 5¼                 | 43⁄8     | 33⁄32                  | 23⁄64                 | 15⁄32    | 7⁄16                  | 11⁄32                 | 129⁄64   | 3.6220                | 131⁄32                | 1.9370   | 0.748    | 215⁄32       | 3⁄8        |              |
| <b>45</b><br>15⁄8<br>111⁄16<br>1¾<br>113⁄16    | <b>UCFCX09D1</b><br><b>UCFCX09-110D1</b><br><b>UCFCX09-111D1</b><br><b>UCFCX09-112D1</b><br><b>UCFCX09-113D1</b> | 155                | 130      | 91.9                   | 8                     | 14       | 12                    | 25                    | 37       | 108                   | 52.6                  | 51.6     | 19       | 68           | M12        |              |
|                                                |                                                                                                                  | 63⁄32              | 51⁄8     | 35⁄8                   | 5⁄16                  | 35⁄64    | 15⁄32                 | 31⁄32                 | 129⁄64   | 4.2520                | 25⁄64                 | 2.0315   | 0.748    | 211⁄16       | 7⁄16       |              |
| <b>50</b><br>17⁄8<br>115⁄16<br><b>2</b>        | <b>UCFCX10D1</b><br><b>UCFCX10-114D1</b><br><b>UCFCX10-115D1</b><br><b>UCFCX10-200D1</b>                         | 162                | 136      | 96.2                   | 7                     | 14       | 16                    | 25                    | 41       | 118                   | 56.4                  | 55.6     | 22.2     | 75           | M12        |              |
|                                                |                                                                                                                  | 63⁄8               | 523⁄64   | 325⁄32                 | 9⁄32                  | 35⁄64    | 5⁄8                   | 31⁄32                 | 139⁄64   | 4.6457                | 27⁄32                 | 2.1890   | 0.874    | 215⁄16       | 7⁄16       |              |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

| Bearing number | Housing number <sup>1)</sup> | Mass<br>(approx.) |
|----------------|------------------------------|-------------------|
|                |                              | kg lb             |
| UCX05D1        | FCX05D1                      | 1.2               |
| UCX05-013D1    | FCX05D1                      |                   |
| UCX05-014D1    | FCX05D1                      | 2.7               |
| UCX05-015D1    | FCX05D1                      |                   |
| UCX05-100D1    | FCX05D1                      |                   |
| UCX06D1        | FCX06D1                      | 1.7               |
| UCX06-101D1    | FCX06D1                      |                   |
| UCX06-102D1    | FCX06D1                      | 3.8               |
| UCX06-103D1    | FCX06D1                      |                   |
| UC207-104D1    | FCX06D1                      |                   |
| UCX07D1        | FCX07D1                      | 1.9               |
| UCX07-105D1    | FCX07D1                      |                   |
| UCX07-106D1    | FCX07D1                      | 4.2               |
| UCX07-107D1    | FCX07D1                      |                   |
| UCX08D1        | FCX08D1                      | 2.0               |
| UCX08-108D1    | FCX08D1                      | 4.4               |
| UCX08-109D1    | FCX08D1                      |                   |
| UCX09D1        | FCX09D1                      | 2.6               |
| UCX09-110D1    | FCX09D1                      |                   |
| UCX09-111D1    | FCX09D1                      | 5.7               |
| UCX09-112D1    | FCX09D1                      |                   |
| UC210-113D1    | FCX09D1                      |                   |
| UCX10D1        | FCX10D1                      | 3.1               |
| UCX10-114D1    | FCX10D1                      |                   |
| UCX10-115D1    | FCX10D1                      | 6.8               |
| UC211-200D1    | FCX10D1                      |                   |

Round flanged units cast housing w/ spigot joint  
Set screw type



| Shaft<br>dia.                                                                                                                                                              | Unit number <sup>1)</sup>                                                                      | Nominal dimensions                    |                                        |                                          |                                       |                                       |                                       |                                       |                                       |               |                                         |                       |               |                                        | Bolt<br>size                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------------------|------------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------|-----------------------------------------|-----------------------|---------------|----------------------------------------|--------------------------------------|
|                                                                                                                                                                            |                                                                                                |                                       |                                        |                                          |                                       |                                       |                                       |                                       |                                       |               |                                         |                       |               |                                        |                                      |
|                                                                                                                                                                            |                                                                                                | mm<br>inch                            | <i>L</i>                               | <i>J</i>                                 | ( <i>J</i> <sub>1</sub> )             | <i>A</i> <sub>2</sub>                 | <i>N</i>                              | <i>A</i> <sub>3</sub>                 | <i>A</i> <sub>1</sub>                 | <i>A</i>      | <i>H</i> <sub>3</sub>                   | <i>A</i> <sub>0</sub> | <i>B</i>      | <i>S</i>                               | <i>F</i> min                         |
| 55<br>2 <sup>1</sup> / <sub>16</sub><br>2 <sup>1</sup> / <sub>8</sub><br>2 <sup>3</sup> / <sub>16</sub><br>2 <sup>1</sup> / <sub>4</sub><br>2 <sup>5</sup> / <sub>16</sub> | UCFCX11D1<br>UCFCX11-201D1<br>UCFCX11-202D1<br>UCFCX11-203D1<br>UCFCX11-204D1<br>UCFCX11-205D1 | 180<br>7 <sup>3</sup> / <sub>32</sub> | 152<br>5 <sup>63</sup> / <sub>64</sub> | 107.5<br>4 <sup>15</sup> / <sub>64</sub> | 4<br>5 <sup>1</sup> / <sub>32</sub>   | 16<br>5 <sup>1</sup> / <sub>8</sub>   | 22<br>55 <sup>1</sup> / <sub>64</sub> | 26<br>1 <sup>1</sup> / <sub>32</sub>  | 48<br>1 <sup>57</sup> / <sub>64</sub> | 127<br>5.0000 | 65.7<br>2 <sup>19</sup> / <sub>32</sub> | 65.1<br>2.5630        | 25.4<br>1.000 | 83<br>3 <sup>9</sup> / <sub>32</sub>   | M14<br>1 <sup>1</sup> / <sub>2</sub> |
| 60<br>2 <sup>3</sup> / <sub>8</sub><br>2 <sup>7</sup> / <sub>16</sub>                                                                                                      | UCFCX12D1<br>UCFCX12-206D1<br>UCFCX12-207D1                                                    | 194<br>7 <sup>5</sup> / <sub>8</sub>  | 165<br>6 <sup>1</sup> / <sub>2</sub>   | 116.7<br>4 <sup>19</sup> / <sub>32</sub> | 11<br>7 <sup>1</sup> / <sub>16</sub>  | 16<br>5 <sup>1</sup> / <sub>8</sub>   | 20<br>25 <sup>1</sup> / <sub>32</sub> | 33<br>1 <sup>5</sup> / <sub>16</sub>  | 53<br>2 <sup>5</sup> / <sub>64</sub>  | 140<br>5.5118 | 70.7<br>2 <sup>25</sup> / <sub>32</sub> | 65.1<br>2.5630        | 25.4<br>1.000 | —<br>—                                 | M14<br>1 <sup>1</sup> / <sub>2</sub> |
| 65<br>2 <sup>1</sup> / <sub>2</sub><br>2 <sup>9</sup> / <sub>16</sub>                                                                                                      | UCFCX13D1<br>UCFCX13-208D1<br>UCFCX13-209D1                                                    | 194<br>7 <sup>5</sup> / <sub>8</sub>  | 165<br>6 <sup>1</sup> / <sub>2</sub>   | 116.7<br>4 <sup>19</sup> / <sub>32</sub> | 11<br>7 <sup>1</sup> / <sub>16</sub>  | 16<br>5 <sup>1</sup> / <sub>8</sub>   | 20<br>25 <sup>1</sup> / <sub>32</sub> | 33<br>1 <sup>5</sup> / <sub>16</sub>  | 53<br>2 <sup>5</sup> / <sub>64</sub>  | 140<br>5.5118 | 75.4<br>2 <sup>31</sup> / <sub>32</sub> | 74.6<br>2.9370        | 30.2<br>1.189 | 94<br>3 <sup>45</sup> / <sub>64</sub>  | M14<br>1 <sup>1</sup> / <sub>2</sub> |
| 70<br>2 <sup>5</sup> / <sub>8</sub><br>2 <sup>11</sup> / <sub>16</sub><br>2 <sup>3</sup> / <sub>4</sub>                                                                    | UCFCX14D1<br>UCFCX14-210D1<br>UCFCX14-211D1<br>UCFCX14-212D1                                   | 222<br>8 <sup>3</sup> / <sub>4</sub>  | 190<br>7 <sup>31</sup> / <sub>64</sub> | 134.4<br>5 <sup>9</sup> / <sub>32</sub>  | 14<br>35 <sup>1</sup> / <sub>64</sub> | 19<br>3 <sup>1</sup> / <sub>4</sub>   | 20<br>25 <sup>1</sup> / <sub>32</sub> | 36<br>1 <sup>13</sup> / <sub>32</sub> | 56<br>2 <sup>13</sup> / <sub>64</sub> | 164<br>6.4567 | 78.5<br>3 <sup>3</sup> / <sub>32</sub>  | 77.8<br>3.0630        | 33.3<br>1.311 | 102<br>4 <sup>1</sup> / <sub>64</sub>  | M16<br>5 <sup>5</sup> / <sub>8</sub> |
| 75<br>2 <sup>13</sup> / <sub>16</sub><br>2 <sup>7</sup> / <sub>8</sub><br>2 <sup>15</sup> / <sub>16</sub><br>3                                                             | UCFCX15D1<br>UCFCX15-213D1<br>UCFCX15-214D1<br>UCFCX15-215D1<br>UCFCX15-300D1                  | 222<br>8 <sup>3</sup> / <sub>4</sub>  | 190<br>7 <sup>31</sup> / <sub>64</sub> | 134.4<br>5 <sup>9</sup> / <sub>32</sub>  | 12<br>15 <sup>1</sup> / <sub>32</sub> | 19<br>3 <sup>1</sup> / <sub>4</sub>   | 22<br>55 <sup>1</sup> / <sub>64</sub> | 35<br>1 <sup>3</sup> / <sub>8</sub>   | 57<br>2 <sup>1</sup> / <sub>4</sub>   | 164<br>6.4567 | 83.3<br>3 <sup>9</sup> / <sub>32</sub>  | 82.6<br>3.2520        | 33.3<br>1.311 | 105<br>4 <sup>1</sup> / <sub>8</sub>   | M16<br>5 <sup>5</sup> / <sub>8</sub> |
| 80<br>3 <sup>1</sup> / <sub>16</sub><br>3 <sup>1</sup> / <sub>8</sub><br>3 <sup>3</sup> / <sub>16</sub><br>3 <sup>1</sup> / <sub>4</sub>                                   | UCFCX16D1<br>UCFCX16-301D1<br>UCFCX16-302D1<br>UCFCX16-303D1<br>UCFCX16-304D1                  | 260<br>10 <sup>1</sup> / <sub>4</sub> | 219<br>8 <sup>5</sup> / <sub>8</sub>   | 154.9<br>6 <sup>3</sup> / <sub>32</sub>  | 10<br>25 <sup>1</sup> / <sub>64</sub> | 23<br>29 <sup>1</sup> / <sub>32</sub> | 25<br>63 <sup>1</sup> / <sub>64</sub> | 36<br>1 <sup>13</sup> / <sub>32</sub> | 61<br>2 <sup>13</sup> / <sub>32</sub> | 186<br>7.3228 | 86.6<br>3 <sup>13</sup> / <sub>32</sub> | 85.7<br>3.3740        | 34.1<br>1.343 | 113<br>4 <sup>7</sup> / <sub>16</sub>  | M20<br>3 <sup>3</sup> / <sub>4</sub> |
| 85<br>3 <sup>5</sup> / <sub>16</sub><br>3 <sup>7</sup> / <sub>16</sub>                                                                                                     | UCFCX17D1<br>UCFCX17-305D1<br>UCFCX17-307D1                                                    | 260<br>10 <sup>1</sup> / <sub>4</sub> | 219<br>8 <sup>5</sup> / <sub>8</sub>   | 154.9<br>6 <sup>3</sup> / <sub>32</sub>  | 10<br>25 <sup>1</sup> / <sub>64</sub> | 23<br>29 <sup>1</sup> / <sub>32</sub> | 25<br>63 <sup>1</sup> / <sub>64</sub> | 36<br>1 <sup>13</sup> / <sub>32</sub> | 61<br>2 <sup>13</sup> / <sub>32</sub> | 186<br>7.3228 | 91.3<br>3 <sup>19</sup> / <sub>32</sub> | 96<br>3.7795          | 39.7<br>1.563 | 119<br>4 <sup>11</sup> / <sub>16</sub> | M20<br>3 <sup>3</sup> / <sub>4</sub> |

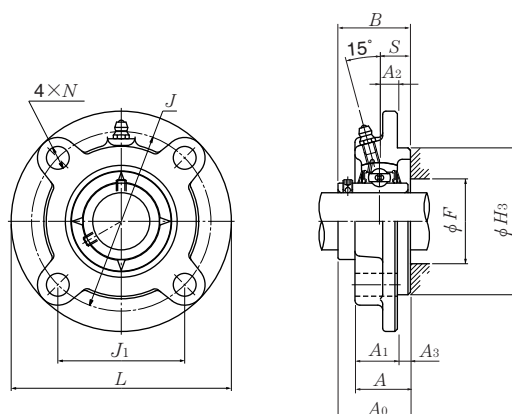
Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

| Bearing number | Housing number <sup>1)</sup> | Mass<br>(approx.) |
|----------------|------------------------------|-------------------|
|                |                              | kg lb             |
| UCX11D1        | FCX11D1                      | 4.2               |
| UCX11-201D1    | FCX11D1                      |                   |
| UCX11-202D1    | FCX11D1                      |                   |
| UCX11-203D1    | FCX11D1                      | 9.3               |
| UC212-204D1    | FCX11D1                      |                   |
| UC212-205D1    | FCX11D1                      |                   |
| UCX12D1        | FCX12D1                      | 5.5               |
| UCX12-206D1    | FCX12D1                      | 12                |
| UCX12-207D1    | FCX12D1                      |                   |
| UCX13D1        | FCX13D1                      | 5.7               |
| UCX13-208D1    | FCX13D1                      | 13                |
| UCX13-209D1    | FCX13D1                      |                   |
| UCX14D1        | FCX14D1                      | 7.3               |
| UCX14-210D1    | FCX14D1                      |                   |
| UCX14-211D1    | FCX14D1                      | 16                |
| UCX14-212D1    | FCX14D1                      |                   |
| UCX15D1        | FCX15D1                      | 8.0               |
| UCX15-213D1    | FCX15D1                      |                   |
| UCX15-214D1    | FCX15D1                      | 18                |
| UCX15-215D1    | FCX15D1                      |                   |
| UCX15-300D1    | FCX15D1                      |                   |
| UCX16D1        | FCX16D1                      | 12                |
| UCX16-301D1    | FCX16D1                      |                   |
| UCX16-302D1    | FCX16D1                      | 26                |
| UCX16-303D1    | FCX16D1                      |                   |
| UC217-304D1    | FCX16D1                      |                   |
| UCX17D1        | FCX17D1                      | 12                |
| UCX17-305D1    | FCX17D1                      | 26                |
| UCX17-307D1    | FCX17D1                      |                   |

# Round flanged units cast housing w/ spigot joint

## Set screw type



| Shaft<br>dia.                                                                                                          | Unit number <sup>1)</sup>                                                                                        | Nominal dimensions                    |                                      |                                         |                                      |                                      |                                      |                                       |                                       |                       |                                          |                 |               |                                        |            | Bolt<br>size |
|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------|--------------------------------------|-----------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|---------------------------------------|-----------------------|------------------------------------------|-----------------|---------------|----------------------------------------|------------|--------------|
|                                                                                                                        |                                                                                                                  | mm                                    |                                      |                                         |                                      |                                      |                                      |                                       | inch                                  |                       |                                          |                 |               |                                        |            |              |
|                                                                                                                        |                                                                                                                  | <i>L</i>                              | <i>J</i>                             | <i>(J</i> <sub>1</sub> <i>)</i>         | <i>A</i> <sub>2</sub>                | <i>N</i>                             | <i>A</i> <sub>3</sub>                | <i>A</i> <sub>1</sub>                 | <i>A</i>                              | <i>H</i> <sub>3</sub> | <i>A</i> <sub>0</sub>                    | <i>B</i>        | <i>S</i>      | <i>F</i> min                           | mm<br>inch |              |
| <b>90</b><br>3 <sup>7</sup> / <sub>16</sub><br>3 <sup>1</sup> / <sub>2</sub>                                           | <b>UCFCX18D1</b><br><b>UCFCX18-307D1</b><br><b>UCFCX18-308D1</b>                                                 | 260<br>10 <sup>1</sup> / <sub>4</sub> | 219<br>8 <sup>5</sup> / <sub>8</sub> | 154.9<br>6 <sup>3</sup> / <sub>32</sub> | 12<br>1 <sup>5</sup> / <sub>32</sub> | 23<br>2 <sup>9</sup> / <sub>32</sub> | 28<br>1 <sup>7</sup> / <sub>64</sub> | 43<br>1 <sup>11</sup> / <sub>16</sub> | 71<br>2 <sup>51</sup> / <sub>64</sub> | 186<br>7.3228         | 101.1<br>3 <sup>63</sup> / <sub>64</sub> | 104<br>4.0945   | 42.9<br>1.689 | 126<br>4 <sup>31</sup> / <sub>32</sub> | M20<br>3/4 |              |
| <b>100</b><br>3 <sup>13</sup> / <sub>16</sub><br>3 <sup>7</sup> / <sub>8</sub><br>3 <sup>15</sup> / <sub>16</sub><br>4 | <b>UCFCX20D1</b><br><b>UCFCX20-313D1</b><br><b>UCFCX20-314D1</b><br><b>UCFCX20-315D1</b><br><b>UCFCX20-400D1</b> | 276<br>10 <sup>7</sup> / <sub>8</sub> | 238<br>9 <sup>3</sup> / <sub>8</sub> | 168.3<br>6 <sup>5</sup> / <sub>8</sub>  | 22<br>5 <sup>5</sup> / <sub>64</sub> | 23<br>2 <sup>9</sup> / <sub>32</sub> | 28<br>1 <sup>7</sup> / <sub>64</sub> | 66<br>2 <sup>19</sup> / <sub>32</sub> | 94<br>3 <sup>45</sup> / <sub>64</sub> | 206<br>8.1102         | 118.3<br>4 <sup>21</sup> / <sub>32</sub> | 117.5<br>4.6260 | 49.2<br>1.937 | 139<br>5 <sup>15</sup> / <sub>32</sub> | M20<br>3/4 |              |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

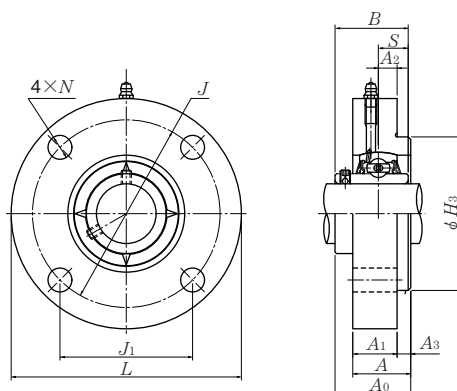
Note: Please refer to page 36 for size of grease fitting.

| Bearing number | Housing <sup>1)</sup><br>number | Mass<br>(approx.) |
|----------------|---------------------------------|-------------------|
|                |                                 | kg lb             |
| UCX18D1        | FCX18D1                         | 12                |
| UCX18-307D1    | FCX18D1                         | 26                |
| UCX18-308D1    | FCX18D1                         |                   |
| UCX20D1        | FCX20D1                         | 18                |
| UCX20-313D1    | FCX20D1                         | 40                |
| UCX20-314D1    | FCX20D1                         |                   |
| UCX20-315D1    | FCX20D1                         |                   |
| UCX20-400D1    | FCX20D1                         |                   |



# Round flanged units w/ spigot joint (Steel series)

## Set screw type



| Shaft<br>dia. | Unit number <sup>1)</sup> | Nominal dimensions |          |                        |                       |          |                       |                       |          |                       |                       |          |          | Bolt<br>size |
|---------------|---------------------------|--------------------|----------|------------------------|-----------------------|----------|-----------------------|-----------------------|----------|-----------------------|-----------------------|----------|----------|--------------|
| mm            |                           | mm                 |          |                        |                       |          |                       |                       |          |                       |                       |          |          | mm           |
|               |                           | <i>L</i>           | <i>J</i> | <i>(J<sub>1</sub>)</i> | <i>A</i> <sub>2</sub> | <i>N</i> | <i>A</i> <sub>3</sub> | <i>A</i> <sub>1</sub> | <i>A</i> | <i>H</i> <sub>3</sub> | <i>A</i> <sub>0</sub> | <i>B</i> | <i>S</i> |              |
| 12            | UCFCG201D1                | 100                | 78       | 55.2                   | 10                    | 12       | 5                     | 20.5                  | 25.5     | 62                    | 33.3                  | 31       | 12.7     | M10          |
| 15            | UCFCG202D1                | 100                | 78       | 55.2                   | 10                    | 12       | 5                     | 20.5                  | 25.5     | 62                    | 33.3                  | 31       | 12.7     | M10          |
| 17            | UCFCG203D1                | 100                | 78       | 55.2                   | 10                    | 12       | 5                     | 20.5                  | 25.5     | 62                    | 33.3                  | 31       | 12.7     | M10          |
| 20            | UCFCG204D1                | 100                | 78       | 55.2                   | 10                    | 12       | 5                     | 20.5                  | 25.5     | 62                    | 33.3                  | 31       | 12.7     | M10          |
| 25            | UCFCG205D1                | 115                | 90       | 63.6                   | 10                    | 12       | 6                     | 21                    | 27       | 70                    | 35.8                  | 34.1     | 14.3     | M10          |
| 30            | UCFCG206D1                | 125                | 100      | 70.7                   | 10                    | 12       | 8                     | 23                    | 31       | 80                    | 40.2                  | 38.1     | 15.9     | M10          |
| 35            | UCFCG207D1                | 135                | 110      | 77.8                   | 11                    | 14       | 8                     | 26                    | 34       | 90                    | 44.4                  | 42.9     | 17.5     | M12          |
| 40            | UCFCG208D1                | 145                | 120      | 84.9                   | 11                    | 14       | 10                    | 26                    | 36       | 100                   | 51.2                  | 49.2     | 19       | M12          |
| 45            | UCFCG209D1                | 160                | 132      | 93.3                   | 10                    | 16       | 12                    | 26                    | 38       | 105                   | 52.2                  | 49.2     | 19       | M14          |
| 50            | UCFCG210D1                | 165                | 138      | 97.6                   | 10                    | 16       | 12                    | 28                    | 40       | 110                   | 54.6                  | 51.6     | 19       | M14          |
| 55            | UCFCG211D1                | 185                | 150      | 106.1                  | 13                    | 19       | 12                    | 31                    | 43       | 125                   | 58.4                  | 55.6     | 22.2     | M16          |
| 60            | UCFCG212D1                | 195                | 160      | 113.1                  | 17                    | 19       | 12                    | 36                    | 48       | 135                   | 68.7                  | 65.1     | 25.4     | M16          |
| 65            | UCFCG213D1                | 205                | 170      | 120.2                  | 16                    | 19       | 14                    | 36                    | 50       | 145                   | 69.7                  | 65.1     | 25.4     | M16          |
| 70            | UCFCG214D1                | 215                | 177      | 125.2                  | 17                    | 19       | 14                    | 40                    | 54       | 150                   | 75.4                  | 74.6     | 30.2     | M16          |
| 75            | UCFCG215D1                | 220                | 184      | 130.1                  | 18                    | 19       | 16                    | 40                    | 56       | 160                   | 78.5                  | 77.8     | 33.3     | M16          |
| 80            | UCFCG216D1                | 240                | 200      | 141.4                  | 18                    | 23       | 16                    | 42                    | 58       | 170                   | 83.3                  | 82.6     | 33.3     | M20          |
| 85            | UCFCG217D1                | 250                | 208      | 147.1                  | 18                    | 23       | 18                    | 45                    | 63       | 180                   | 87.6                  | 85.7     | 34.1     | M20          |
| 90            | UCFCG218D1                | 265                | 220      | 155.6                  | 22                    | 23       | 18                    | 50                    | 68       | 190                   | 96.3                  | 96       | 39.7     | M20          |

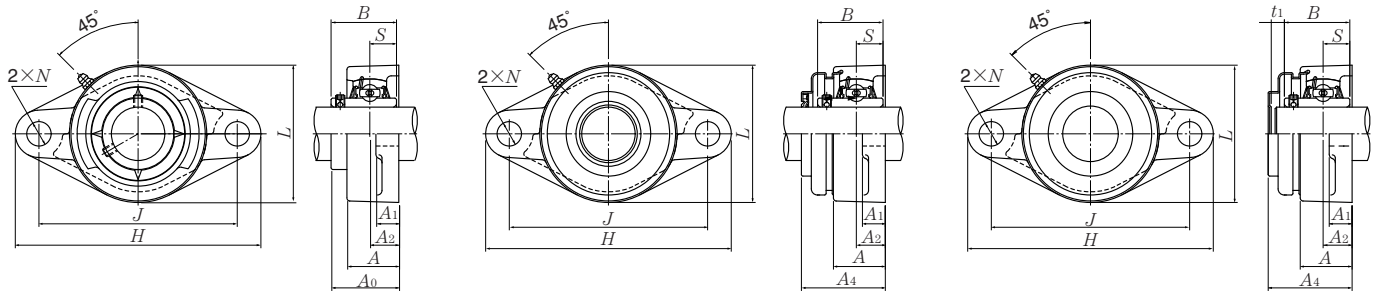
Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: 1) Please refer to page 36 for size of grease fitting.

2) Please refer to page 414-419 for inch series bearings.

| Bearing number | Housing <sup>1)</sup> number | Mass (approx.)<br>kg |
|----------------|------------------------------|----------------------|
| UC201D1        | FCG204D1                     | 1.2                  |
| UC202D1        | FCG204D1                     | 1.2                  |
| UC203D1        | FCG204D1                     | 1.1                  |
| UC204D1        | FCG204D1                     | 1.1                  |
| UC205D1        | FCG205D1                     | 1.6                  |
| UC206D1        | FCG206D1                     | 2.0                  |
| UC207D1        | FCG207D1                     | 2.6                  |
| UC208D1        | FCG208D1                     | 3.1                  |
| UC209D1        | FCG209D1                     | 3.8                  |
| UC210D1        | FCG210D1                     | 4.2                  |
| UC211D1        | FCG211D1                     | 5.8                  |
| UC212D1        | FCG212D1                     | 7.4                  |
| UC213D1        | FCG213D1                     | 8.1                  |
| UC214D1        | FCG214D1                     | 9.9                  |
| UC215D1        | FCG215D1                     | 10                   |
| UC216D1        | FCG216D1                     | 13                   |
| UC217D1        | FCG217D1                     | 15                   |
| UC218D1        | FCG218D1                     | 19                   |

# Rhombus flanged units cast housing Set screw type



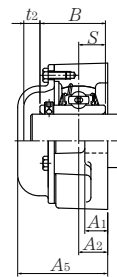
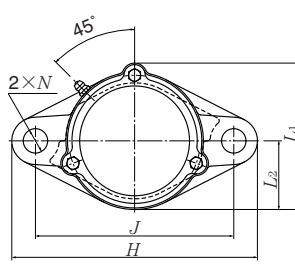
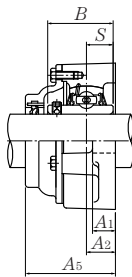
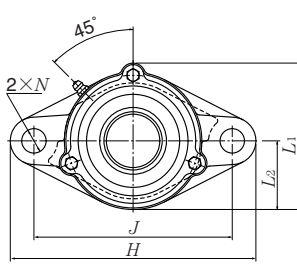
Press steel dust cover type (Open end)  
S-UCFL...D1

Press steel dust cover type (Close end)  
SM-UCFL...D1

| Shaft dia.                                                                                                    | Unit number <sup>1)</sup>                                                     | Nominal dimensions                     |                                        |                        |                        |                                       |                        |                                        |                                         |                |               | Bolt size             | Bearing number                                                      |
|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------|----------------------------------------|------------------------|------------------------|---------------------------------------|------------------------|----------------------------------------|-----------------------------------------|----------------|---------------|-----------------------|---------------------------------------------------------------------|
| mm<br>inch                                                                                                    |                                                                               | mm                                     |                                        |                        |                        |                                       | inch                   |                                        |                                         |                |               | mm<br>inch            |                                                                     |
|                                                                                                               |                                                                               | H                                      | J                                      | A <sub>2</sub>         | A <sub>1</sub>         | A                                     | N                      | L                                      | A <sub>0</sub>                          | B              | S             |                       |                                                                     |
| 12<br>1½                                                                                                      | UCFL201D1<br>UCFL201-008D1                                                    | 113<br>4 <sup>7</sup> / <sub>16</sub>  | 90<br>3 <sup>35</sup> / <sub>64</sub>  | 15<br>19 <sub>32</sub> | 11<br>7 <sub>16</sub>  | 25.5<br>1                             | 12<br>15 <sub>32</sub> | 60<br>2 <sup>3</sup> / <sub>8</sub>    | 33.3<br>1 <sup>5</sup> / <sub>16</sub>  | 31<br>1.2205   | 12.7<br>0.500 | M10<br>3 <sub>8</sub> | UC201D1<br>UC201-008D1                                              |
| 15<br>9 <sub>16</sub><br>5 <sub>8</sub>                                                                       | UCFL202D1<br>UCFL202-009D1<br>UCFL202-010D1                                   | 113<br>4 <sup>7</sup> / <sub>16</sub>  | 90<br>3 <sup>35</sup> / <sub>64</sub>  | 15<br>19 <sub>32</sub> | 11<br>7 <sub>16</sub>  | 25.5<br>1                             | 12<br>15 <sub>32</sub> | 60<br>2 <sup>3</sup> / <sub>8</sub>    | 33.3<br>1 <sup>5</sup> / <sub>16</sub>  | 31<br>1.2205   | 12.7<br>0.500 | M10<br>3 <sub>8</sub> | UC202D1<br>UC202-009D1<br>UC202-010D1                               |
| 17<br>1 <sup>1</sup> / <sub>16</sub>                                                                          | UCFL203D1<br>UCFL203-011D1                                                    | 113<br>4 <sup>7</sup> / <sub>16</sub>  | 90<br>3 <sup>35</sup> / <sub>64</sub>  | 15<br>19 <sub>32</sub> | 11<br>7 <sub>16</sub>  | 25.5<br>1                             | 12<br>15 <sub>32</sub> | 60<br>2 <sup>3</sup> / <sub>8</sub>    | 33.3<br>1 <sup>5</sup> / <sub>16</sub>  | 31<br>1.2205   | 12.7<br>0.500 | M10<br>3 <sub>8</sub> | UC203D1<br>UC203-011D1                                              |
| 20<br>¾                                                                                                       | UCFL204D1<br>UCFL204-012D1                                                    | 113<br>4 <sup>7</sup> / <sub>16</sub>  | 90<br>3 <sup>35</sup> / <sub>64</sub>  | 15<br>19 <sub>32</sub> | 11<br>7 <sub>16</sub>  | 25.5<br>1                             | 12<br>15 <sub>32</sub> | 60<br>2 <sup>3</sup> / <sub>8</sub>    | 33.3<br>1 <sup>5</sup> / <sub>16</sub>  | 31<br>1.2205   | 12.7<br>0.500 | M10<br>3 <sub>8</sub> | UC204D1<br>UC204-012D1                                              |
| 25<br>1 <sup>3</sup> / <sub>16</sub><br>7 <sub>8</sub><br>1 <sup>5</sup> / <sub>16</sub><br>1                 | UCFL205D1<br>UCFL205-013D1<br>UCFL205-014D1<br>UCFL205-015D1<br>UCFL205-100D1 | 130<br>5 <sup>1</sup> / <sub>8</sub>   | 99<br>3 <sup>57</sup> / <sub>64</sub>  | 16<br>5 <sub>8</sub>   | 13<br>½                | 27<br>1 <sup>1</sup> / <sub>16</sub>  | 16<br>5 <sub>8</sub>   | 68<br>2 <sup>11</sup> / <sub>16</sub>  | 35.8<br>1 <sup>13</sup> / <sub>32</sub> | 34.1<br>1.3425 | 14.3<br>0.563 | M14<br>½              | UC205D1<br>UC205-013D1<br>UC205-014D1<br>UC205-015D1<br>UC205-100D1 |
| 30<br>1 <sup>1</sup> / <sub>16</sub><br>1 <sup>1</sup> / <sub>8</sub><br>1 <sup>3</sup> / <sub>16</sub><br>1¼ | UCFL206D1<br>UCFL206-101D1<br>UCFL206-102D1<br>UCFL206-103D1<br>UCFL206-104D1 | 148<br>5 <sup>13</sup> / <sub>16</sub> | 117<br>4 <sup>39</sup> / <sub>64</sub> | 18<br>45 <sub>64</sub> | 13<br>½                | 31<br>1 <sup>7</sup> / <sub>32</sub>  | 16<br>5 <sub>8</sub>   | 80<br>3 <sup>5</sup> / <sub>32</sub>   | 40.2<br>1 <sup>37</sup> / <sub>64</sub> | 38.1<br>1.5000 | 15.9<br>0.626 | M14<br>½              | UC206D1<br>UC206-101D1<br>UC206-102D1<br>UC206-103D1<br>UC206-104D1 |
| 35<br>1¼<br>1 <sup>5</sup> / <sub>16</sub><br>1 <sup>3</sup> / <sub>8</sub><br>1 <sup>7</sup> / <sub>16</sub> | UCFL207D1<br>UCFL207-104D1<br>UCFL207-105D1<br>UCFL207-106D1<br>UCFL207-107D1 | 161<br>6 <sup>11</sup> / <sub>32</sub> | 130<br>5 <sup>1</sup> / <sub>8</sub>   | 19<br>¾                | 15<br>19 <sub>32</sub> | 34<br>1 <sup>11</sup> / <sub>32</sub> | 16<br>5 <sub>8</sub>   | 90<br>3 <sup>17</sup> / <sub>32</sub>  | 44.4<br>1¾                              | 42.9<br>1.6890 | 17.5<br>0.689 | M14<br>½              | UC207D1<br>UC207-104D1<br>UC207-105D1<br>UC207-106D1<br>UC207-107D1 |
| 40<br>1½<br>1 <sup>9</sup> / <sub>16</sub>                                                                    | UCFL208D1<br>UCFL208-108D1<br>UCFL208-109D1                                   | 175<br>6 <sup>7</sup> / <sub>8</sub>   | 144<br>5 <sup>43</sup> / <sub>64</sub> | 21<br>53 <sub>64</sub> | 15<br>19 <sub>32</sub> | 36<br>1 <sup>13</sup> / <sub>32</sub> | 16<br>5 <sub>8</sub>   | 100<br>3 <sup>15</sup> / <sub>16</sub> | 51.2<br>2 <sup>1</sup> / <sub>64</sub>  | 49.2<br>1.9370 | 19<br>0.748   | M14<br>½              | UC208D1<br>UC208-108D1<br>UC208-109D1                               |
| 45<br>1 <sup>5</sup> / <sub>8</sub><br>1 <sup>11</sup> / <sub>16</sub><br>1¾                                  | UCFL209D1<br>UCFL209-110D1<br>UCFL209-111D1<br>UCFL209-112D1                  | 188<br>7 <sup>13</sup> / <sub>32</sub> | 148<br>5 <sup>53</sup> / <sub>64</sub> | 22<br>55 <sub>64</sub> | 16<br>5 <sub>8</sub>   | 38<br>1½                              | 19<br>¾                | 108<br>4 <sup>1</sup> / <sub>4</sub>   | 52.2<br>2 <sup>1</sup> / <sub>16</sub>  | 49.2<br>1.9370 | 19<br>0.748   | M16<br>5 <sub>8</sub> | UC209D1<br>UC209-110D1<br>UC209-111D1<br>UC209-112D1                |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

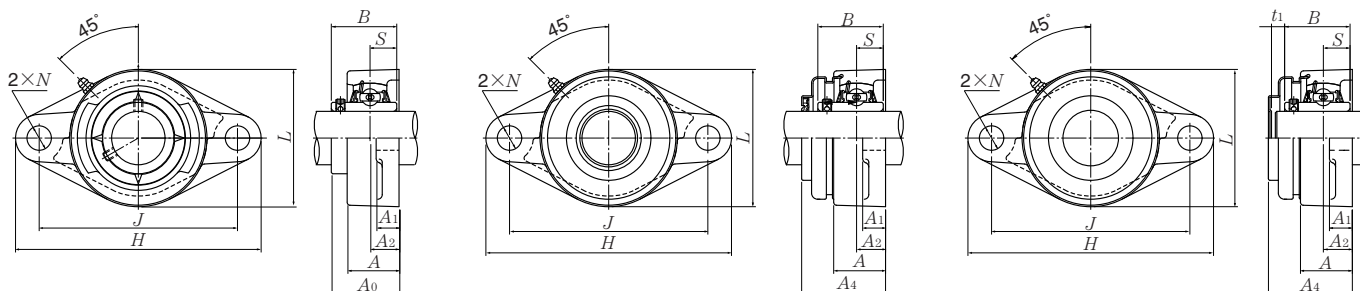


Cast dust cover type (Open end)  
C-UCFL...D1

Cast dust cover type (Close end)  
CM-UCFL...D1

| Housing<br>number | Unit number <sup>1)</sup><br>pressed steel dust<br>cover type | Unit number <sup>1)</sup><br>cast dust cover type | Nominal dimensions |                |                |                |                |                | Mass<br>(approx.) |       |       |
|-------------------|---------------------------------------------------------------|---------------------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|-------------------|-------|-------|
|                   |                                                               |                                                   | mm                 |                |                | inch           |                |                | kg                |       |       |
|                   |                                                               |                                                   | t <sub>1</sub>     | t <sub>2</sub> | A <sub>4</sub> | A <sub>5</sub> | L <sub>1</sub> | L <sub>2</sub> | UCFL              | S(SM) | C(CM) |
| FL204D1           | S(SM)-UCFL201D1                                               | C(CM)-UCFL201D1                                   | 5                  | 8              | 40.5           | 46             | 67             | 30             | 0.5               | 0.5   | 0.6   |
| FL204D1           | S(SM)-UCFL201-008D1                                           | C(CM)-UCFL201-008D1                               | 13/64              | 5/16           | 1 19/32        | 1 13/16        | 2 5/8          | 1 3/16         | 1.1               | 1.1   | 1.3   |
| FL204D1           | S(SM)-UCFL202D1                                               | C(CM)-UCFL202D1                                   | 5                  | 8              | 40.5           | 46             | 67             | 30             | 0.5               | 0.5   | 0.6   |
| FL204D1           | S(SM)-UCFL202-009D1                                           | C(CM)-UCFL202-009D1                               | 13/64              | 5/16           | 1 19/32        | 1 13/16        | 2 5/8          | 1 3/16         | 1.1               | 1.1   | 1.3   |
| FL204D1           | S(SM)-UCFL202-010D1                                           | C(CM)-UCFL202-009D1                               |                    |                |                |                |                |                |                   |       |       |
| FL204D1           | S(SM)-UCFL203D1                                               | C(CM)-UCFL203D1                                   | 5                  | 8              | 40.5           | 46             | 67             | 30             | 0.5               | 0.5   | 0.6   |
| FL204D1           | S(SM)-UCFL203-011D1                                           | C(CM)-UCFL203-011D1                               | 13/64              | 5/16           | 1 19/32        | 1 13/32        | 2 5/8          | 1 3/16         | 1.1               | 1.1   | 1.3   |
| FL204D1           | S(SM)-UCFL204D1                                               | C(CM)-UCFL204D1                                   | 5                  | 8              | 40.5           | 46             | 67             | 30             | 0.4               | 0.4   | 0.6   |
| FL204D1           | S(SM)-UCFL204-012D1                                           | C(CM)-UCFL204-012D1                               | 13/64              | 5/16           | 1 19/32        | 1 13/16        | 2 5/8          | 1 3/16         | 0.9               | 0.9   | 1.3   |
| FL205D1           | S(SM)-UCFL205D1                                               | C(CM)-UCFL205D1                                   | 7                  | 11             | 44.5           | 51             | 74             | 34             | 0.6               | 0.6   | 0.8   |
| FL205D1           | S(SM)-UCFL205-013D1                                           | C(CM)-UCFL205-013D1                               |                    |                |                |                |                |                |                   |       |       |
| FL205D1           | S(SM)-UCFL205-014D1                                           | C(CM)-UCFL205-014D1                               | 9/32               | 7/16           | 1 3/4          | 2              | 2 29/32        | 1 11/32        | 1.3               | 1.3   | 1.8   |
| FL205D1           | S(SM)-UCFL205-015D1                                           | C(CM)-UCFL205-015D1                               |                    |                |                |                |                |                |                   |       |       |
| FL205D1           | S(SM)-UCFL205-100D1                                           | C(CM)-UCFL205-100D1                               |                    |                |                |                |                |                |                   |       |       |
| FL206D1           | S(SM)-UCFL206D1                                               | C(CM)-UCFL206D1                                   | 7                  | 11             | 49             | 56             | 85             | 40             | 0.9               | 0.9   | 1.2   |
| FL206D1           | S(SM)-UCFL206-101D1                                           | C(CM)-UCFL206-101D1                               |                    |                |                |                |                |                |                   |       |       |
| FL206D1           | S(SM)-UCFL206-102D1                                           | C(CM)-UCFL206-102D1                               | 9/32               | 7/16           | 1 15/16        | 2 7/32         | 3 11/32        | 1 9/16         | 2.0               | 2.0   | 2.6   |
| FL206D1           | S(SM)-UCFL206-103D1                                           | C(CM)-UCFL206-103D1                               |                    |                |                |                |                |                |                   |       |       |
| FL206D1           | S(SM)-UCFL206-104D1                                           | C(CM)-UCFL206-104D1                               |                    |                |                |                |                |                |                   |       |       |
| FL207D1           | S(SM)-UCFL207D1                                               | C(CM)-UCFL207D1                                   | 8                  | 10             | 55             | 59             | 97             | 45             | 1.2               | 1.2   | 1.4   |
| FL207D1           | S(SM)-UCFL207-104D1                                           | C(CM)-UCFL207-104D1                               |                    |                |                |                |                |                |                   |       |       |
| FL207D1           | S(SM)-UCFL207-105D1                                           | C(CM)-UCFL207-105D1                               | 5/16               | 25/64          | 2 5/32         | 2 5/16         | 3 13/16        | 1 25/32        | 2.6               | 2.6   | 3.1   |
| FL207D1           | S(SM)-UCFL207-106D1                                           | C(CM)-UCFL207-106D1                               |                    |                |                |                |                |                |                   |       |       |
| FL207D1           | S(SM)-UCFL207-107D1                                           | C(CM)-UCFL207-107D1                               |                    |                |                |                |                |                |                   |       |       |
| FL208D1           | S(SM)-UCFL208D1                                               | C(CM)-UCFL208D1                                   | 8                  | 9              | 62             | 66             | 106            | 50             | 1.5               | 1.5   | 1.9   |
| FL208D1           | S(SM)-UCFL208-108D1                                           | C(CM)-UCFL208-108D1                               | 5/16               | 23/64          | 2 7/16         | 2 19/32        | 4 3/16         | 1 31/32        | 3.3               | 3.3   | 4.2   |
| FL208D1           | S(SM)-UCFL208-109D1                                           | C(CM)-UCFL208-109D1                               |                    |                |                |                |                |                |                   |       |       |
| FL209D1           | S(SM)-UCFL209D1                                               | C(CM)-UCFL209D1                                   | 8                  | 12             | 63             | 70             | 113            | 54             | 1.8               | 1.9   | 2.3   |
| FL209D1           | S(SM)-UCFL209-110D1                                           | C(CM)-UCFL209-110D1                               |                    |                |                |                |                |                |                   |       |       |
| FL209D1           | S(SM)-UCFL209-111D1                                           | C(CM)-UCFL209-111D1                               | 5/16               | 15/32          | 2 15/32        | 2 3/4          | 4 7/16         | 2 1/8          | 4.0               | 4.2   | 5.1   |
| FL209D1           | S(SM)-UCFL209-112D1                                           | C(CM)-UCFL209-112D1                               |                    |                |                |                |                |                |                   |       |       |

# Rhombus flanged units cast housing Set screw type



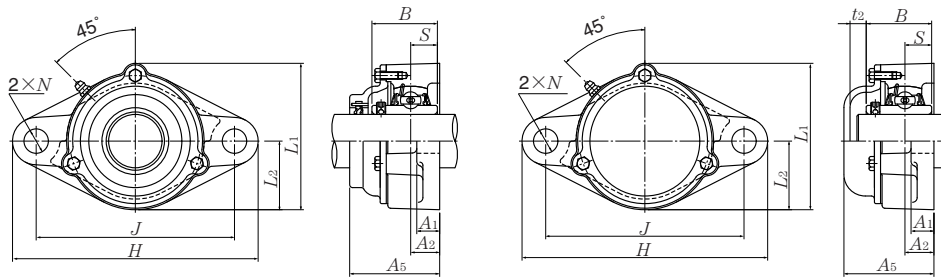
Press steel dust cover type (Open end)  
S-UCFL...D1

Press steel dust cover type (Close end)  
SM-UCFL...D1

| Shaft<br>dia.                                                                                                                            | Unit number <sup>1)</sup>                                                     | Nominal dimensions |          |                       |                       |          |          |          |                       |          |          | Bolt<br>size | Bearing number                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------|----------|-----------------------|-----------------------|----------|----------|----------|-----------------------|----------|----------|--------------|---------------------------------------------------------------------|
|                                                                                                                                          |                                                                               | mm                 |          |                       |                       |          | inch     |          |                       |          |          |              |                                                                     |
|                                                                                                                                          |                                                                               | <i>H</i>           | <i>J</i> | <i>A</i> <sub>2</sub> | <i>A</i> <sub>1</sub> | <i>A</i> | <i>N</i> | <i>L</i> | <i>A</i> <sub>0</sub> | <i>B</i> | <i>S</i> |              |                                                                     |
| 50<br>1 <sup>13</sup> / <sub>16</sub><br>1 <sup>7</sup> / <sub>8</sub><br>1 <sup>15</sup> / <sub>16</sub><br>2                           | UCFL210D1<br>UCFL210-113D1<br>UCFL210-114D1<br>UCFL210-115D1<br>UCFL210-200D1 | 197                | 157      | 22                    | 16                    | 40       | 19       | 115      | 54.6                  | 51.6     | 19       | M16          | UC210D1<br>UC210-113D1<br>UC210-114D1<br>UC210-115D1<br>UC210-200D1 |
| 55<br>2<br>2 <sup>1</sup> / <sub>16</sub><br>2 <sup>1</sup> / <sub>8</sub><br>2 <sup>3</sup> / <sub>16</sub>                             | UCFL211D1<br>UCFL211-200D1<br>UCFL211-201D1<br>UCFL211-202D1<br>UCFL211-203D1 | 224                | 184      | 25                    | 18                    | 43       | 19       | 130      | 58.4                  | 55.6     | 22.2     | M16          | UC211D1<br>UC211-200D1<br>UC211-201D1<br>UC211-202D1<br>UC211-203D1 |
| 60<br>2 <sup>1</sup> / <sub>4</sub><br>2 <sup>5</sup> / <sub>16</sub><br>2 <sup>3</sup> / <sub>8</sub><br>2 <sup>7</sup> / <sub>16</sub> | UCFL212D1<br>UCFL212-204D1<br>UCFL212-205D1<br>UCFL212-206D1<br>UCFL212-207D1 | 250                | 202      | 29                    | 18                    | 48       | 23       | 140      | 68.7                  | 65.1     | 25.4     | M20          | UC212D1<br>UC212-204D1<br>UC212-205D1<br>UC212-206D1<br>UC212-207D1 |
| 65<br>2 <sup>1</sup> / <sub>2</sub><br>2 <sup>9</sup> / <sub>16</sub>                                                                    | UCFL213D1<br>UCFL213-208D1<br>UCFL213-209D1                                   | 258                | 210      | 30                    | 22                    | 50       | 23       | 155      | 69.7                  | 65.1     | 25.4     | M20          | UC213D1<br>UC213-208D1<br>UC213-209D1                               |
| 70<br>2 <sup>5</sup> / <sub>8</sub><br>2 <sup>11</sup> / <sub>16</sub><br>2 <sup>3</sup> / <sub>4</sub>                                  | UCFL214D1<br>UCFL214-210D1<br>UCFL214-211D1<br>UCFL214-212D1                  | 265                | 216      | 31                    | 22                    | 54       | 23       | 160      | 75.4                  | 74.6     | 30.2     | M20          | UC214D1<br>UC214-210D1<br>UC214-211D1<br>UC214-212D1                |
| 75<br>2 <sup>13</sup> / <sub>16</sub><br>2 <sup>7</sup> / <sub>8</sub><br>2 <sup>15</sup> / <sub>16</sub><br>3                           | UCFL215D1<br>UCFL215-213D1<br>UCFL215-214D1<br>UCFL215-215D1<br>UCFL215-300D1 | 275                | 225      | 34                    | 22                    | 56       | 23       | 165      | 78.5                  | 77.8     | 33.3     | M20          | UC215D1<br>UC215-213D1<br>UC215-214D1<br>UC215-215D1<br>UC215-300D1 |
| 80<br>3 <sup>1</sup> / <sub>16</sub><br>3 <sup>1</sup> / <sub>8</sub><br>3 <sup>3</sup> / <sub>16</sub>                                  | UCFL216D1<br>UCFL216-301D1<br>UCFL216-302D1<br>UCFL216-303D1                  | 290                | 233      | 34                    | 22                    | 58       | 25       | 180      | 83.3                  | 82.6     | 33.3     | M22          | UC216D1<br>UC216-301D1<br>UC216-302D1<br>UC216-303D1                |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

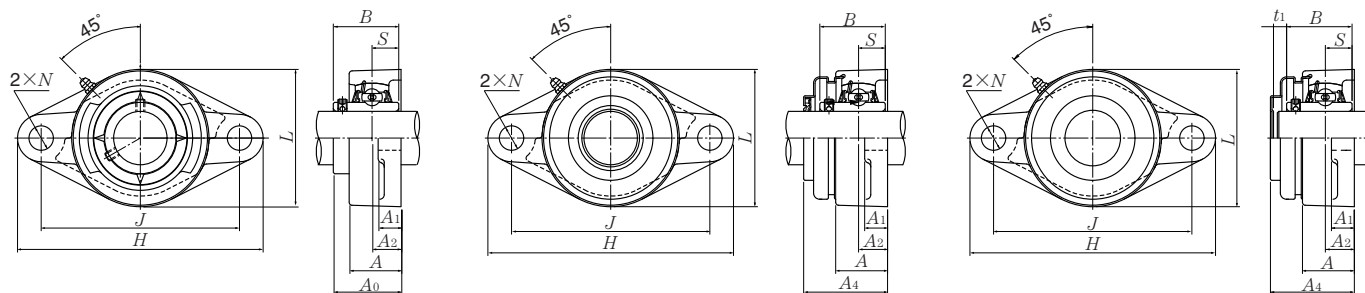


Cast dust cover type (Open end)  
C-UCFL...D1

Cast dust cover type (Close end)  
CM-UCFL...D1

| Housing<br>number | Unit number <sup>1)</sup><br>pressed steel dust<br>cover type | Unit number <sup>1)</sup><br>cast dust cover type | Nominal dimensions |                 |                  |                  |                  |                  | Mass<br>(approx.) |       |       |
|-------------------|---------------------------------------------------------------|---------------------------------------------------|--------------------|-----------------|------------------|------------------|------------------|------------------|-------------------|-------|-------|
|                   |                                                               |                                                   | mm                 |                 |                  | inch             |                  |                  | kg                |       |       |
|                   |                                                               |                                                   | $t_1$              | $t_2$           | $A_4$            | $A_5$            | $L_1$            | $L_2$            | UCFL              | S(SM) | C(CM) |
| FL210D1           | S(SM)-UCFL210D1                                               | C(CM)-UCFL210D1                                   | 8                  | 12              | 65.5             | 72               | 120              | 58               | 2.0               | 2.1   | 2.7   |
| FL210D1           | S(SM)-UCFL210-113D1                                           | C(CM)-UCFL210-113D1                               |                    |                 |                  |                  |                  |                  |                   |       |       |
| FL210D1           | S(SM)-UCFL210-114D1                                           | C(CM)-UCFL210-114D1                               | $\frac{5}{16}$     | $\frac{15}{32}$ | $2\frac{19}{32}$ | $2\frac{27}{32}$ | $4\frac{23}{32}$ | $2\frac{9}{32}$  | 4.4               | 4.6   | 6.0   |
| FL210D1           | S(SM)-UCFL210-115D1                                           | C(CM)-UCFL210-115D1                               |                    |                 |                  |                  |                  |                  |                   |       |       |
| FL210D1           | S(SM)-UCFL210-200D1                                           | C(CM)-UCFL210-200D1                               |                    |                 |                  |                  |                  |                  |                   |       |       |
| FL211D1           | S(SM)-UCFL211D1                                               | C(CM)-UCFL211D1                                   | 10                 | 11              | 71               | 75               | 133              | 65               | 2.9               | 3.0   | 3.4   |
| FL211D1           | S(SM)-UCFL211-200D1                                           | C(CM)-UCFL211-200D1                               |                    |                 |                  |                  |                  |                  |                   |       |       |
| FL211D1           | S(SM)-UCFL211-201D1                                           | C(CM)-UCFL211-201D1                               | $\frac{25}{64}$    | $\frac{7}{16}$  | $2\frac{25}{32}$ | $2\frac{15}{16}$ | $5\frac{1}{4}$   | $2\frac{9}{16}$  | 6.4               | 6.6   | 7.5   |
| FL211D1           | S(SM)-UCFL211-202D1                                           | C(CM)-UCFL211-202D1                               |                    |                 |                  |                  |                  |                  |                   |       |       |
| FL211D1           | S(SM)-UCFL211-203D1                                           | C(CM)-UCFL211-203D1                               |                    |                 |                  |                  |                  |                  |                   |       |       |
| FL212D1           | S(SM)-UCFL212D1                                               | C(CM)-UCFL212D1                                   | 8                  | 12              | 80               | 86               | 144              | 70               | 3.8               | 4.0   | 4.6   |
| FL212D1           | S(SM)-UCFL212-204D1                                           | C(CM)-UCFL212-204D1                               |                    |                 |                  |                  |                  |                  |                   |       |       |
| FL212D1           | S(SM)-UCFL212-205D1                                           | C(CM)-UCFL212-205D1                               | $\frac{5}{16}$     | $\frac{15}{32}$ | $3\frac{5}{32}$  | $3\frac{3}{8}$   | $5\frac{21}{32}$ | $2\frac{3}{4}$   | 8.4               | 8.8   | 10    |
| FL212D1           | S(SM)-UCFL212-206D1                                           | C(CM)-UCFL212-206D1                               |                    |                 |                  |                  |                  |                  |                   |       |       |
| FL212D1           | S(SM)-UCFL212-207D1                                           | C(CM)-UCFL212-207D1                               |                    |                 |                  |                  |                  |                  |                   |       |       |
| FL213D1           | S(SM)-UCFL213D1                                               | C(CM)-UCFL213D1                                   | 11                 | 15              | 83.5             | 90               | 157              | 78               | 4.8               | 4.9   | 5.8   |
| FL213D1           | S(SM)-UCFL213-208D1                                           | C(CM)-UCFL213-208D1                               | $\frac{7}{16}$     | $\frac{19}{32}$ | $3\frac{9}{32}$  | $3\frac{17}{32}$ | $6\frac{3}{16}$  | $3\frac{1}{16}$  | 11                | 11    | 15    |
| FL213D1           | S(SM)-UCFL213-209D1                                           | C(CM)-UCFL213-209D1                               |                    |                 |                  |                  |                  |                  |                   |       |       |
| FL214D1           | —                                                             | C(CM)-UCFL214D1                                   | —                  | 16              | —                | 98               | 164              | 80               | 5.4               | —     | 7.7   |
| FL214D1           | —                                                             | C(CM)-UCFL214-210D1                               |                    |                 |                  |                  |                  |                  |                   |       |       |
| FL214D1           | —                                                             | C(CM)-UCFL214-211D1                               | —                  | $\frac{5}{8}$   | —                | $3\frac{27}{32}$ | $6\frac{15}{32}$ | $3\frac{5}{32}$  | 12                | —     | 17    |
| FL214D1           | —                                                             | C(CM)-UCFL214-212D1                               |                    |                 |                  |                  |                  |                  |                   |       |       |
| FL215D1           | —                                                             | C(CM)-UCFL215D1                                   | —                  | 17              | —                | 102              | 169              | 82               | 6.0               | —     | 7.1   |
| FL215D1           | —                                                             | C(CM)-UCFL215-213D1                               |                    |                 |                  |                  |                  |                  |                   |       |       |
| FL215D1           | —                                                             | C(CM)-UCFL215-214D1                               | —                  | $2\frac{1}{32}$ | —                | $4\frac{1}{32}$  | $6\frac{21}{32}$ | $3\frac{7}{32}$  | 13                | —     | 16    |
| FL215D1           | —                                                             | C(CM)-UCFL215-215D1                               |                    |                 |                  |                  |                  |                  |                   |       |       |
| FL215D1           | —                                                             | C(CM)-UCFL215-300D1                               |                    |                 |                  |                  |                  |                  |                   |       |       |
| FL216D1           | —                                                             | C(CM)-UCFL216D1                                   | —                  | 16              | —                | 106              | 183              | 90               | 7.4               | —     | 8.6   |
| FL216D1           | —                                                             | C(CM)-UCFL216-301D1                               |                    |                 |                  |                  |                  |                  |                   |       |       |
| FL216D1           | —                                                             | C(CM)-UCFL216-302D1                               | —                  | $\frac{5}{8}$   | —                | $4\frac{3}{16}$  | $7\frac{7}{32}$  | $3\frac{17}{32}$ | 16                | —     | 19    |
| FL216D1           | —                                                             | C(CM)-UCFL216-303D1                               |                    |                 |                  |                  |                  |                  |                   |       |       |

## Rhombus flanged units cast housing Set screw type



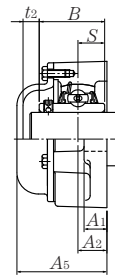
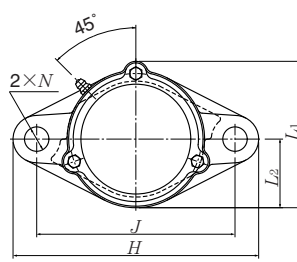
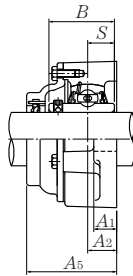
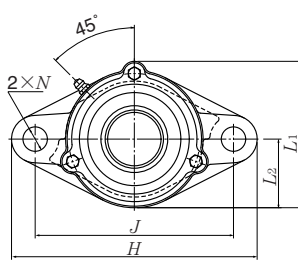
Press steel dust cover type (Open end)  
S-UCFL...D1

Press steel dust cover type (Close end)  
SM-UCFL...D1

| Shaft<br>dia.                                                    | Unit number <sup>1)</sup>      | Nominal dimensions |                                 |                                 |                                |                                 |                                |                                 |                                 |        |       | Bolt<br>size | Bearing number             |
|------------------------------------------------------------------|--------------------------------|--------------------|---------------------------------|---------------------------------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|---------------------------------|--------|-------|--------------|----------------------------|
|                                                                  |                                |                    |                                 |                                 |                                |                                 |                                |                                 |                                 |        |       |              |                            |
|                                                                  |                                |                    |                                 |                                 |                                |                                 |                                |                                 |                                 |        |       |              |                            |
| mm<br>inch                                                       |                                |                    |                                 |                                 |                                | mm                              | inch                           |                                 |                                 |        |       | mm<br>inch   |                            |
| 85<br>3¼                                                         | UCFL217D1<br>UCFL217-304D1     | 305                | 248                             | 36                              | 24                             | 63                              | 25                             | 190                             | 87.6                            | 85.7   | 34.1  | M22          | UC217D1<br>UC217-304D1     |
| 3 <sup>5</sup> / <sub>16</sub><br>3 <sup>7</sup> / <sub>16</sub> | UCFL217-305D1<br>UCFL217-307D1 | 12                 | 9 <sup>49</sup> / <sub>64</sub> | 1 <sup>27</sup> / <sub>64</sub> | 1 <sup>5</sup> / <sub>16</sub> | 2 <sup>15</sup> / <sub>32</sub> | 6 <sup>3</sup> / <sub>64</sub> | 7 <sup>15</sup> / <sub>32</sub> | 3 <sup>29</sup> / <sub>64</sub> | 3.3740 | 1.343 | 7/8          | UC217-305D1<br>UC217-307D1 |
| 90<br>3½                                                         | UCFL218D1<br>UCFL218-308D1     | 320                | 265                             | 40                              | 24                             | 68                              | 25                             | 205                             | 96.3                            | 96     | 39.7  | M22          | UC218D1<br>UC218-308D1     |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.



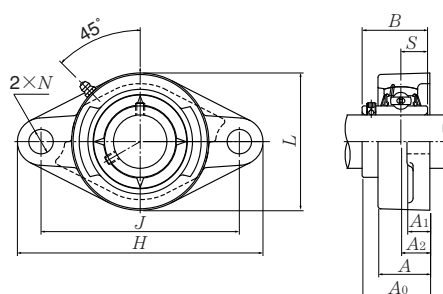
Cast dust cover type (Open end)  
C-UCFL...D1

Cast dust cover type (Close end)  
CM-UCFL...D1

| Housing<br>number | Unit number <sup>1)</sup><br>pressed steel dust<br>cover type | Unit number <sup>1)</sup><br>cast dust cover type | Nominal dimensions |                 |       |                  |                 |                 |  |  | Mass<br>(approx.) |       |       |
|-------------------|---------------------------------------------------------------|---------------------------------------------------|--------------------|-----------------|-------|------------------|-----------------|-----------------|--|--|-------------------|-------|-------|
|                   |                                                               |                                                   | mm                 |                 |       |                  | inch            |                 |  |  | kg                |       | lb    |
|                   |                                                               |                                                   | $t_1$              | $t_2$           | $A_4$ | $A_5$            | $L_1$           | $L_2$           |  |  | UCFL              | S(SM) | C(CM) |
| FL217D1           | —                                                             | C(CM)-UCFL217D1                                   | —                  | 20              | —     | 114              | 192             | 95              |  |  | 8.8               | —     | 10    |
| FL217D1           | —                                                             | C(CM)-UCFL217-304D1                               |                    |                 |       |                  |                 |                 |  |  |                   |       |       |
| FL217D1           | —                                                             | C(CM)-UCFL217-305D1                               | —                  | $\frac{25}{32}$ | —     | $4\frac{1}{2}$   | $7\frac{9}{16}$ | $3\frac{3}{4}$  |  |  | 19                | —     | 22    |
| FL217D1           | —                                                             | C(CM)-UCFL217-307D1                               |                    |                 |       |                  |                 |                 |  |  |                   |       |       |
| FL218D1           | —                                                             | C(CM)-UCFL218D1                                   | —                  | 19              | —     | 122              | 205             | 102             |  |  | 11                | —     | 13    |
| FL218D1           | —                                                             | C(CM)-UCFL218-308D1                               | —                  | $\frac{3}{4}$   | —     | $4\frac{13}{16}$ | $8\frac{1}{16}$ | $4\frac{1}{32}$ |  |  | 24                | —     | 29    |

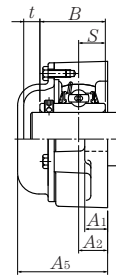
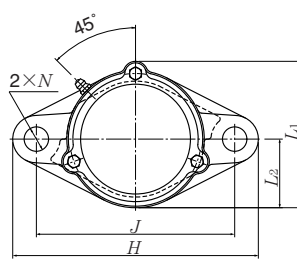
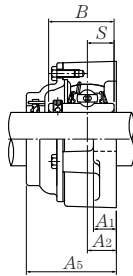
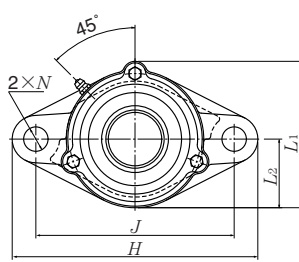


# Rhombus flanged units cast housing Set screw type



| Shaft<br>dia.<br><br>mm<br>inch          | Unit number <sup>1)</sup>                                                     | Nominal dimensions |     |                |                |    |    |     |                |    |    | Bolt<br>size<br><br>mm<br>inch | Bearing number                                                      |
|------------------------------------------|-------------------------------------------------------------------------------|--------------------|-----|----------------|----------------|----|----|-----|----------------|----|----|--------------------------------|---------------------------------------------------------------------|
|                                          |                                                                               | H                  | J   | A <sub>2</sub> | A <sub>1</sub> | A  | N  | L   | A <sub>0</sub> | B  | S  |                                |                                                                     |
| 25<br>1 3/16<br>7/8<br>15/16<br>1        | UCFL305D1<br>UCFL305-013D1<br>UCFL305-014D1<br>UCFL305-015D1<br>UCFL305-100D1 | 150                | 113 | 16             | 13             | 29 | 19 | 80  | 39             | 38 | 15 | M16<br><br>5/8                 | UC305D1<br>UC305-013D1<br>UC305-014D1<br>UC305-015D1<br>UC305-100D1 |
| 30<br>1 1/16<br>1 1/8<br>1 3/16          | UCFL306D1<br>UCFL306-101D1<br>UCFL306-102D1<br>UCFL306-103D1                  | 180                | 134 | 18             | 15             | 32 | 23 | 90  | 44             | 43 | 17 | M20<br><br>3/4                 | UC306D1<br>UC306-101D1<br>UC306-102D1<br>UC306-103D1                |
| 35<br>1 1/4<br>1 5/16<br>1 3/8<br>1 7/16 | UCFL307D1<br>UCFL307-104D1<br>UCFL307-105D1<br>UCFL307-106D1<br>UCFL307-107D1 | 185                | 141 | 20             | 16             | 36 | 23 | 100 | 49             | 48 | 19 | M20<br><br>3/4                 | UC307D1<br>UC307-104D1<br>UC307-105D1<br>UC307-106D1<br>UC307-107D1 |
| 40<br>1 1/2<br>1 9/16                    | UCFL308D1<br>UCFL308-108D1<br>UCFL308-109D1                                   | 200                | 158 | 23             | 17             | 40 | 23 | 112 | 56             | 52 | 19 | M20<br><br>3/4                 | UC308D1<br>UC308-108D1<br>UC308-109D1                               |
| 45<br>1 5/8<br>1 11/16<br>1 3/4          | UCFL309D1<br>UCFL309-110D1<br>UCFL309-111D1<br>UCFL309-112D1                  | 230                | 177 | 25             | 18             | 44 | 25 | 125 | 60             | 57 | 22 | M22<br><br>7/8                 | UC309D1<br>UC309-110D1<br>UC309-111D1<br>UC309-112D1                |
| 50<br>1 13/16<br>1 7/8<br>1 15/16        | UCFL310D1<br>UCFL310-113D1<br>UCFL310-114D1<br>UCFL310-115D1                  | 240                | 187 | 28             | 19             | 48 | 25 | 140 | 67             | 61 | 22 | M22<br><br>7/8                 | UC310D1<br>UC310-113D1<br>UC310-114D1<br>UC310-115D1                |
| 55<br>2<br>2 1/16<br>2 1/8<br>2 3/16     | UCFL311D1<br>UCFL311-200D1<br>UCFL311-201D1<br>UCFL311-202D1<br>UCFL311-203D1 | 250                | 198 | 30             | 20             | 52 | 25 | 150 | 71             | 66 | 25 | M22<br><br>7/8                 | UC311D1<br>UC311-200D1<br>UC311-201D1<br>UC311-202D1<br>UC311-203D1 |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".  
Note: Please refer to page 36 for size of grease fitting.

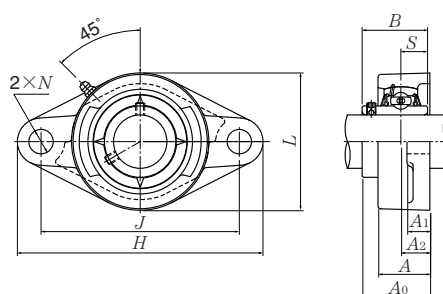


Cast dust cover type (Open end)  
C-UCFL...D1

Cast dust cover type (Close end)  
CM-UCFL...D1

| Housing<br>number | Unit number <sup>1)</sup><br>cast dust cover ty | Nominal dimensions              |                                   |                                   |                                   | Mass<br>(approx.) |       |
|-------------------|-------------------------------------------------|---------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------|-------|
|                   |                                                 | mm                              |                                   | inch                              |                                   | kg                | lb    |
|                   |                                                 | t                               | A <sub>5</sub>                    | L <sub>1</sub>                    | L <sub>2</sub>                    | UCFL              | C(CM) |
| FL305D1           | C(CM)-UCFL305D1                                 | 12                              | 56                                | 86                                | 40                                | 0.9               | 1.2   |
| FL305D1           | C(CM)-UCFL305-013D1                             |                                 |                                   |                                   |                                   |                   |       |
| FL305D1           | C(CM)-UCFL305-014D1                             | 15 <sup>5</sup> / <sub>32</sub> | 27 <sup>7</sup> / <sub>32</sub>   | 33 <sup>3</sup> / <sub>8</sub>    | 19 <sup>9</sup> / <sub>16</sub>   | 2.0               | 2.7   |
| FL305D1           | C(CM)-UCFL305-015D1                             |                                 |                                   |                                   |                                   |                   |       |
| FL305D1           | C(CM)-UCFL305-100D1                             |                                 |                                   |                                   |                                   |                   |       |
| FL306D1           | C(CM)-UCFL306D1                                 | 11                              | 60                                | 101                               | 45                                | 1.4               | 1.7   |
| FL306D1           | C(CM)-UCFL306-101D1                             |                                 |                                   |                                   |                                   |                   |       |
| FL306D1           | C(CM)-UCFL306-102D1                             | 7 <sup>7</sup> / <sub>16</sub>  | 23 <sup>3</sup> / <sub>8</sub>    | 33 <sup>31</sup> / <sub>32</sub>  | 125 <sup>25</sup> / <sub>32</sub> | 3.1               | 3.8   |
| FL306D1           | C(CM)-UCFL306-103D1                             |                                 |                                   |                                   |                                   |                   |       |
| FL307D1           | C(CM)-UCFL307D1                                 | 14                              | 68                                | 110                               | 50                                | 1.7               | 2.1   |
| FL307D1           | C(CM)-UCFL307-104D1                             |                                 |                                   |                                   |                                   |                   |       |
| FL307D1           | C(CM)-UCFL307-105D1                             | 35 <sup>5</sup> / <sub>64</sub> | 211 <sup>1</sup> / <sub>16</sub>  | 411 <sup>11</sup> / <sub>32</sub> | 131 <sup>31</sup> / <sub>32</sub> | 3.8               | 4.6   |
| FL307D1           | C(CM)-UCFL307-106D1                             |                                 |                                   |                                   |                                   |                   |       |
| FL307D1           | C(CM)-UCFL307-107D1                             |                                 |                                   |                                   |                                   |                   |       |
| FL308D1           | C(CM)-UCFL308D1                                 | 14                              | 76                                | 122                               | 56                                | 2.2               | 2.9   |
| FL308D1           | C(CM)-UCFL308-108D1                             | 35 <sup>5</sup> / <sub>64</sub> | 3                                 | 413 <sup>13</sup> / <sub>16</sub> | 27 <sup>7</sup> / <sub>32</sub>   | 4.9               | 6.4   |
| FL308D1           | C(CM)-UCFL308-109D1                             |                                 |                                   |                                   |                                   |                   |       |
| FL309D1           | C(CM)-UCFL309D1                                 | 14                              | 80                                | 135                               | 62                                | 3.0               | 3.8   |
| FL309D1           | C(CM)-UCFL309-110D1                             |                                 |                                   |                                   |                                   |                   |       |
| FL309D1           | C(CM)-UCFL309-111D1                             | 35 <sup>5</sup> / <sub>64</sub> | 35 <sup>5</sup> / <sub>32</sub>   | 55 <sup>5</sup> / <sub>16</sub>   | 27 <sup>7</sup> / <sub>16</sub>   | 6.6               | 8.4   |
| FL309D1           | C(CM)-UCFL309-112D1                             |                                 |                                   |                                   |                                   |                   |       |
| FL310D1           | C(CM)-UCFL310D1                                 | 15                              | 88                                | 152                               | 70                                | 4.1               | 5.0   |
| FL310D1           | C(CM)-UCFL310-113D1                             |                                 |                                   |                                   |                                   |                   |       |
| FL310D1           | C(CM)-UCFL310-114D1                             | 19 <sup>9</sup> / <sub>32</sub> | 315 <sup>15</sup> / <sub>32</sub> | 531 <sup>31</sup> / <sub>32</sub> | 23 <sup>3</sup> / <sub>4</sub>    | 9.0               | 11    |
| FL310D1           | C(CM)-UCFL310-115D1                             |                                 |                                   |                                   |                                   |                   |       |
| FL311D1           | C(CM)-UCFL311D1                                 | 15                              | 92                                | 162                               | 75                                | 4.6               | 5.9   |
| FL311D1           | C(CM)-UCFL311-200D1                             |                                 |                                   |                                   |                                   |                   |       |
| FL311D1           | C(CM)-UCFL311-201D1                             | 19 <sup>9</sup> / <sub>32</sub> | 35 <sup>5</sup> / <sub>8</sub>    | 63 <sup>3</sup> / <sub>8</sub>    | 215 <sup>15</sup> / <sub>16</sub> | 10                | 13    |
| FL311D1           | C(CM)-UCFL311-202D1                             |                                 |                                   |                                   |                                   |                   |       |
| FL311D1           | C(CM)-UCFL311-203D1                             |                                 |                                   |                                   |                                   |                   |       |

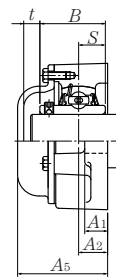
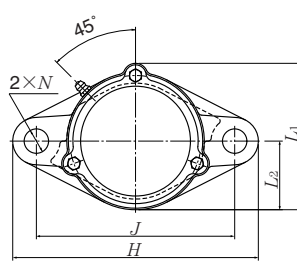
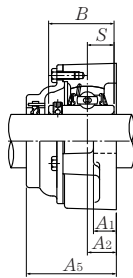
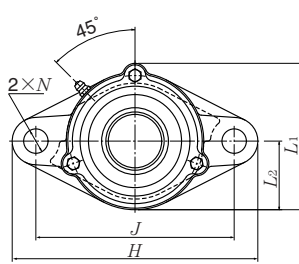
# Rhombus flanged units cast housing Set screw type



| Shaft<br>dia.                                                                                                  | Unit number <sup>1)</sup>                                                     | Nominal dimensions               |                                  |                                 |                                 |                                 |                                |                                 |                                 |          |          | Bolt<br>size                  | Bearing number                                                      |
|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------|----------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------------|---------------------------------|---------------------------------|----------|----------|-------------------------------|---------------------------------------------------------------------|
|                                                                                                                |                                                                               | mm                               |                                  |                                 |                                 |                                 | inch                           |                                 |                                 |          |          |                               |                                                                     |
|                                                                                                                |                                                                               | <i>H</i>                         | <i>J</i>                         | <i>A</i> <sub>2</sub>           | <i>A</i> <sub>1</sub>           | <i>A</i>                        | <i>N</i>                       | <i>L</i>                        | <i>A</i> <sub>0</sub>           | <i>B</i> | <i>S</i> |                               |                                                                     |
| 60<br>2¼<br>2 <sup>5</sup> / <sub>16</sub><br>2 <sup>3</sup> / <sub>8</sub><br>2 <sup>7</sup> / <sub>16</sub>  | UCFL312D1<br>UCFL312-204D1<br>UCFL312-205D1<br>UCFL312-206D1<br>UCFL312-207D1 | 270                              | 212                              | 33                              | 22                              | 56                              | 31                             | 160                             | 78                              | 71       | 26       | M27                           | UC312D1<br>UC312-204D1<br>UC312-205D1<br>UC312-206D1<br>UC312-207D1 |
|                                                                                                                |                                                                               | 10 <sup>5</sup> / <sub>8</sub>   | 8 <sup>11</sup> / <sub>32</sub>  | 1 <sup>19</sup> / <sub>64</sub> | 7 <sup>7</sup> / <sub>8</sub>   | 2 <sup>7</sup> / <sub>32</sub>  | 1 <sup>7</sup> / <sub>32</sub> | 6 <sup>5</sup> / <sub>16</sub>  | 3 <sup>5</sup> / <sub>64</sub>  | 2.7953   | 1.024    | 1                             |                                                                     |
| 65<br>2½<br>2 <sup>9</sup> / <sub>16</sub>                                                                     | UCFL313D1<br>UCFL313-208D1<br>UCFL313-209D1                                   | 295                              | 240                              | 33                              | 25                              | 58                              | 31                             | 175                             | 78                              | 75       | 30       | M27                           | UC313D1<br>UC313-208D1<br>UC313-209D1                               |
|                                                                                                                |                                                                               | 11 <sup>5</sup> / <sub>8</sub>   | 9 <sup>29</sup> / <sub>64</sub>  | 1 <sup>19</sup> / <sub>64</sub> | 3 <sup>1</sup> / <sub>32</sub>  | 2 <sup>9</sup> / <sub>32</sub>  | 1 <sup>7</sup> / <sub>32</sub> | 6 <sup>7</sup> / <sub>8</sub>   | 3 <sup>5</sup> / <sub>64</sub>  | 2.9528   | 1.181    | 1                             |                                                                     |
| 70<br>2 <sup>5</sup> / <sub>8</sub><br>2 <sup>11</sup> / <sub>16</sub><br>2¾                                   | UCFL314D1<br>UCFL314-210D1<br>UCFL314-211D1<br>UCFL314-212D1                  | 315                              | 250                              | 36                              | 28                              | 61                              | 35                             | 185                             | 81                              | 78       | 33       | M30                           | UC314D1<br>UC314-210D1<br>UC314-211D1<br>UC314-212D1                |
|                                                                                                                |                                                                               | 12 <sup>13</sup> / <sub>32</sub> | 9 <sup>27</sup> / <sub>32</sub>  | 1 <sup>27</sup> / <sub>64</sub> | 1 <sup>3</sup> / <sub>32</sub>  | 2 <sup>13</sup> / <sub>32</sub> | 1 <sup>3</sup> / <sub>8</sub>  | 7 <sup>9</sup> / <sub>32</sub>  | 3 <sup>3</sup> / <sub>16</sub>  | 3.0709   | 1.299    | 1 <sup>1</sup> / <sub>8</sub> |                                                                     |
| 75<br>2 <sup>13</sup> / <sub>16</sub><br>2 <sup>7</sup> / <sub>8</sub><br>2 <sup>15</sup> / <sub>16</sub><br>3 | UCFL315D1<br>UCFL315-213D1<br>UCFL315-214D1<br>UCFL315-215D1<br>UCFL315-300D1 | 320                              | 260                              | 39                              | 30                              | 66                              | 35                             | 195                             | 89                              | 82       | 32       | M30                           | UC315D1<br>UC315-213D1<br>UC315-214D1<br>UC315-215D1<br>UC315-300D1 |
|                                                                                                                |                                                                               | 12 <sup>19</sup> / <sub>32</sub> | 10 <sup>15</sup> / <sub>64</sub> | 1 <sup>17</sup> / <sub>32</sub> | 1 <sup>3</sup> / <sub>16</sub>  | 2 <sup>19</sup> / <sub>32</sub> | 1 <sup>3</sup> / <sub>8</sub>  | 7 <sup>11</sup> / <sub>16</sub> | 3 <sup>1</sup> / <sub>2</sub>   | 3.2283   | 1.260    | 1 <sup>1</sup> / <sub>8</sub> |                                                                     |
| 80<br>3 <sup>1</sup> / <sub>16</sub><br>3 <sup>3</sup> / <sub>8</sub><br>3 <sup>3</sup> / <sub>16</sub>        | UCFL316D1<br>UCFL316-301D1<br>UCFL316-302D1<br>UCFL316-303D1                  | 355                              | 285                              | 38                              | 32                              | 68                              | 38                             | 210                             | 90                              | 86       | 34       | M33                           | UC316D1<br>UC316-301D1<br>UC316-302D1<br>UC316-303D1                |
|                                                                                                                |                                                                               | 13 <sup>31</sup> / <sub>32</sub> | 11 <sup>7</sup> / <sub>32</sub>  | 1½                              | 1¼                              | 2 <sup>11</sup> / <sub>16</sub> | 1½                             | 8 <sup>9</sup> / <sub>32</sub>  | 3 <sup>35</sup> / <sub>64</sub> | 3.3858   | 1.339    | 1¼                            |                                                                     |
| 85<br>3¼<br>3 <sup>5</sup> / <sub>16</sub><br>3 <sup>7</sup> / <sub>16</sub>                                   | UCFL317D1<br>UCFL317-304D1<br>UCFL317-305D1<br>UCFL317-307D1                  | 370                              | 300                              | 44                              | 32                              | 74                              | 38                             | 220                             | 100                             | 96       | 40       | M33                           | UC317D1<br>UC317-304D1<br>UC317-305D1<br>UC317-307D1                |
|                                                                                                                |                                                                               | 14 <sup>9</sup> / <sub>16</sub>  | 11 <sup>13</sup> / <sub>16</sub> | 1 <sup>47</sup> / <sub>64</sub> | 1¼                              | 2 <sup>29</sup> / <sub>32</sub> | 1½                             | 8 <sup>21</sup> / <sub>32</sub> | 3 <sup>15</sup> / <sub>16</sub> | 3.7795   | 1.575    | 1¼                            |                                                                     |
| 90<br>3 <sup>7</sup> / <sub>16</sub><br>3½                                                                     | UCFL318D1<br>UCFL318-307D1<br>UCFL318-308D1                                   | 385                              | 315                              | 44                              | 36                              | 76                              | 38                             | 235                             | 100                             | 96       | 40       | M33                           | UC318D1<br>UC318-307D1<br>UC318-308D1                               |
|                                                                                                                |                                                                               | 15 <sup>5</sup> / <sub>32</sub>  | 12 <sup>13</sup> / <sub>32</sub> | 1 <sup>47</sup> / <sub>64</sub> | 1 <sup>13</sup> / <sub>32</sub> | 3                               | 1½                             | 9¼                              | 3 <sup>15</sup> / <sub>16</sub> | 3.7795   | 1.575    | 1¼                            |                                                                     |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

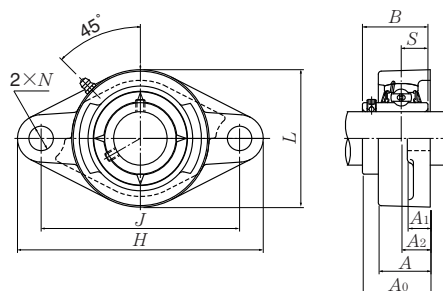


Cast dust cover type (Open end)  
C-UCFL...D1

Cast dust cover type (Close end)  
CM-UCFL...D1

| Housing<br>number | Unit number <sup>1)</sup><br>cast dust cover type | Nominal dimensions |                |                |                | Mass<br>(approx.) |       |
|-------------------|---------------------------------------------------|--------------------|----------------|----------------|----------------|-------------------|-------|
|                   |                                                   | mm                 |                | inch           |                | kg                | lb    |
|                   |                                                   | t                  | A <sub>5</sub> | L <sub>1</sub> | L <sub>2</sub> | UCFL              | C(CM) |
| FL312D1           | C(CM)-UCFL312D1                                   | 16                 | 100            | 175            | 80             | 5.7               | 7.7   |
| FL312D1           | C(CM)-UCFL312-204D1                               |                    |                |                |                |                   |       |
| FL312D1           | C(CM)-UCFL312-205D1                               | 5/8                | 3 15/16        | 6 7/8          | 3 5/32         | 13                | 17    |
| FL312D1           | C(CM)-UCFL312-206D1                               |                    |                |                |                |                   |       |
| FL312D1           | C(CM)-UCFL312-207D1                               |                    |                |                |                |                   |       |
| FL313D1           | C(CM)-UCFL313D1                                   | 19                 | 103            | 189            | 88             | 7.6               | 9.9   |
| FL313D1           | C(CM)-UCFL313-208D1                               | 3/4                | 4 1/16         | 7 7/16         | 3 15/32        | 17                | 22    |
| FL313D1           | C(CM)-UCFL313-209D1                               |                    |                |                |                |                   |       |
| FL314D1           | C(CM)-UCFL314D1                                   | 19                 | 106            | 198            | 92             | 8.6               | 11    |
| FL314D1           | C(CM)-UCFL314-210D1                               |                    |                |                |                |                   |       |
| FL314D1           | C(CM)-UCFL314-211D1                               | 3/4                | 4 3/16         | 7 25/32        | 3 5/8          | 19                | 24    |
| FL314D1           | C(CM)-UCFL314-212D1                               |                    |                |                |                |                   |       |
| FL315D1           | C(CM)-UCFL315D1                                   | 19                 | 114            | 210            | 98             | 9.9               | 12    |
| FL315D1           | C(CM)-UCFL315-213D1                               |                    |                |                |                |                   |       |
| FL315D1           | C(CM)-UCFL315-214D1                               | 3/4                | 4 1/2          | 8 9/32         | 3 27/32        | 22                | 26    |
| FL315D1           | C(CM)-UCFL315-215D1                               |                    |                |                |                |                   |       |
| FL315D1           | C(CM)-UCFL315-300D1                               |                    |                |                |                |                   |       |
| FL316D1           | C(CM)-UCFL316D1                                   | 19                 | 116            | 222            | 105            | 13                | 16    |
| FL316D1           | C(CM)-UCFL316-301D1                               |                    |                |                |                |                   |       |
| FL316D1           | C(CM)-UCFL316-302D1                               | 3/4                | 4 9/16         | 8 3/4          | 4 1/8          | 29                | 35    |
| FL316D1           | C(CM)-UCFL316-303D1                               |                    |                |                |                |                   |       |
| FL317D1           | C(CM)-UCFL317D1                                   | 19                 | 127            | 234            | 110            | 15                | 18    |
| FL317D1           | C(CM)-UCFL317-304D1                               |                    |                |                |                |                   |       |
| FL317D1           | C(CM)-UCFL317-305D1                               | 3/4                | 5              | 9 7/32         | 4 11/32        | 33                | 40    |
| FL317D1           | C(CM)-UCFL317-307D1                               |                    |                |                |                |                   |       |
| FL318D1           | C(CM)-UCFL318D1                                   | 21                 | 129            | 247            | 118            | 17                | 21    |
| FL318D1           | C(CM)-UCFL318-307D1                               | 13/16              | 5 3/32         | 9 23/32        | 4 21/32        | 37                | 46    |
| FL318D1           | C(CM)-UCFL318-308D1                               |                    |                |                |                |                   |       |

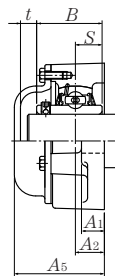
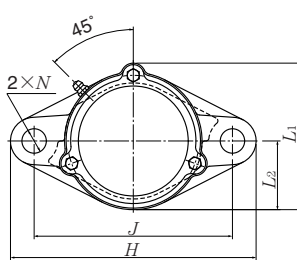
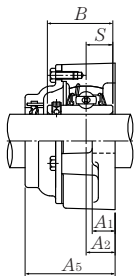
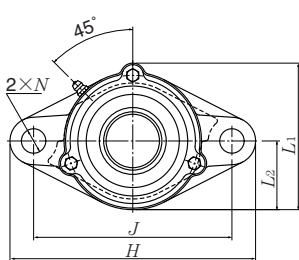
# Rhombus flanged units cast housing Set screw type



| Shaft<br>dia.                                                                                                   | Unit number <sup>1)</sup>                                                     | Nominal dimensions |          |                       |                       |          |          |          |                       |          |          | Bolt<br>size | Bearing number                                                      |
|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------|----------|-----------------------|-----------------------|----------|----------|----------|-----------------------|----------|----------|--------------|---------------------------------------------------------------------|
|                                                                                                                 |                                                                               | mm                 |          |                       |                       |          | inch     |          |                       |          |          |              |                                                                     |
|                                                                                                                 |                                                                               | <i>H</i>           | <i>J</i> | <i>A</i> <sub>2</sub> | <i>A</i> <sub>1</sub> | <i>A</i> | <i>N</i> | <i>L</i> | <i>A</i> <sub>0</sub> | <i>B</i> | <i>S</i> |              |                                                                     |
| 95<br>3 <sup>5</sup> / <sub>8</sub><br>3 <sup>11</sup> / <sub>16</sub><br>3 <sup>3</sup> / <sub>4</sub>         | UCFL319D1<br>UCFL319-310D1<br>UCFL319-311D1<br>UCFL319-312D1                  | 405                | 330      | 59                    | 40                    | 94       | 41       | 250      | 121                   | 103      | 41       | M36          | UC319D1<br>UC319-310D1<br>UC319-311D1<br>UC319-312D1                |
| 100<br>3 <sup>13</sup> / <sub>16</sub><br>3 <sup>7</sup> / <sub>8</sub><br>3 <sup>15</sup> / <sub>16</sub><br>4 | UCFL320D1<br>UCFL320-313D1<br>UCFL320-314D1<br>UCFL320-315D1<br>UCFL320-400D1 | 440                | 360      | 59                    | 40                    | 94       | 44       | 270      | 125                   | 108      | 42       | M39          | UC320D1<br>UC320-313D1<br>UC320-314D1<br>UC320-315D1<br>UC320-400D1 |
| 105                                                                                                             | UCFL321D1                                                                     | 440                | 360      | 59                    | 40                    | 94       | 44       | 270      | 127                   | 112      | 44       | M39          | UC321D1                                                             |
| 110                                                                                                             | UCFL322D1                                                                     | 470                | 390      | 60                    | 42                    | 96       | 44       | 300      | 131                   | 117      | 46       | M39          | UC322D1                                                             |
| 120                                                                                                             | UCFL324D1                                                                     | 520                | 430      | 65                    | 48                    | 110      | 47       | 330      | 140                   | 126      | 51       | M42          | UC324D1                                                             |
| 130                                                                                                             | UCFL326D1                                                                     | 550                | 460      | 65                    | 50                    | 115      | 47       | 360      | 146                   | 135      | 54       | M42          | UC326D1                                                             |
| 140                                                                                                             | UCFL328D1                                                                     | 600                | 500      | 75                    | 60                    | 125      | 51       | 400      | 161                   | 145      | 59       | M45          | UC328D1                                                             |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: 1) Please refer to page 36 for size of grease fitting.

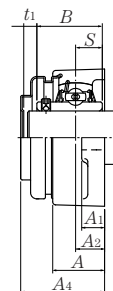
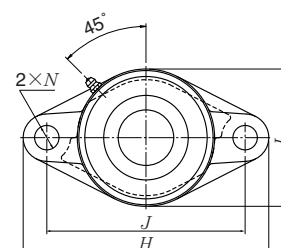
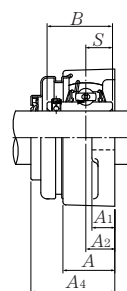
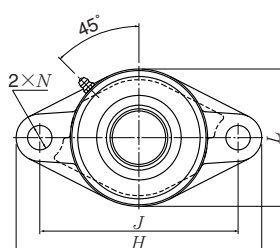
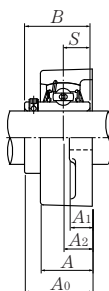
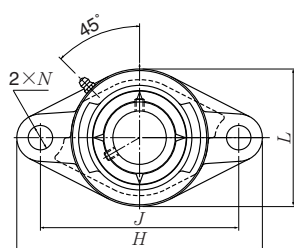


Cast dust cover type (Open end)  
C-UCFL...D1

Cast dust cover type (Close end)  
CM-UCFL...D1

| Housing<br>number | Unit number <sup>1)</sup><br>cast dust cover type | Nominal dimensions |                 |                  |                  | Mass<br>(approx.) |       |
|-------------------|---------------------------------------------------|--------------------|-----------------|------------------|------------------|-------------------|-------|
|                   |                                                   | mm                 |                 | inch             |                  | kg                | lb    |
|                   |                                                   | t                  | A <sub>5</sub>  | L <sub>1</sub>   | L <sub>2</sub>   | UCFL              | C(CM) |
| FL319D1           | C(CM)-UCFL319D1                                   | 20                 | 149             | 260              | 125              | 22                | 26    |
| FL319D1           | C(CM)-UCFL319-310D1                               |                    |                 |                  |                  |                   |       |
| FL319D1           | C(CM)-UCFL319-311D1                               | $25\frac{1}{32}$   | $5\frac{7}{8}$  | $10\frac{1}{4}$  | $4\frac{29}{32}$ | 49                | 57    |
| FL319D1           | C(CM)-UCFL319-312D1                               |                    |                 |                  |                  |                   |       |
| FL320D1           | C(CM)-UCFL320D1                                   | 20                 | 154             | 280              | 135              | 26                | 31    |
| FL320D1           | C(CM)-UCFL320-313D1                               |                    |                 |                  |                  |                   |       |
| FL320D1           | C(CM)-UCFL320-314D1                               | $25\frac{1}{32}$   | $6\frac{1}{16}$ | $11\frac{1}{32}$ | $5\frac{5}{16}$  | 57                | 68    |
| FL320D1           | C(CM)-UCFL320-315D1                               |                    |                 |                  |                  |                   |       |
| FL320D1           | C(CM)-UCFL320-400D1                               |                    |                 |                  |                  |                   |       |
| FL321D1           | C(CM)-UCFL321D1                                   | 20                 | 156             | 287              | 135              | 27                | 32    |
| FL322D1           | C(CM)-UCFL322D1                                   | 20                 | 160             | 315              | 150              | 34                | 39    |
| FL324D1           | C(CM)-UCFL324D1                                   | 22                 | 172             | 342              | 165              | 48                | 52    |
| FL326D1           | C(CM)-UCFL326D1                                   | 22                 | 178             | 376              | 180              | 58                | 64    |
| FL328D1           | C(CM)-UCFL328D1                                   | 21                 | 192             | 410              | 200              | 81                | 90    |

# Rhombus flanged units cast housing Set screw type



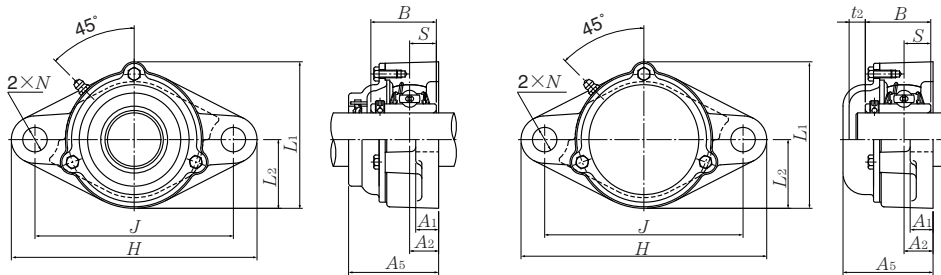
Press steel dust cover type (Open end)  
S-UCFLX...D1

Press steel dust cover type (Close end)  
SM-UCFLX...D1

| Shaft<br>dia.                                                                                                                                     | Unit number <sup>1)</sup>                                                                                        | Nominal dimensions |          |                       |                       |          |          |          |                       |          |          | Bolt<br>size | Bearing number                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------|----------|-----------------------|-----------------------|----------|----------|----------|-----------------------|----------|----------|--------------|----------------------------------------------------------------------------|
|                                                                                                                                                   |                                                                                                                  | mm                 |          |                       |                       |          | inch     |          |                       |          |          |              |                                                                            |
|                                                                                                                                                   |                                                                                                                  | <i>H</i>           | <i>J</i> | <i>A</i> <sub>2</sub> | <i>A</i> <sub>1</sub> | <i>A</i> | <i>N</i> | <i>L</i> | <i>A</i> <sub>0</sub> | <i>B</i> | <i>S</i> | mm<br>inch   |                                                                            |
| <b>25</b><br>13 <sup>1</sup> / <sub>16</sub><br>7 <sup>7</sup> / <sub>8</sub><br>15 <sup>15</sup> / <sub>16</sub><br><b>1</b>                     | <b>UCFLX05D1</b><br><b>UCFLX05-013D1</b><br><b>UCFLX05-014D1</b><br><b>UCFLX05-015D1</b><br><b>UCFLX05-100D1</b> | 141                | 117      | 18                    | 13                    | 30       | 12       | 83       | 40.2                  | 38.1     | 15.9     | M10          | <b>UCX05D1</b><br>UCX05-013D1<br>UCX05-014D1<br>UCX05-015D1<br>UCX05-100D1 |
| <b>30</b><br>1 <sup>1</sup> / <sub>16</sub><br>1 <sup>1</sup> / <sub>8</sub><br>1 <sup>3</sup> / <sub>16</sub><br>1 <sup>1</sup> / <sub>4</sub>   | <b>UCFLX06D1</b><br><b>UCFLX06-101D1</b><br><b>UCFLX06-102D1</b><br><b>UCFLX06-103D1</b><br><b>UCFLX06-104D1</b> | 156                | 130      | 19                    | 15                    | 34       | 16       | 95       | 44.4                  | 42.9     | 17.5     | M14          | <b>UCX06D1</b><br>UCX06-101D1<br>UCX06-102D1<br>UCX06-103D1<br>UC207-104D1 |
| <b>35</b><br>1 <sup>5</sup> / <sub>16</sub><br>1 <sup>3</sup> / <sub>8</sub><br>1 <sup>7</sup> / <sub>16</sub>                                    | <b>UCFLX07D1</b><br><b>UCFLX07-105D1</b><br><b>UCFLX07-106D1</b><br><b>UCFLX07-107D1</b>                         | 171                | 144      | 21                    | 16                    | 38       | 16       | 105      | 51.2                  | 49.2     | 19       | M14          | <b>UCX07D1</b><br>UCX07-105D1<br>UCX07-106D1<br>UCX07-107D1                |
| <b>40</b><br>1 <sup>1</sup> / <sub>2</sub><br>1 <sup>9</sup> / <sub>16</sub>                                                                      | <b>UCFLX08D1</b><br><b>UCFLX08-108D1</b><br><b>UCFLX08-109D1</b>                                                 | 179                | 148      | 22                    | 16                    | 40       | 16       | 111      | 52.2                  | 49.2     | 19       | M14          | <b>UCX08D1</b><br>UCX08-108D1<br>UCX08-109D1                               |
| <b>45</b><br>1 <sup>5</sup> / <sub>8</sub><br>1 <sup>11</sup> / <sub>16</sub><br>1 <sup>3</sup> / <sub>4</sub><br>1 <sup>13</sup> / <sub>16</sub> | <b>UCFLX09D1</b><br><b>UCFLX09-110D1</b><br><b>UCFLX09-111D1</b><br><b>UCFLX09-112D1</b><br><b>UCFLX09-113D1</b> | 189                | 157      | 23                    | 16                    | 40       | 16       | 116      | 55.6                  | 51.6     | 19       | M14          | <b>UCX09D1</b><br>UCX09-110D1<br>UCX09-111D1<br>UCX09-112D1<br>UC210-113D1 |
| <b>50</b><br>1 <sup>7</sup> / <sub>8</sub><br>1 <sup>15</sup> / <sub>16</sub><br><b>2</b>                                                         | <b>UCFLX10D1</b><br><b>UCFLX10-114D1</b><br><b>UCFLX10-115D1</b><br><b>UCFLX10-200D1</b>                         | 216                | 184      | 26                    | 18                    | 44       | 19       | 133      | 59.4                  | 55.6     | 22.2     | M16          | <b>UCX10D1</b><br>UCX10-114D1<br>UCX10-115D1<br>UC211-200D1                |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.



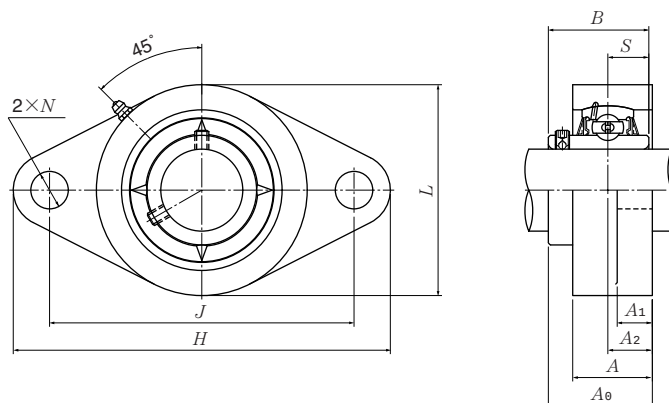
Cast dust cover type (Open end)  
C-UCFLX...D1

Cast dust cover type (Close end)  
CM-UCFLX...D1

| Housing<br>number | Unit number <sup>1)</sup><br>pressed steel dust<br>cover type | Unit number <sup>1)</sup><br>cast dust cover type | Nominal dimensions |                |                |                |                |                | Mass<br>(approx.) |       |       |
|-------------------|---------------------------------------------------------------|---------------------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|-------------------|-------|-------|
|                   |                                                               |                                                   | mm                 |                |                | inch           |                |                | UCFLX             | S(SM) | C(CM) |
|                   |                                                               |                                                   | t <sub>1</sub>     | t <sub>2</sub> | A <sub>4</sub> | A <sub>5</sub> | L <sub>1</sub> | L <sub>2</sub> |                   |       |       |
| FLX05D1           | S(SM)-UCFLX05D1                                               | C(CM)-UCFLX05D1                                   | 7                  | 11             | 49             | 56             | 86             | 41.5           | 1.0               | 1.0   | 1.2   |
| FLX05D1           | S(SM)-UCFLX05-013D1                                           | C(CM)-UCFLX05-013D1                               |                    |                |                |                |                |                |                   |       |       |
| FLX05D1           | S(SM)-UCFLX05-014D1                                           | C(CM)-UCFLX05-014D1                               | 9/32               | 7/16           | 1 15/16        | 2 7/32         | 3 3/8          | 1 5/8          | 2.2               | 2.2   | 2.7   |
| FLX05D1           | S(SM)-UCFLX05-015D1                                           | C(CM)-UCFLX05-015D1                               |                    |                |                |                |                |                |                   |       |       |
| FLX05D1           | S(SM)-UCFLX05-100D1                                           | C(CM)-UCFLX05-100D1                               |                    |                |                |                |                |                |                   |       |       |
| FLX06D1           | S(SM)-UCFLX06D1                                               | C(CM)-UCFLX06D1                                   | 8                  | 10             | 55             | 59             | 98.5           | 47.5           | 1.5               | 1.6   | 1.8   |
| FLX06D1           | S(SM)-UCFLX06-101D1                                           | C(CM)-UCFLX06-101D1                               |                    |                |                |                |                |                |                   |       |       |
| FLX06D1           | S(SM)-UCFLX06-102D1                                           | C(CM)-UCFLX06-102D1                               | 5/16               | 25/64          | 2 5/32         | 2 5/16         | 3 7/8          | 1 7/8          | 3.3               | 3.5   | 4.0   |
| FLX06D1           | S(SM)-UCFLX06-103D1                                           | C(CM)-UCFLX06-103D1                               |                    |                |                |                |                |                |                   |       |       |
| FLX06D1           | S(SM)-UCFLX06-104D1                                           | C(CM)-UCFLX06-104D1                               |                    |                |                |                |                |                |                   |       |       |
| FLX07D1           | S(SM)-UCFLX07D1                                               | C(CM)-UCFLX07D1                                   | 8                  | 9              | 62             | 66             | 108.5          | 52.5           | 1.8               | 1.9   | 2.2   |
| FLX07D1           | S(SM)-UCFLX07-105D1                                           | C(CM)-UCFLX07-105D1                               |                    |                |                |                |                |                |                   |       |       |
| FLX07D1           | S(SM)-UCFLX07-106D1                                           | C(CM)-UCFLX07-106D1                               | 5/16               | 23/64          | 2 7/16         | 2 19/32        | 4 9/32         | 2 1/16         | 4.0               | 4.2   | 4.9   |
| FLX07D1           | S(SM)-UCFLX07-107D1                                           | C(CM)-UCFLX07-107D1                               |                    |                |                |                |                |                |                   |       |       |
| FLX08D1           | S(SM)-UCFLX08D1                                               | C(CM)-UCFLX08D1                                   | 8                  | 12             | 63             | 70             | 114.5          | 55.5           | 2.0               | 2.1   | 2.4   |
| FLX08D1           | S(SM)-UCFLX08-108D1                                           | C(CM)-UCFLX08-108D1                               | 5/16               | 15/32          | 2 15/32        | 2 3/4          | 4 1/2          | 2 3/16         | 4.4               | 4.6   | 5.3   |
| FLX08D1           | S(SM)-UCFLX08-109D1                                           | C(CM)-UCFLX08-109D1                               |                    |                |                |                |                |                |                   |       |       |
| FLX09D1           | S(SM)-UCFLX09D1                                               | C(CM)-UCFLX09D1                                   | 7                  | 12             | 65.5           | 73             | 119.5          | 58             | 2.2               | 2.3   | 2.7   |
| FLX09D1           | S(SM)-UCFLX09-110D1                                           | C(CM)-UCFLX09-110D1                               |                    |                |                |                |                |                |                   |       |       |
| FLX09D1           | S(SM)-UCFLX09-111D1                                           | C(CM)-UCFLX09-111D1                               | 9/32               | 15/32          | 2 19/32        | 2 7/8          | 4 23/32        | 2 9/32         | 4.9               | 5.1   | 6.0   |
| FLX09D1           | S(SM)-UCFLX09-112D1                                           | C(CM)-UCFLX09-112D1                               |                    |                |                |                |                |                |                   |       |       |
| FLX09D1           | S(SM)-UCFLX09-113D1                                           | C(CM)-UCFLX09-113D1                               |                    |                |                |                |                |                |                   |       |       |
| FLX10D1           | S(SM)-UCFLX10D1                                               | C(CM)-UCFLX10D1                                   | 9                  | 11             | 71             | 76             | 133.5          | 66.5           | 3.0               | 3.2   | 3.6   |
| FLX10D1           | S(SM)-UCFLX10-114D1                                           | C(CM)-UCFLX10-114D1                               |                    |                |                |                |                |                |                   |       |       |
| FLX10D1           | S(SM)-UCFLX10-115D1                                           | C(CM)-UCFLX10-115D1                               | 23/64              | 7/16           | 2 25/32        | 3              | 5 1/4          | 2 5/8          | 6.6               | 7.1   | 7.9   |
| FLX10D1           | S(SM)-UCFLX10-200D1                                           | C(CM)-UCFLX10-200D1                               |                    |                |                |                |                |                |                   |       |       |



# Rhombus flanged units (Steel series) Set screw type



| Shaft<br>dia.<br><br>mm | Unit number <sup>1)</sup> | Nominal dimensions |     |                |                |      |    |     |                |      |      | Bolt<br>size<br><br>mm | Bearing number |
|-------------------------|---------------------------|--------------------|-----|----------------|----------------|------|----|-----|----------------|------|------|------------------------|----------------|
|                         |                           | H                  | J   | A <sub>2</sub> | A <sub>1</sub> | A    | N  | L   | A <sub>0</sub> | B    | S    |                        |                |
| 12                      | UCFLG201D1                | 113                | 90  | 15             | 11             | 25.5 | 12 | 60  | 33.3           | 31   | 12.7 | M10                    | UC201D1        |
| 15                      | UCFLG202D1                | 113                | 90  | 15             | 11             | 25.5 | 12 | 60  | 33.3           | 31   | 12.7 | M10                    | UC202D1        |
| 17                      | UCFLG203D1                | 113                | 90  | 15             | 11             | 25.5 | 12 | 60  | 33.3           | 31   | 12.7 | M10                    | UC203D1        |
| 20                      | UCFLG204D1                | 113                | 90  | 15             | 11             | 25.5 | 12 | 60  | 33.3           | 31   | 12.7 | M10                    | UC204D1        |
| 25                      | UCFLG205D1                | 130                | 99  | 16             | 13             | 27   | 16 | 68  | 35.8           | 34.1 | 14.3 | M14                    | UC205D1        |
| 30                      | UCFLG206D1                | 148                | 117 | 18             | 13             | 31   | 16 | 80  | 40.2           | 38.1 | 15.9 | M14                    | UC206D1        |
| 35                      | UCFLG207D1                | 161                | 130 | 19             | 15             | 34   | 16 | 90  | 44.4           | 42.9 | 17.5 | M14                    | UC207D1        |
| 40                      | UCFLG208D1                | 175                | 144 | 21             | 15             | 36   | 16 | 100 | 51.2           | 49.2 | 19   | M14                    | UC208D1        |
| 45                      | UCFLG209D1                | 188                | 148 | 22             | 16             | 38   | 19 | 108 | 52.2           | 49.2 | 19   | M16                    | UC209D1        |
| 50                      | UCFLG210D1                | 197                | 157 | 22             | 16             | 40   | 19 | 115 | 54.6           | 51.6 | 19   | M16                    | UC210D1        |
| 55                      | UCFLG211D1                | 224                | 184 | 25             | 18             | 43   | 19 | 130 | 58.4           | 55.6 | 22.2 | M16                    | UC211D1        |
| 60                      | UCFLG212D1                | 250                | 202 | 29             | 18             | 48   | 23 | 140 | 68.7           | 65.1 | 25.4 | M20                    | UC212D1        |
| 65                      | UCFLG213D1                | 258                | 210 | 30             | 22             | 50   | 23 | 155 | 69.7           | 65.1 | 25.4 | M20                    | UC213D1        |
| 70                      | UCFLG214D1                | 265                | 216 | 31             | 22             | 54   | 23 | 160 | 75.4           | 74.6 | 30.2 | M20                    | UC214D1        |
| 75                      | UCFLG215D1                | 275                | 225 | 34             | 22             | 56   | 23 | 165 | 78.5           | 77.8 | 33.3 | M20                    | UC215D1        |
| 80                      | UCFLG216D1                | 290                | 233 | 34             | 22             | 58   | 25 | 180 | 83.3           | 82.6 | 33.3 | M22                    | UC216D1        |
| 85                      | UCFLG217D1                | 305                | 248 | 36             | 24             | 63   | 25 | 190 | 87.6           | 85.7 | 34.1 | M22                    | UC217D1        |
| 90                      | UCFLG218D1                | 320                | 265 | 40             | 24             | 68   | 25 | 205 | 96.3           | 96   | 39.7 | M22                    | UC218D1        |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

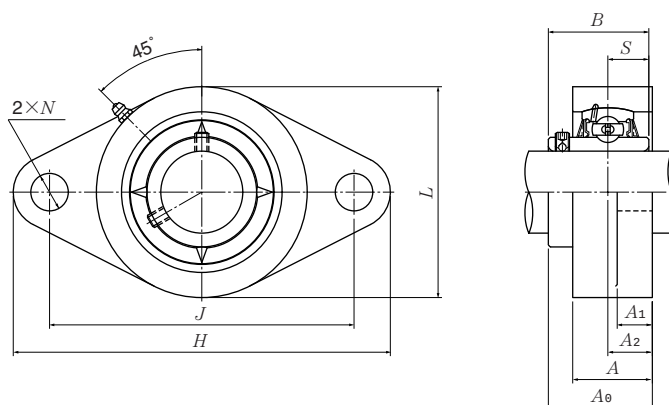
Note: 1) Please refer to page 36 for size of grease fitting.

2) Please refer to page 414-419 for inch series bearings.

| Housing <sup>1)</sup><br>number | Mass<br>(approx.)<br><br>kg |
|---------------------------------|-----------------------------|
| FLG204D1                        | 0.5                         |
| FLG204D1                        | 0.5                         |
| FLG204D1                        | 0.5                         |
| FLG204D1                        | 0.5                         |
| FLG205D1                        | 0.7                         |
| FLG206D1                        | 1.1                         |
| FLG207D1                        | 1.4                         |
| FLG208D1                        | 1.8                         |
| FLG209D1                        | 2.4                         |
| FLG210D1                        | 2.6                         |
| FLG211D1                        | 3.6                         |
| FLG212D1                        | 4.7                         |
| FLG213D1                        | 6.0                         |
| FLG214D1                        | 6.6                         |
| FLG215D1                        | 7.2                         |
| FLG216D1                        | 8.8                         |
| FLG217D1                        | 11                          |
| FLG218D1                        | 13                          |

# Rhombus flanged units (Steel series)

## Set screw type



| Shaft<br>dia.<br><br>mm | Unit number <sup>1)</sup> | Nominal dimensions |     |                |                |     |    |     |                |     |    | Bolt<br>size<br><br>mm | Bearing number |
|-------------------------|---------------------------|--------------------|-----|----------------|----------------|-----|----|-----|----------------|-----|----|------------------------|----------------|
|                         |                           | H                  | J   | A <sub>2</sub> | A <sub>1</sub> | A   | N  | L   | A <sub>0</sub> | B   | S  |                        |                |
| 25                      | UCFLG305D1                | 150                | 113 | 16             | 13             | 29  | 19 | 80  | 39             | 38  | 15 | M16                    | UC305D1        |
| 30                      | UCFLG306D1                | 180                | 134 | 18             | 15             | 32  | 23 | 90  | 44             | 43  | 17 | M20                    | UC306D1        |
| 35                      | UCFLG307D1                | 185                | 141 | 20             | 16             | 36  | 23 | 100 | 49             | 48  | 19 | M20                    | UC307D1        |
| 40                      | UCFLG308D1                | 200                | 158 | 23             | 17             | 40  | 23 | 112 | 56             | 52  | 19 | M20                    | UC308D1        |
| 45                      | UCFLG309D1                | 230                | 177 | 25             | 18             | 44  | 25 | 125 | 60             | 57  | 22 | M22                    | UC309D1        |
| 50                      | UCFLG310D1                | 240                | 187 | 28             | 19             | 48  | 25 | 140 | 67             | 61  | 22 | M22                    | UC310D1        |
| 55                      | UCFLG311D1                | 250                | 198 | 30             | 20             | 52  | 25 | 150 | 71             | 66  | 25 | M22                    | UC311D1        |
| 60                      | UCFLG312D1                | 270                | 212 | 33             | 22             | 56  | 31 | 160 | 78             | 71  | 26 | M27                    | UC312D1        |
| 65                      | UCFLG313D1                | 295                | 240 | 33             | 25             | 58  | 31 | 175 | 78             | 75  | 30 | M27                    | UC313D1        |
| 70                      | UCFLG314D1                | 315                | 250 | 36             | 28             | 61  | 35 | 185 | 81             | 78  | 33 | M30                    | UC314D1        |
| 75                      | UCFLG315D1                | 320                | 260 | 39             | 30             | 66  | 35 | 195 | 89             | 82  | 32 | M30                    | UC315D1        |
| 80                      | UCFLG316D1                | 355                | 285 | 38             | 32             | 68  | 38 | 210 | 90             | 86  | 34 | M33                    | UC316D1        |
| 85                      | UCFLG317D1                | 370                | 300 | 44             | 32             | 74  | 38 | 220 | 100            | 96  | 40 | M33                    | UC317D1        |
| 90                      | UCFLG318D1                | 385                | 315 | 44             | 36             | 76  | 38 | 235 | 100            | 96  | 40 | M33                    | UC318D1        |
| 95                      | UCFLG319D1                | 405                | 330 | 59             | 40             | 94  | 41 | 250 | 121            | 103 | 41 | M36                    | UC319D1        |
| 100                     | UCFLG320D1                | 440                | 360 | 59             | 40             | 94  | 44 | 270 | 125            | 108 | 42 | M39                    | UC320D1        |
| 105                     | UCFLG321D1                | 440                | 360 | 59             | 40             | 94  | 44 | 270 | 127            | 112 | 44 | M39                    | UC321D1        |
| 110                     | UCFLG322D1                | 470                | 390 | 60             | 42             | 96  | 44 | 300 | 131            | 117 | 46 | M39                    | UC322D1        |
| 120                     | UCFLG324D1                | 520                | 430 | 65             | 48             | 110 | 47 | 330 | 140            | 126 | 51 | M42                    | UC324D1        |
| 130                     | UCFLG326D1                | 550                | 460 | 65             | 50             | 115 | 47 | 360 | 146            | 135 | 54 | M42                    | UC326D1        |
| 140                     | UCFLG328D1                | 600                | 500 | 75             | 60             | 125 | 51 | 400 | 161            | 145 | 59 | M45                    | UC328D1        |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

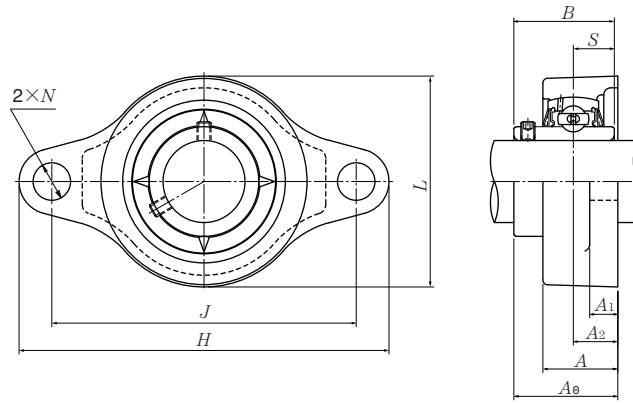
Note: 1) Please refer to page 36 for size of grease fitting.

2) Please refer to page 420-425 for inch series bearings.

| Housing <sup>1)</sup><br>number | Mass<br>(approx.)<br><br>kg |
|---------------------------------|-----------------------------|
| FLG305D1                        | 1.1                         |
| FLG306D1                        | 1.6                         |
| FLG307D1                        | 2.0                         |
| FLG308D1                        | 2.6                         |
| FLG309D1                        | 3.7                         |
| FLG310D1                        | 4.8                         |
| FLG311D1                        | 5.7                         |
| FLG312D1                        | 6.9                         |
| FLG313D1                        | 8.9                         |
| FLG314D1                        | 11                          |
| FLG315D1                        | 12                          |
| FLG316D1                        | 15                          |
| FLG317D1                        | 17                          |
| FLG318D1                        | 21                          |
| FLG319D1                        | 27                          |
| FLG320D1                        | 32                          |
| FLG321D1                        | 31                          |
| FLG322D1                        | 40                          |
| FLG324D1                        | 56                          |
| FLG326D1                        | 69                          |
| FLG328D1                        | 96                          |

## Rhombus flanged units (Stainless series)

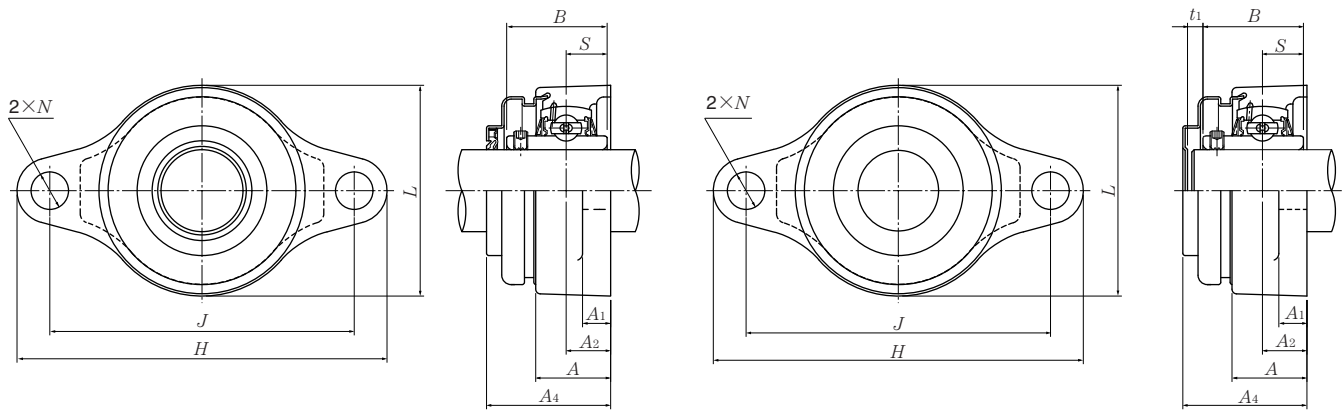
### Set screw type



| Shaft<br>dia.<br><br>mm | Unit number    | Nominal dimensions |     |                |                |      |    |     |                |      |      | Bolt<br>size<br><br>mm |
|-------------------------|----------------|--------------------|-----|----------------|----------------|------|----|-----|----------------|------|------|------------------------|
|                         |                | H                  | J   | A <sub>2</sub> | A <sub>1</sub> | A    | N  | L   | A <sub>0</sub> | B    | S    |                        |
| 20                      | F-UCFM204/LP03 | 112                | 90  | 15             | 10             | 25.5 | 12 | 60  | 33.3           | 31   | 12.7 | M10                    |
| 25                      | F-UCFM205/LP03 | 127                | 99  | 16             | 10             | 26.5 | 16 | 68  | 35.8           | 34.1 | 14.3 | M14                    |
| 30                      | F-UCFM206/LP03 | 145                | 117 | 18             | 10             | 30   | 16 | 80  | 40.2           | 38.1 | 15.9 | M14                    |
| 35                      | F-UCFM207/LP03 | 158                | 130 | 19             | 12             | 32   | 16 | 90  | 44.4           | 42.9 | 17.5 | M14                    |
| 40                      | F-UCFM208/LP03 | 172                | 144 | 21             | 12             | 35   | 16 | 100 | 51.2           | 49.2 | 19   | M14                    |
| 45                      | F-UCFM209/LP03 | 180                | 148 | 22             | 13             | 36   | 19 | 108 | 52.2           | 49.2 | 19   | M16                    |
| 50                      | F-UCFM210/LP03 | 189                | 157 | 22             | 13             | 37   | 19 | 115 | 54.6           | 51.6 | 19   | M16                    |

Remark: 1) This series uses solid grease in the bearings as standard. A stainless steel bearing unit packed with a food grade grease or heat resistance grease is also available.

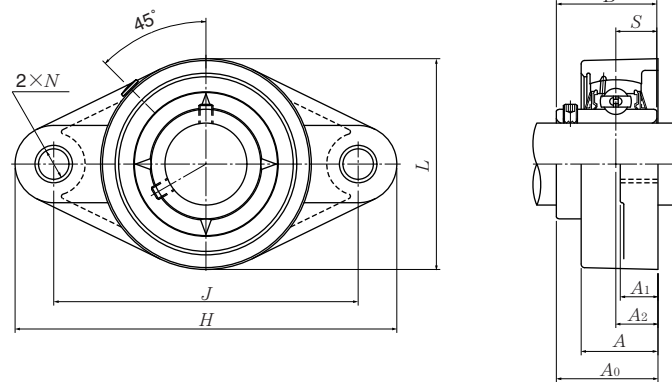
2) The basic dynamic load rating  $C_r$  of the bearing is different from a bearing made with standard bearing steel.



Stainless steel dust cover type

| Bearing number<br>mm | Basic load ratings     |                    | Housing number | Unit number<br>Pressed stainless steel dust cover type |                    | Nominal dimensions<br>mm |       | Mass (approx.)<br>kg |              |
|----------------------|------------------------|--------------------|----------------|--------------------------------------------------------|--------------------|--------------------------|-------|----------------------|--------------|
|                      | dynamic<br>kN<br>$C_r$ | static<br>$C_{or}$ |                | Open end                                               | Closed end         | $t_1$                    | $A_4$ | F-UCFM               | FS(FSM)-UCFM |
| F-UC204D1/LP03       | 9.9                    | 6.65               | FM204          | F-FS-UCFM204/LP03                                      | F-FSM-UCFM204/LP03 | 5                        | 40.5  | 0.4                  | 0.4          |
| F-UC205D1/LP03       | 10.8                   | 7.85               | FM205          | F-FS-UCFM205/LP03                                      | F-FSM-UCFM205/LP03 | 6.5                      | 44    | 0.6                  | 0.6          |
| F-UC206D1/LP03       | 15.0                   | 11.3               | FM206          | F-FS-UCFM206/LP03                                      | F-FSM-UCFM206/LP03 | 6                        | 48    | 0.8                  | 0.9          |
| F-UC207D1/LP03       | 19.7                   | 15.3               | FM207          | F-FS-UCFM207/LP03                                      | F-FSM-UCFM207/LP03 | 6.5                      | 53.5  | 1.1                  | 1.2          |
| F-UC208D1/LP03       | 22.4                   | 17.8               | FM208          | F-FS-UCFM208/LP03                                      | F-FSM-UCFM208/LP03 | 7                        | 61    | 1.4                  | 1.5          |
| F-UC209D1/LP03       | 25.2                   | 20.4               | FM209          | F-FS-UCFM209/LP03                                      | F-FSM-UCFM209/LP03 | 7                        | 62    | 1.8                  | 1.9          |
| F-UC210D1/LP03       | 27.0                   | 23.2               | FM210          | F-FS-UCFM210/LP03                                      | F-FSM-UCFM210/LP03 | 7                        | 64.5  | 1.9                  | 2.0          |

# Rhombus flanged units (Plastic housing series) Set screw type

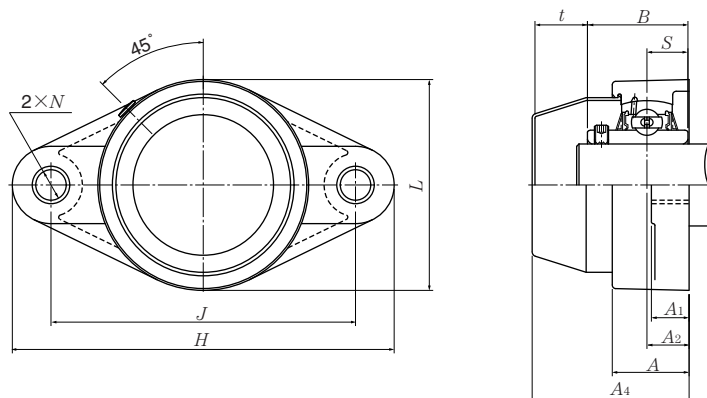


| Shaft<br>dia.<br><br>mm | Unit number     | Nominal dimensions |     |                |                |      |     |     |                |      |      | Bolt<br>size<br><br>mm |
|-------------------------|-----------------|--------------------|-----|----------------|----------------|------|-----|-----|----------------|------|------|------------------------|
|                         |                 | H                  | J   | A <sub>2</sub> | A <sub>1</sub> | A    | N   | L   | A <sub>0</sub> | B    | S    |                        |
| 20                      | F-UCFLR204/LP03 | 113                | 90  | 15.4           | 11.4           | 26.5 | 11※ | 64  | 33.7           | 31   | 12.7 | M10                    |
| 25                      | F-UCFLR205/LP03 | 130                | 99  | 17             | 13.5           | 29.1 | 11※ | 70  | 36.8           | 34.1 | 14.3 | M10※                   |
| 30                      | F-UCFLR206/LP03 | 148                | 117 | 19             | 13.3           | 30.5 | 11※ | 80  | 41.2           | 38.1 | 15.9 | M10※                   |
| 35                      | F-UCFLR207/LP03 | 163                | 130 | 18             | 16.1           | 32.8 | 13※ | 90  | 43.4           | 42.9 | 17.5 | M12※                   |
| 40                      | F-UCFLR208/LP03 | 175                | 144 | 21.5           | 20             | 37.5 | 14※ | 100 | 51.7           | 49.2 | 19   | M12※                   |

Remark: 1) This series uses solid grease in the bearings as standard. Ball bearings packed with a food grade grease are also available.

2) Some dimensions are different from those for a cast iron housings (JIS product). (Main parts are shown with "※")

3) The basic dynamic load rating  $C_r$  of the bearing is different from a bearing made with standard bearing steel.

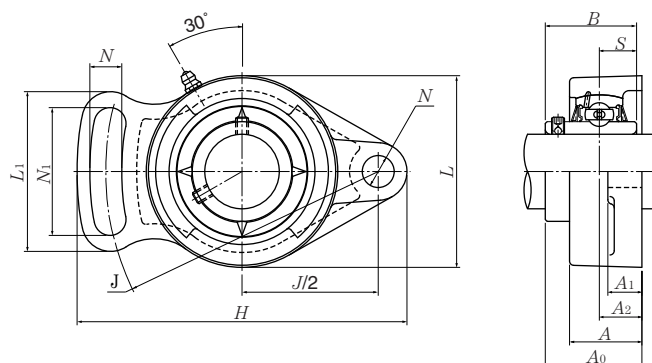


Resin dust cover type

| Bearing number | Basic load ratings     |                    | Housing number | Unit number<br>resin dust cover type | Nominal dimension |     | Mass (approx.) |            |
|----------------|------------------------|--------------------|----------------|--------------------------------------|-------------------|-----|----------------|------------|
|                | dynamic<br>kN<br>$C_r$ | static<br>$C_{or}$ |                |                                      | mm<br>$A_4$       | $t$ | F-UCFLR        | F-RM-UCFLR |
| F-UC204D1/LP03 | 9.9                    | 6.65               | FLR204         | F-RM-UCFLR204/LP03                   | 47                | 12  | 0.3            | 0.3        |
| F-UC205D1/LP03 | 10.8                   | 7.85               | FLR205         | F-RM-UCFLR205/LP03                   | 51                | 13  | 0.3            | 0.3        |
| F-UC206D1/LP03 | 15.0                   | 11.3               | FLR206         | F-RM-UCFLR206/LP03                   | 59                | 16  | 0.5            | 0.5        |
| F-UC207D1/LP03 | 19.7                   | 15.3               | FLR207         | F-RM-UCFLR207/LP03                   | 61                | 16  | 0.7            | 0.7        |
| F-UC208D1/LP03 | 22.4                   | 17.8               | FLR208         | F-RM-UCFLR208/LP03                   | 71                | 18  | 0.9            | 1.0        |



# Modified rhombus flanged units cast housing Set screw type



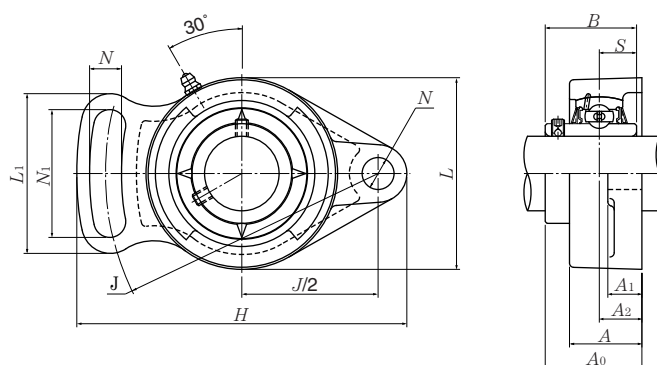
| Shaft<br>dia.                                                                                                        | Unit number <sup>1)</sup>                                                                                        | Nominal dimensions                     |                                        |                         |                         |                                        |                         |                                       |                                        |                                       |                                         |                |               |                         | Bolt<br>size |
|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------|-------------------------|-------------------------|----------------------------------------|-------------------------|---------------------------------------|----------------------------------------|---------------------------------------|-----------------------------------------|----------------|---------------|-------------------------|--------------|
|                                                                                                                      |                                                                                                                  | mm                                     |                                        |                         |                         |                                        |                         | inch                                  |                                        |                                       |                                         |                |               |                         |              |
|                                                                                                                      |                                                                                                                  | <i>H</i>                               | <i>J</i>                               | <i>A</i> <sub>2</sub>   | <i>A</i> <sub>1</sub>   | <i>A</i>                               | <i>N</i>                | <i>N</i> <sub>1</sub>                 | <i>L</i>                               | <i>L</i> <sub>1</sub>                 | <i>A</i> <sub>0</sub>                   | <i>B</i>       | <i>S</i>      |                         |              |
| <b>12</b><br>1½                                                                                                      | <b>UCFA201D1</b><br><b>UCFA201-008D1</b>                                                                         | 98<br>3 <sup>27</sup> / <sub>32</sub>  | 78<br>3 <sup>1</sup> / <sub>16</sub>   | 15<br>19/ <sub>32</sub> | 12<br>15/ <sub>32</sub> | 25.5<br>1                              | 10<br>25/ <sub>64</sub> | 40<br>1 <sup>9</sup> / <sub>16</sub>  | 60<br>2 <sup>3</sup> / <sub>8</sub>    | 50<br>1 <sup>31</sup> / <sub>32</sub> | 33.3<br>1 <sup>5</sup> / <sub>16</sub>  | 31<br>1.2205   | 12.7<br>0.500 | M 8<br>5/ <sub>16</sub> |              |
| <b>15</b><br>9/ <sub>16</sub><br>5/ <sub>8</sub>                                                                     | <b>UCFA202D1</b><br><b>UCFA202-009D1</b><br><b>UCFA202-010D1</b>                                                 | 98<br>3 <sup>27</sup> / <sub>32</sub>  | 78<br>3 <sup>1</sup> / <sub>16</sub>   | 15<br>19/ <sub>32</sub> | 12<br>15/ <sub>32</sub> | 25.5<br>1                              | 10<br>25/ <sub>64</sub> | 40<br>1 <sup>9</sup> / <sub>16</sub>  | 60<br>2 <sup>3</sup> / <sub>8</sub>    | 50<br>1 <sup>31</sup> / <sub>32</sub> | 33.3<br>1 <sup>5</sup> / <sub>16</sub>  | 31<br>1.2205   | 12.7<br>0.500 | M 8<br>5/ <sub>16</sub> |              |
| <b>17</b><br>1 <sup>1</sup> / <sub>16</sub>                                                                          | <b>UCFA203D1</b><br><b>UCFA203-011D1</b>                                                                         | 98<br>3 <sup>27</sup> / <sub>32</sub>  | 78<br>3 <sup>1</sup> / <sub>16</sub>   | 15<br>19/ <sub>32</sub> | 12<br>15/ <sub>32</sub> | 25.5<br>1                              | 10<br>25/ <sub>64</sub> | 40<br>1 <sup>9</sup> / <sub>16</sub>  | 60<br>2 <sup>3</sup> / <sub>8</sub>    | 50<br>1 <sup>31</sup> / <sub>32</sub> | 33.3<br>1 <sup>5</sup> / <sub>16</sub>  | 31<br>1.2205   | 12.7<br>0.500 | M 8<br>5/ <sub>16</sub> |              |
| <b>20</b><br>¾                                                                                                       | <b>UCFA204D1</b><br><b>UCFA204-012D1</b>                                                                         | 98<br>3 <sup>27</sup> / <sub>32</sub>  | 78<br>3 <sup>1</sup> / <sub>16</sub>   | 15<br>19/ <sub>32</sub> | 12<br>15/ <sub>32</sub> | 25.5<br>1                              | 10<br>25/ <sub>64</sub> | 40<br>1 <sup>9</sup> / <sub>16</sub>  | 60<br>2 <sup>3</sup> / <sub>8</sub>    | 50<br>1 <sup>31</sup> / <sub>32</sub> | 33.3<br>1 <sup>5</sup> / <sub>16</sub>  | 31<br>1.2205   | 12.7<br>0.500 | M 8<br>5/ <sub>16</sub> |              |
| <b>25</b><br>13/ <sub>16</sub><br>7/ <sub>8</sub><br>15/ <sub>16</sub><br>1                                          | <b>UCFA205D1</b><br><b>UCFA205-013D1</b><br><b>UCFA205-014D1</b><br><b>UCFA205-015D1</b><br><b>UCFA205-100D1</b> | 124<br>4 <sup>7</sup> / <sub>8</sub>   | 96<br>3 <sup>25</sup> / <sub>32</sub>  | 15<br>19/ <sub>32</sub> | 14<br>9/ <sub>16</sub>  | 26.5<br>1 <sup>1</sup> / <sub>32</sub> | 13<br>33/ <sub>64</sub> | 49<br>1 <sup>15</sup> / <sub>16</sub> | 70<br>2 <sup>3</sup> / <sub>4</sub>    | 64<br>2 <sup>17</sup> / <sub>32</sub> | 34.8<br>1 <sup>3</sup> / <sub>8</sub>   | 34.1<br>1.3425 | 14.3<br>0.563 | M10<br>3/ <sub>8</sub>  |              |
| <b>30</b><br>1 <sup>1</sup> / <sub>16</sub><br>1/ <sub>8</sub><br>1 <sup>3</sup> / <sub>16</sub><br>1¼               | <b>UCFA206D1</b><br><b>UCFA206-101D1</b><br><b>UCFA206-102D1</b><br><b>UCFA206-103D1</b><br><b>UCFA206-104D1</b> | 141<br>5 <sup>9</sup> / <sub>16</sub>  | 115<br>4 <sup>17</sup> / <sub>32</sub> | 18<br>45/ <sub>64</sub> | 14<br>9/ <sub>16</sub>  | 31<br>1 <sup>7</sup> / <sub>32</sub>   | 13<br>33/ <sub>64</sub> | 53<br>2 <sup>3</sup> / <sub>32</sub>  | 80<br>3 <sup>5</sup> / <sub>32</sub>   | 68<br>2 <sup>11</sup> / <sub>16</sub> | 40.2<br>1 <sup>37</sup> / <sub>64</sub> | 38.1<br>1.5000 | 15.9<br>0.626 | M10<br>3/ <sub>8</sub>  |              |
| <b>35</b><br>1¼<br>1 <sup>5</sup> / <sub>16</sub><br>1 <sup>3</sup> / <sub>8</sub><br>1 <sup>7</sup> / <sub>16</sub> | <b>UCFA207D1</b><br><b>UCFA207-104D1</b><br><b>UCFA207-105D1</b><br><b>UCFA207-106D1</b><br><b>UCFA207-107D1</b> | 155<br>6 <sup>3</sup> / <sub>32</sub>  | 128<br>5 <sup>1</sup> / <sub>32</sub>  | 20<br>25/ <sub>32</sub> | 16<br>5/ <sub>8</sub>   | 34<br>1 <sup>11</sup> / <sub>32</sub>  | 15<br>19/ <sub>32</sub> | 60<br>2 <sup>3</sup> / <sub>8</sub>   | 90<br>3 <sup>17</sup> / <sub>32</sub>  | 75<br>2 <sup>15</sup> / <sub>16</sub> | 45.4<br>1 <sup>25</sup> / <sub>32</sub> | 42.9<br>1.6890 | 17.5<br>0.689 | M12<br>7/ <sub>16</sub> |              |
| <b>40</b><br>1½<br>1 <sup>9</sup> / <sub>16</sub>                                                                    | <b>UCFA208D1</b><br><b>UCFA208-108D1</b><br><b>UCFA208-109D1</b>                                                 | 171<br>6 <sup>23</sup> / <sub>32</sub> | 142<br>5 <sup>19</sup> / <sub>32</sub> | 22<br>55/ <sub>64</sub> | 16<br>5/ <sub>8</sub>   | 36<br>1 <sup>13</sup> / <sub>32</sub>  | 15<br>19/ <sub>32</sub> | 69<br>2 <sup>23</sup> / <sub>32</sub> | 100<br>3 <sup>15</sup> / <sub>16</sub> | 84<br>3 <sup>5</sup> / <sub>16</sub>  | 52.2<br>2 <sup>1</sup> / <sub>16</sub>  | 49.2<br>1.9370 | 19<br>0.748   | M12<br>7/ <sub>16</sub> |              |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

| Bearing number | Housing number <sup>1)</sup> | Mass (approx.) |    |
|----------------|------------------------------|----------------|----|
|                |                              | kg             | lb |
| UC201D1        | FA204D1                      | 0.5            |    |
| UC201-008D1    | FA204D1                      | 1.1            |    |
| UC202D1        | FA204D1                      | 0.5            |    |
| UC202-009D1    | FA204D1                      | 1.1            |    |
| UC202-010D1    | FA204D1                      |                |    |
| UC203D1        | FA204D1                      | 0.5            |    |
| UC203-011D1    | FA204D1                      | 1.1            |    |
| UC204D1        | FA204D1                      | 0.5            |    |
| UC204-012D1    | FA204D1                      | 1.1            |    |
| UC205D1        | FA205D1                      | 0.7            |    |
| UC205-013D1    | FA205D1                      |                |    |
| UC205-014D1    | FA205D1                      | 1.5            |    |
| UC205-015D1    | FA205D1                      |                |    |
| UC205-100D1    | FA205D1                      |                |    |
| UC206D1        | FA206D1                      | 0.9            |    |
| UC206-101D1    | FA206D1                      |                |    |
| UC206-102D1    | FA206D1                      | 2.0            |    |
| UC206-103D1    | FA206D1                      |                |    |
| UC206-104D1    | FA206D1                      |                |    |
| UC207D1        | FA207D1                      | 1.2            |    |
| UC207-104D1    | FA207D1                      |                |    |
| UC207-105D1    | FA207D1                      | 2.7            |    |
| UC207-106D1    | FA207D1                      |                |    |
| UC207-107D1    | FA207D1                      |                |    |
| UC208D1        | FA208D1                      | 1.5            |    |
| UC208-108D1    | FA208D1                      | 3.3            |    |
| UC208-109D1    | FA208D1                      |                |    |

# Modified rhombus flanged units cast housing Set screw type



| Shaft<br>dia.                                                                                                                            | Unit number <sup>1)</sup> | Nominal dimensions             |                                |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |          |          |                        | Bolt<br>size |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|----------|----------|------------------------|--------------|
|                                                                                                                                          |                           |                                |                                |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |          |          |                        |              |
|                                                                                                                                          |                           | mm                             |                                |                                 |                                 |                                 |                                 | inch                            |                                 |                                 |                                 |          |          |                        |              |
| mm<br>inch                                                                                                                               |                           | <i>H</i>                       | <i>J</i>                       | <i>A</i> <sub>2</sub>           | <i>A</i> <sub>1</sub>           | <i>A</i>                        | <i>N</i>                        | <i>N</i> <sub>1</sub>           | <i>L</i>                        | <i>L</i> <sub>1</sub>           | <i>A</i> <sub>0</sub>           | <i>B</i> | <i>S</i> | mm<br>inch             |              |
| <b>45</b><br><b>1<sup>5</sup>/<sub>8</sub></b><br><b>1<sup>11</sup>/<sub>16</sub></b><br><b>1<sup>3</sup>/<sub>4</sub></b>               | <b>UCFA209D1</b>          | 179                            | 146                            | 22                              | 18                              | 38                              | 17                              | 72                              | 110                             | 88                              | 52.2                            | 49.2     | 19       | M14<br><br><br><br>1/2 |              |
|                                                                                                                                          | <b>UCFA209-110D1</b>      |                                |                                |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |          |          |                        |              |
|                                                                                                                                          | <b>UCFA209-111D1</b>      | 7 <sup>1</sup> / <sub>16</sub> | 5 <sup>3</sup> / <sub>4</sub>  | 55 <sup>5</sup> / <sub>64</sub> | 23 <sup>3</sup> / <sub>32</sub> | 1 <sup>1</sup> / <sub>2</sub>   | 43 <sup>3</sup> / <sub>64</sub> | 2 <sup>27</sup> / <sub>32</sub> | 4 <sup>11</sup> / <sub>32</sub> | 3 <sup>15</sup> / <sub>32</sub> | 2 <sup>1</sup> / <sub>16</sub>  | 1.9370   | 0.748    |                        |              |
|                                                                                                                                          | <b>UCFA209-112D1</b>      |                                |                                |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |          |          |                        |              |
| <b>50</b><br><b>1<sup>13</sup>/<sub>16</sub></b><br><b>1<sup>7</sup>/<sub>8</sub></b><br><b>1<sup>15</sup>/<sub>16</sub></b><br><b>2</b> | <b>UCFA210D1</b>          | 189                            | 155                            | 22                              | 18                              | 40                              | 17                              | 75                              | 115                             | 92                              | 54.6                            | 51.6     | 19       | M14<br><br><br><br>1/2 |              |
|                                                                                                                                          | <b>UCFA210-113D1</b>      |                                |                                |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |          |          |                        |              |
|                                                                                                                                          | <b>UCFA210-114D1</b>      | 7 <sup>7</sup> / <sub>16</sub> | 6 <sup>3</sup> / <sub>32</sub> | 55 <sup>5</sup> / <sub>64</sub> | 23 <sup>3</sup> / <sub>32</sub> | 1 <sup>9</sup> / <sub>16</sub>  | 43 <sup>3</sup> / <sub>64</sub> | 2 <sup>15</sup> / <sub>16</sub> | 4 <sup>17</sup> / <sub>32</sub> | 3 <sup>5</sup> / <sub>8</sub>   | 2 <sup>5</sup> / <sub>32</sub>  | 2.0315   | 0.748    |                        |              |
|                                                                                                                                          | <b>UCFA210-115D1</b>      |                                |                                |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |          |          |                        |              |
| <b>UCFA210-200D1</b>                                                                                                                     |                           |                                |                                |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |          |          |                        |              |
| <b>55</b><br><b>2</b><br><b>2<sup>1</sup>/<sub>16</sub></b><br><b>2<sup>1</sup>/<sub>8</sub></b><br><b>2<sup>3</sup>/<sub>16</sub></b>   | <b>UCFA211D1</b>          | 216                            | 182                            | 26                              | 20                              | 43                              | 17                              | 85                              | 130                             | 102                             | 59.4                            | 55.6     | 22.2     | M14<br><br><br><br>1/2 |              |
|                                                                                                                                          | <b>UCFA211-200D1</b>      |                                |                                |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |          |          |                        |              |
|                                                                                                                                          | <b>UCFA211-201D1</b>      | 8 <sup>1</sup> / <sub>8</sub>  | 7 <sup>5</sup> / <sub>32</sub> | 1 <sup>1</sup> / <sub>32</sub>  | 25 <sup>5</sup> / <sub>32</sub> | 1 <sup>11</sup> / <sub>16</sub> | 43 <sup>3</sup> / <sub>64</sub> | 3 <sup>11</sup> / <sub>32</sub> | 5 <sup>1</sup> / <sub>8</sub>   | 4 <sup>1</sup> / <sub>32</sub>  | 2 <sup>11</sup> / <sub>32</sub> | 2.1890   | 0.874    |                        |              |
|                                                                                                                                          | <b>UCFA211-202D1</b>      |                                |                                |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |          |          |                        |              |
|                                                                                                                                          | <b>UCFA211-203D1</b>      |                                |                                |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |          |          |                        |              |

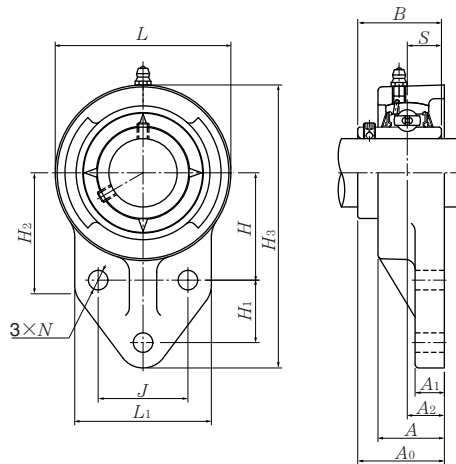
Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

| Bearing number | Housing number <sup>1)</sup> | Mass<br>(approx.) |
|----------------|------------------------------|-------------------|
|                |                              | kg lb             |
| UC209D1        | FA209D1                      | 1.9               |
| UC209-110D1    | FA209D1                      |                   |
| UC209-111D1    | FA209D1                      | 4.2               |
| UC209-112D1    | FA209D1                      |                   |
| UC210D1        | FA210D1                      | 2.2               |
| UC210-113D1    | FA210D1                      |                   |
| UC210-114D1    | FA210D1                      | 4.9               |
| UC210-115D1    | FA210D1                      |                   |
| UC210-200D1    | FA210D1                      |                   |
| UC211D1        | FA211D1                      | 2.9               |
| UC211-200D1    | FA211D1                      |                   |
| UC211-201D1    | FA211D1                      |                   |
| UC211-202D1    | FA211D1                      | 6.4               |
| UC211-203D1    | FA211D1                      |                   |

# Modified flanged units cast housing

## Set screw type



| Shaft<br>dia.    | Unit number <sup>1)</sup> | Nominal dimensions |                  |                 |                 |                  |                 |                  |                  |                 |                  |                  |                  |        |       |  |
|------------------|---------------------------|--------------------|------------------|-----------------|-----------------|------------------|-----------------|------------------|------------------|-----------------|------------------|------------------|------------------|--------|-------|--|
|                  |                           |                    |                  |                 |                 |                  |                 |                  |                  |                 |                  |                  |                  |        |       |  |
|                  |                           | mm                 |                  |                 |                 |                  |                 |                  | inch             |                 |                  |                  |                  |        |       |  |
| mm<br>inch       |                           | H <sub>3</sub>     | J                | A <sub>2</sub>  | A <sub>1</sub>  | A                | N               | H                | H <sub>1</sub>   | L <sub>1</sub>  | H <sub>2</sub>   | L                | A <sub>0</sub>   | B      | S     |  |
| <b>12</b>        | <b>UCFH201D1</b>          | 110                | 32               | 15              | 13              | 25.5             | 10              | 42               | 27               | 52              | 52               | 62               | 33.3             | 31     | 12.7  |  |
| $\frac{1}{2}$    | <b>UCFH201-008D1</b>      | $4\frac{11}{32}$   | $1\frac{17}{64}$ | $\frac{19}{32}$ | $\frac{1}{2}$   | 1                | $\frac{25}{64}$ | $1\frac{21}{32}$ | $1\frac{1}{16}$  | $2\frac{1}{16}$ | $2\frac{1}{16}$  | $2\frac{7}{16}$  | $1\frac{5}{16}$  | 1.2205 | 0.500 |  |
| <b>15</b>        | <b>UCFH202D1</b>          | 110                | 32               | 15              | 13              | 25.5             | 10              | 42               | 27               | 52              | 52               | 62               | 33.3             | 31     | 12.7  |  |
| $\frac{9}{16}$   | <b>UCFH202-009D1</b>      | $4\frac{11}{32}$   | $1\frac{17}{64}$ | $\frac{19}{32}$ | $\frac{1}{2}$   | 1                | $\frac{25}{64}$ | $1\frac{21}{32}$ | $1\frac{1}{16}$  | $2\frac{1}{16}$ | $2\frac{1}{16}$  | $2\frac{7}{16}$  | $1\frac{5}{16}$  | 1.2205 | 0.500 |  |
| $\frac{5}{8}$    | <b>UCFH202-010D1</b>      |                    |                  |                 |                 |                  |                 |                  |                  |                 |                  |                  |                  |        |       |  |
| <b>17</b>        | <b>UCFH203D1</b>          | 110                | 32               | 15              | 13              | 25.5             | 10              | 42               | 27               | 52              | 52               | 62               | 33.3             | 31     | 12.7  |  |
| $\frac{11}{16}$  | <b>UCFH203-011D1</b>      | $4\frac{11}{32}$   | $1\frac{17}{64}$ | $\frac{19}{32}$ | $\frac{1}{2}$   | 1                | $\frac{25}{64}$ | $1\frac{21}{32}$ | $1\frac{1}{16}$  | $2\frac{1}{16}$ | $2\frac{1}{16}$  | $2\frac{7}{16}$  | $1\frac{5}{16}$  | 1.2205 | 0.500 |  |
| <b>20</b>        | <b>UCFH204D1</b>          | 110                | 32               | 15              | 13              | 25.5             | 10              | 42               | 27               | 52              | 52               | 62               | 33.3             | 31     | 12.7  |  |
| $\frac{3}{4}$    | <b>UCFH204-012D1</b>      | $4\frac{11}{32}$   | $1\frac{17}{64}$ | $\frac{19}{32}$ | $\frac{1}{2}$   | 1                | $\frac{25}{64}$ | $1\frac{21}{32}$ | $1\frac{1}{16}$  | $2\frac{1}{16}$ | $2\frac{1}{16}$  | $2\frac{7}{16}$  | $1\frac{5}{16}$  | 1.2205 | 0.500 |  |
| <b>25</b>        | <b>UCFH205D1</b>          | 116                | 34               | 16              | 13              | 27               | 10              | 45               | 27               | 56              | 52               | 68               | 35.8             | 34.1   | 14.3  |  |
| $\frac{13}{16}$  | <b>UCFH205-013D1</b>      |                    |                  |                 |                 |                  |                 |                  |                  |                 |                  |                  |                  |        |       |  |
| $\frac{7}{8}$    | <b>UCFH205-014D1</b>      | $4\frac{9}{16}$    | $1\frac{11}{32}$ | $\frac{5}{8}$   | $\frac{1}{2}$   | $1\frac{1}{16}$  | $\frac{25}{64}$ | $1\frac{49}{64}$ | $1\frac{1}{16}$  | $2\frac{7}{32}$ | $2\frac{1}{16}$  | $2\frac{11}{16}$ | $1\frac{13}{32}$ | 1.3425 | 0.563 |  |
| $\frac{15}{16}$  | <b>UCFH205-015D1</b>      |                    |                  |                 |                 |                  |                 |                  |                  |                 |                  |                  |                  |        |       |  |
| <b>1</b>         | <b>UCFH205-100D1</b>      |                    |                  |                 |                 |                  |                 |                  |                  |                 |                  |                  |                  |        |       |  |
| <b>30</b>        | <b>UCFH206D1</b>          | 130                | 40               | 18              | 13              | 31               | 10              | 50               | 29               | 65              | 55               | 78               | 40.2             | 38.1   | 15.9  |  |
| $1\frac{1}{16}$  | <b>UCFH206-101D1</b>      |                    |                  |                 |                 |                  |                 |                  |                  |                 |                  |                  |                  |        |       |  |
| $1\frac{1}{8}$   | <b>UCFH206-102D1</b>      | $5\frac{1}{8}$     | $\frac{37}{64}$  | $\frac{45}{64}$ | $\frac{1}{2}$   | $1\frac{7}{32}$  | $\frac{25}{64}$ | $1\frac{31}{32}$ | $1\frac{9}{64}$  | $2\frac{9}{16}$ | $2\frac{5}{32}$  | $3\frac{1}{16}$  | $1\frac{37}{64}$ | 1.5000 | 0.626 |  |
| $1\frac{3}{16}$  | <b>UCFH206-103D1</b>      |                    |                  |                 |                 |                  |                 |                  |                  |                 |                  |                  |                  |        |       |  |
| $1\frac{1}{4}$   | <b>UCFH206-104D1</b>      |                    |                  |                 |                 |                  |                 |                  |                  |                 |                  |                  |                  |        |       |  |
| <b>35</b>        | <b>UCFH207D1</b>          | 144                | 46               | 19              | 15              | 34               | 10              | 55               | 32               | 70              | 62               | 90               | 44.4             | 42.9   | 17.5  |  |
| $1\frac{1}{4}$   | <b>UCFH207-104D1</b>      |                    |                  |                 |                 |                  |                 |                  |                  |                 |                  |                  |                  |        |       |  |
| $1\frac{5}{16}$  | <b>UCFH207-105D1</b>      | $5\frac{21}{32}$   | $1\frac{13}{16}$ | $\frac{3}{4}$   | $\frac{19}{32}$ | $1\frac{11}{32}$ | $\frac{25}{64}$ | $2\frac{11}{64}$ | $1\frac{17}{64}$ | $2\frac{3}{4}$  | $2\frac{7}{16}$  | $3\frac{17}{32}$ | $1\frac{3}{4}$   | 1.6890 | 0.689 |  |
| $1\frac{3}{8}$   | <b>UCFH207-106D1</b>      |                    |                  |                 |                 |                  |                 |                  |                  |                 |                  |                  |                  |        |       |  |
| $1\frac{7}{16}$  | <b>UCFH207-107D1</b>      |                    |                  |                 |                 |                  |                 |                  |                  |                 |                  |                  |                  |        |       |  |
| <b>40</b>        | <b>UCFH208D1</b>          | 164                | 50               | 21              | 16              | 36               | 12              | 60               | 41               | 78              | 72               | 100              | 51.2             | 49.2   | 19    |  |
| $1\frac{1}{2}$   | <b>UCFH208-108D1</b>      | $6\frac{15}{32}$   | $1\frac{31}{32}$ | $\frac{53}{64}$ | $\frac{5}{8}$   | $1\frac{13}{32}$ | $\frac{15}{32}$ | $2\frac{23}{64}$ | $1\frac{39}{64}$ | $3\frac{1}{16}$ | $2\frac{27}{32}$ | $3\frac{15}{16}$ | $2\frac{1}{64}$  | 1.9370 | 0.748 |  |
| $1\frac{9}{16}$  | <b>UCFH208-109D1</b>      |                    |                  |                 |                 |                  |                 |                  |                  |                 |                  |                  |                  |        |       |  |
| <b>45</b>        | <b>UCFH209D1</b>          | 174                | 54               | 22              | 18              | 38               | 12              | 65               | 43               | 80              | 76               | 106              | 52.2             | 49.2   | 19    |  |
| $1\frac{5}{8}$   | <b>UCFH209-110D1</b>      |                    |                  |                 |                 |                  |                 |                  |                  |                 |                  |                  |                  |        |       |  |
| $1\frac{11}{16}$ | <b>UCFH209-111D1</b>      | $6\frac{27}{32}$   | $2\frac{1}{8}$   | $\frac{55}{64}$ | $\frac{23}{32}$ | $1\frac{1}{2}$   | $\frac{15}{32}$ | $2\frac{9}{16}$  | $1\frac{11}{16}$ | $3\frac{5}{32}$ | 3                | $4\frac{3}{16}$  | $2\frac{1}{16}$  | 1.9370 | 0.748 |  |
| $1\frac{3}{4}$   | <b>UCFH209-112D1</b>      |                    |                  |                 |                 |                  |                 |                  |                  |                 |                  |                  |                  |        |       |  |

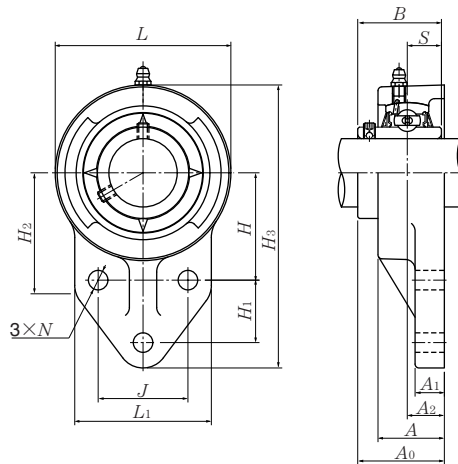
Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

| Bolt size   | Bearing number                                                      | Housing number <sup>1)</sup>                        | Mass (approx.) |    |
|-------------|---------------------------------------------------------------------|-----------------------------------------------------|----------------|----|
|             |                                                                     |                                                     | kg             | lb |
| M 8<br>5/16 | UC201D1<br>UC201-008D1                                              | FH204D1<br>FH204D1                                  | 0.6<br>1.3     |    |
| M 8<br>5/16 | UC202D1<br>UC202-009D1<br>UC202-010D1                               | FH204D1<br>FH204D1<br>FH204D1                       | 0.6<br>1.3     |    |
| M 8<br>5/16 | UC203D1<br>UC203-011D1                                              | FH204D1<br>FH204D1                                  | 0.6<br>1.3     |    |
| M 8<br>5/16 | UC204D1<br>UC204-012D1                                              | FH204D1<br>FH204D1                                  | 0.6<br>1.3     |    |
| M 8<br>5/16 | UC205D1<br>UC205-013D1<br>UC205-014D1<br>UC205-015D1<br>UC205-100D1 | FH205D1<br>FH205D1<br>FH205D1<br>FH205D1<br>FH205D1 | 0.7<br>1.5     |    |
| M 8<br>5/16 | UC206D1<br>UC206-101D1<br>UC206-102D1<br>UC206-103D1<br>UC206-104D1 | FH206D1<br>FH206D1<br>FH206D1<br>FH206D1<br>FH206D1 | 0.9<br>2.0     |    |
| M 8<br>5/16 | UC207D1<br>UC207-104D1<br>UC207-105D1<br>UC207-106D1<br>UC207-107D1 | FH207D1<br>FH207D1<br>FH207D1<br>FH207D1<br>FH207D1 | 1.3<br>2.9     |    |
| M10<br>3/8  | UC208D1<br>UC208-108D1<br>UC208-109D1                               | FH208D1<br>FH208D1<br>FH208D1                       | 1.8<br>4.0     |    |
| M10<br>3/8  | UC209D1<br>UC209-110D1<br>UC209-111D1<br>UC209-112D1                | FH209D1<br>FH209D1<br>FH209D1<br>FH209D1            | 2.1<br>4.6     |    |

# Modified flanged units cast housing

## Set screw type



| Shaft dia.                      | Unit number <sup>1)</sup> | Nominal dimensions    |          |                       |                       |          |          |          |                       |                       |                       |          |                       |          |          |  |  |
|---------------------------------|---------------------------|-----------------------|----------|-----------------------|-----------------------|----------|----------|----------|-----------------------|-----------------------|-----------------------|----------|-----------------------|----------|----------|--|--|
| mm<br>inch                      |                           |                       |          |                       |                       |          |          |          | mm                    | inch                  |                       |          |                       |          |          |  |  |
|                                 |                           | <i>H</i> <sub>3</sub> | <i>J</i> | <i>A</i> <sub>2</sub> | <i>A</i> <sub>1</sub> | <i>A</i> | <i>N</i> | <i>H</i> | <i>H</i> <sub>1</sub> | <i>L</i> <sub>1</sub> | <i>H</i> <sub>2</sub> | <i>L</i> | <i>A</i> <sub>0</sub> | <i>B</i> | <i>S</i> |  |  |
| 50                              | UCFH210D1                 | 184                   | 58       | 22                    | 18                    | 40       | 12       | 68       | 46                    | 86                    | 82                    | 112      | 54.6                  | 51.6     | 19       |  |  |
| 1 <sup>13</sup> / <sub>16</sub> | UCFH210-113D1             |                       |          |                       |                       |          |          |          |                       |                       |                       |          |                       |          |          |  |  |
| 1 <sup>7</sup> / <sub>8</sub>   | UCFH210-114D1             |                       |          |                       |                       |          |          |          |                       |                       |                       |          |                       |          |          |  |  |
| 1 <sup>15</sup> / <sub>16</sub> | UCFH210-115D1             |                       |          |                       |                       |          |          |          |                       |                       |                       |          |                       |          |          |  |  |
| 2                               | UCFH210-200D1             |                       |          |                       |                       |          |          |          |                       |                       |                       |          |                       |          |          |  |  |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

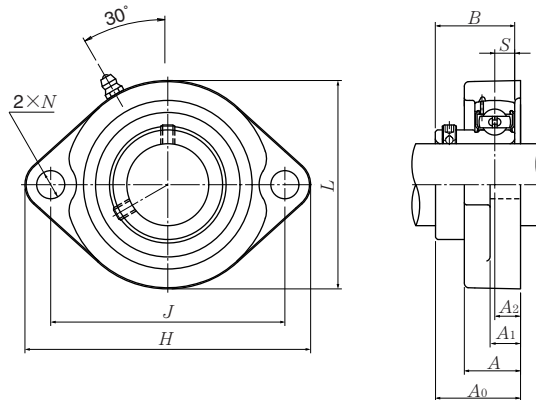
Note: Please refer to page 36 for size of grease fitting.

| Bolt size  | Bearing number | Housing number <sup>1)</sup> | Mass (approx.) |
|------------|----------------|------------------------------|----------------|
| mm<br>inch |                |                              | kg lb          |
| M10        | UC210D1        | FH210D1                      | 2.4            |
|            | UC210-113D1    | FH210D1                      |                |
|            | UC210-114D1    | FH210D1                      | 5.3            |
|            | UC210-115D1    | FH210D1                      |                |
|            | UC210-200D1    | FH210D1                      |                |



# Light rhombus flanged units cast housing

## Set screw type

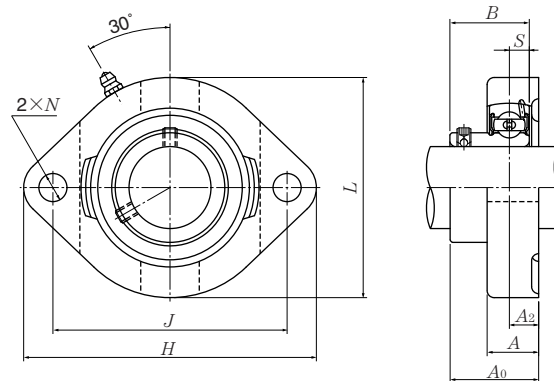


| Shaft<br>dia.                    | Unit number <sup>1)</sup>                                                       | Nominal dimensions |               |                       |                       |             |             |             |                       |              |              | Bolt<br>size | Bearing number <sup>1)</sup>                                        |
|----------------------------------|---------------------------------------------------------------------------------|--------------------|---------------|-----------------------|-----------------------|-------------|-------------|-------------|-----------------------|--------------|--------------|--------------|---------------------------------------------------------------------|
|                                  |                                                                                 | mm                 |               |                       |                       |             | inch        |             |                       |              |              |              |                                                                     |
|                                  |                                                                                 | <i>H</i>           | <i>J</i>      | <i>A</i> <sub>2</sub> | <i>A</i> <sub>1</sub> | <i>A</i>    | <i>N</i>    | <i>L</i>    | <i>A</i> <sub>0</sub> | <i>B</i>     | <i>S</i>     |              |                                                                     |
| mm<br>inch                       |                                                                                 |                    |               |                       |                       |             |             |             |                       |              |              | mm<br>inch   |                                                                     |
| 12<br>1½                         | ASFB201D1<br>ASFB201-008D1                                                      | 81<br>3⅜           | 63.5<br>2½    | 9.5<br>⅜              | 9.5<br>⅜              | 18<br>23⁄32 | 7<br>9⁄32   | 56<br>27⁄32 | 25.5<br>1             | 22<br>0.8661 | 6<br>0.236   | M6<br>¼      | AS201D1<br>AS201-008D1                                              |
| 15<br>9⁄16<br>5⁄8                | ASFB202D1<br>ASFB202-009D1<br>ASFB202-010D1                                     | 81<br>3⅜           | 63.5<br>2½    | 9.5<br>⅜              | 9.5<br>⅜              | 18<br>23⁄32 | 7<br>9⁄32   | 56<br>27⁄32 | 25.5<br>1             | 22<br>0.8661 | 6<br>0.236   | M6<br>¼      | AS202D1<br>AS202-009D1<br>AS202-010D1                               |
| 17<br>11⁄16                      | ASFB203D1<br>ASFB203-011D1                                                      | 81<br>3⅜           | 63.5<br>2½    | 9.5<br>⅜              | 9.5<br>⅜              | 18<br>23⁄32 | 7<br>9⁄32   | 56<br>27⁄32 | 25.5<br>1             | 22<br>0.8661 | 6<br>0.236   | M6<br>¼      | AS203D1<br>AS203-011D1                                              |
| 20<br>¾                          | ASFB204D1<br>ASFB204-012D1                                                      | 90<br>3⅝           | 71.5<br>2⅜    | 11<br>7⁄16            | 11<br>7⁄16            | 20<br>25⁄32 | 10<br>25⁄64 | 61<br>2⅜    | 29<br>1⅞              | 25<br>0.9843 | 7<br>0.276   | M8<br>5⁄16   | AS204D1<br>AS204-012D1                                              |
| 25<br>13⁄16<br>7⁄8<br>15⁄16<br>1 | ASFB205D1D1<br>ASFB205-013D1<br>ASFB205-014D1<br>ASFB205-015D1<br>ASFB205-100D1 | 95<br>3¾           | 76<br>2⅝      | 11<br>7⁄16            | 11<br>7⁄16            | 20<br>25⁄32 | 10<br>25⁄64 | 64<br>2⅞    | 30.5<br>1⅜            | 27<br>1.0630 | 7.5<br>0.295 | M8<br>5⁄16   | AS205D1<br>AS205-013D1<br>AS205-014D1<br>AS205-015D1<br>AS205-100D1 |
| 30<br>1⅙<br>1⅝<br>1⅜<br>1¼       | ASFB206D1<br>ASFB206-101D1<br>ASFB206-102D1<br>ASFB206-103D1<br>ASFB206-104D1   | 113<br>47⁄16       | 90.5<br>3⅞    | 12<br>15⁄32           | 12<br>15⁄32           | 22.5<br>7⁄8 | 12<br>15⁄32 | 76<br>3     | 33<br>1⅞              | 29<br>1.1417 | 8<br>0.315   | M10<br>⅜     | AS206D1<br>AS206-101D1<br>AS206-102D1<br>AS206-103D1<br>AS206-104D1 |
| 35<br>1¼<br>1⅝<br>1⅜<br>1⅙       | ASFB207D1<br>ASFB207-104D1<br>ASFB207-105D1<br>ASFB207-106D1<br>ASFB207-107D1   | 122<br>451⁄64      | 100<br>315⁄16 | 11<br>7⁄16            | 13<br>½               | 24<br>15⁄16 | 12<br>15⁄32 | 89<br>3½    | 36.5<br>17⁄16         | 34<br>1.3386 | 8.5<br>0.335 | M10<br>⅜     | AS207D1<br>AS207-104D1<br>AS207-105D1<br>AS207-106D1<br>AS207-107D1 |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".  
 Note: Please refer to page 36 for size of grease fitting.

| Housing <sup>1)</sup><br>number | Mass<br>(approx.) |
|---------------------------------|-------------------|
|                                 | kg lb             |
| FB201D1                         | 0.3               |
| FB201D1                         | 0.7               |
| FB201D1                         | 0.3               |
| FB201D1                         | 0.7               |
| FB201D1                         | 0.2               |
| FB201D1                         | 0.4               |
| FB204D1                         | 0.3               |
| FB204D1                         | 0.7               |
| FB205D1                         | 0.3               |
| FB205D1                         | 0.7               |
| FB206D1                         | 0.5               |
| FB206D1                         | 1.1               |
| FB207D1                         | 0.8               |
| FB207D1                         | 1.8               |

# Light rhombus flanged units cast housing Set screw type



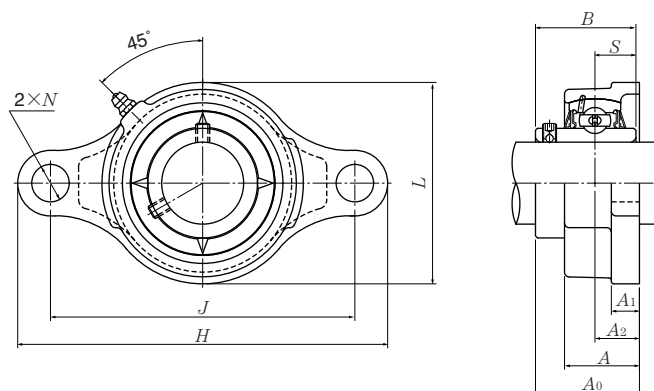
| Shaft<br>dia.                     | Unit number <sup>1)</sup>                                                                                                  | Nominal dimensions |           |                       |             |               |           |                       |              |              | Bolt<br>size | Bearing number <sup>1)</sup>                                                         |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------|--------------------|-----------|-----------------------|-------------|---------------|-----------|-----------------------|--------------|--------------|--------------|--------------------------------------------------------------------------------------|
|                                   |                                                                                                                            | mm                 |           |                       | inch        |               |           |                       |              |              |              |                                                                                      |
| mm<br>inch                        |                                                                                                                            | <i>H</i>           | <i>J</i>  | <i>A</i> <sub>2</sub> | <i>A</i>    | <i>N</i>      | <i>L</i>  | <i>A</i> <sub>0</sub> | <i>B</i>     | <i>S</i>     | mm<br>inch   |                                                                                      |
| <b>12</b><br>1½                   | <b>A-ASFD201D1</b><br><b>A-ASFD201-008D1</b>                                                                               | 81<br>3⅜           | 63<br>2⅜  | 8.5<br>2⅛             | 15<br>19/32 | 7<br>9/32     | 59<br>2⅝  | 24.5<br>31/32         | 22<br>0.8661 | 6<br>0.236   | M6<br>¼      | <b>A-AS201D1</b><br>A-AS201-008D1                                                    |
| <b>15</b><br>9/16<br>5/8          | <b>A-ASFD202D1</b><br><b>A-ASFD202-009D1</b><br><b>A-ASFD202-010D1</b>                                                     | 81<br>3⅜           | 63<br>2⅜  | 8.5<br>2⅛             | 15<br>19/32 | 7<br>9/32     | 59<br>2⅝  | 24.5<br>31/32         | 22<br>0.8661 | 6<br>0.236   | M6<br>¼      | <b>A-AS202D1</b><br>A-AS202-009D1<br>A-AS202-010D1                                   |
| <b>17</b><br>1⅛                   | <b>A-ASFD203D1</b><br><b>A-ASFD203-011D1</b>                                                                               | 81<br>3⅜           | 63<br>2⅜  | 8.5<br>2⅛             | 15<br>19/32 | 7<br>9/32     | 59<br>2⅝  | 24.5<br>31/32         | 22<br>0.8661 | 6<br>0.236   | M6<br>¼      | <b>A-AS203D1</b><br>A-AS203-011D1                                                    |
| <b>20</b><br>¾                    | <b>A-ASFD204D1</b><br><b>A-ASFD204-012D1</b>                                                                               | 90<br>3⅝           | 71<br>2⅝  | 9.5<br>¾              | 17<br>21/32 | 10<br>25/64   | 67<br>2⅝  | 27.5<br>1⅝            | 25<br>0.9843 | 7<br>0.276   | M8<br>5/16   | <b>A-AS204D1</b><br>A-AS204-012D1                                                    |
| <b>25</b><br>1⅜<br>7/8<br>1⅝<br>1 | <b>A-ASFD205D1</b><br><b>A-ASFD205-013D1</b><br><b>A-ASFD205-014D1</b><br><b>A-ASFD205-015D1</b><br><b>A-ASFD205-100D1</b> | 95<br>3¾           | 76<br>2⅔  | 9.5<br>¾              | 17<br>21/32 | 10<br>25/64   | 71<br>2⅝  | 29<br>1⅞              | 27<br>1.0630 | 7.5<br>0.295 | M8<br>5/16   | <b>A-AS205D1</b><br>A-AS205-013D1<br>A-AS205-014D1<br>A-AS205-015D1<br>A-AS205-100D1 |
| <b>30</b><br>1⅛<br>1⅝<br>1⅜<br>1¼ | <b>A-ASFD206D1</b><br><b>A-ASFD206-101D1</b><br><b>A-ASFD206-102D1</b><br><b>A-ASFD206-103D1</b><br><b>A-ASFD206-104D1</b> | 113<br>4⅞          | 90<br>3⅝  | 12<br>15/32           | 21<br>13/16 | 12<br>15/32   | 84<br>3⅝  | 33<br>1⅞              | 29<br>1.1417 | 8<br>0.315   | M10<br>3/8   | <b>A-AS206D1</b><br>A-AS206-101D1<br>A-AS206-102D1<br>A-AS206-103D1<br>A-AS206-104D1 |
| <b>35</b><br>1¼<br>1⅝<br>1⅜<br>1⅞ | <b>A-ASFD207D1</b><br><b>A-ASFD207-104D1</b><br><b>A-ASFD207-105D1</b><br><b>A-ASFD207-106D1</b><br><b>A-ASFD207-107D1</b> | 125<br>4⅔          | 100<br>3⅝ | 12.5<br>31/64         | 22<br>7/8   | 12<br>15/32   | 94<br>3⅞  | 38<br>1½              | 34<br>1.3386 | 8.5<br>0.335 | M10<br>3/8   | <b>A-AS207D1</b><br>A-AS207-104D1<br>A-AS207-105D1<br>A-AS207-106D1<br>A-AS207-107D1 |
| <b>40</b><br>1½<br>1⅞             | <b>A-ASFD208D1</b><br><b>A-ASFD208-108D1</b><br><b>A-ASFD208-109D1</b>                                                     | 148<br>5⅝          | 119<br>4⅞ | 14.5<br>37/64         | 25<br>31/32 | 13.5<br>17/32 | 104<br>4⅜ | 43.5<br>1⅔            | 38<br>1.4961 | 9<br>0.354   | M12<br>7/16  | <b>A-AS208D1</b><br>A-AS208-108D1<br>A-AS208-109D1                                   |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without prefix "A-" and suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

| Housing <sup>1)</sup><br>number | Mass<br>(approx.) |
|---------------------------------|-------------------|
|                                 | kg lb             |
| FD201D1                         | 0.3               |
| FD201D1                         | 0.7               |
| FD201D1                         | 0.3               |
| FD201D1                         | 0.7               |
| FD201D1                         |                   |
| FD201D1                         | 0.3               |
| FD201D1                         | 0.7               |
| FD204D1                         | 0.4               |
| FD204D1                         | 0.9               |
| FD205D1                         | 0.5               |
| FD205D1                         |                   |
| FD205D1                         | 1.1               |
| FD205D1                         |                   |
| FD205D1                         |                   |
| FD206D1                         | 0.8               |
| FD206D1                         |                   |
| FD206D1                         | 1.8               |
| FD206D1                         |                   |
| FD206D1                         |                   |
| FD207D1                         | 0.9               |
| FD207D1                         |                   |
| FD207D1                         | 2.0               |
| FD207D1                         |                   |
| FD207D1                         |                   |
| FD208D1                         | 1.3               |
| FD208D1                         | 2.9               |
| FD208D1                         |                   |

# Rhombus flanged units ductile cast housing (Ductile series) Set screw type



| Shaft<br>dia.<br><br>mm | Unit number <sup>1)</sup> | Nominal dimensions |     |                |                |    |    |     |                |      |      | Bolt<br>size<br><br>mm | Bearing number |
|-------------------------|---------------------------|--------------------|-----|----------------|----------------|----|----|-----|----------------|------|------|------------------------|----------------|
|                         |                           | H                  | J   | A <sub>2</sub> | A <sub>1</sub> | A  | N  | L   | A <sub>0</sub> | B    | S    |                        |                |
| 12                      | UCFE201D1                 | 112                | 90  | 15             | 10             | 25 | 12 | 57  | 33.3           | 31   | 12.7 | M10                    | UC201D1        |
| 15                      | UCFE202D1                 | 112                | 90  | 15             | 10             | 25 | 12 | 57  | 33.3           | 31   | 12.7 | M10                    | UC202D1        |
| 17                      | UCFE203D1                 | 112                | 90  | 15             | 10             | 25 | 12 | 57  | 33.3           | 31   | 12.7 | M10                    | UC203D1        |
| 20                      | UCFE204D1                 | 112                | 90  | 15             | 10             | 25 | 12 | 57  | 33.3           | 31   | 12.7 | M10                    | UC204D1        |
| 25                      | UCFE205D1                 | 127                | 99  | 16             | 10             | 26 | 16 | 62  | 35.8           | 34.1 | 14.3 | M14                    | UC205D1        |
| 30                      | UCFE206D1                 | 145                | 117 | 18             | 10             | 30 | 16 | 73  | 40.2           | 38.1 | 15.9 | M14                    | UC206D1        |
| 35                      | UCFE207D1                 | 158                | 130 | 19             | 12             | 32 | 16 | 86  | 44.4           | 42.9 | 17.5 | M14                    | UC207D1        |
| 40                      | UCFE208D1                 | 172                | 144 | 21             | 12             | 35 | 16 | 95  | 51.2           | 49.2 | 19   | M14                    | UC208D1        |
| 45                      | UCFE209D1                 | 180                | 148 | 22             | 13             | 36 | 19 | 101 | 52.2           | 49.2 | 19   | M16                    | UC209D1        |
| 50                      | UCFE210D1                 | 189                | 157 | 22             | 13             | 37 | 19 | 106 | 54.6           | 51.6 | 19   | M16                    | UC210D1        |
| 55                      | UCFE211D1                 | 216                | 184 | 25             | 18             | 41 | 19 | 118 | 58.4           | 55.6 | 22.2 | M16                    | UC211D1        |
| 60                      | UCFE212D1                 | 241                | 202 | 29             | 18             | 46 | 23 | 129 | 68.7           | 65.1 | 25.4 | M20                    | UC212D1        |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

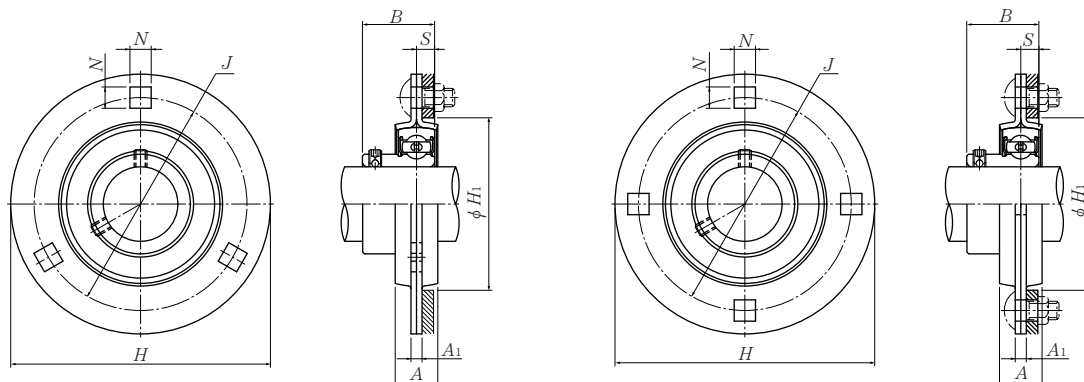
Note: 1) Please refer to page 36 for size of grease fitting.

2) Please refer to page 410-415 for inch series bearings.

| Housing <sup>1)</sup><br>number | Mass<br>(approx.)<br><br>kg |
|---------------------------------|-----------------------------|
| FE204D1                         | 0.4                         |
| FE204D1                         | 0.4                         |
| FE204D1                         | 0.4                         |
| FE204D1                         | 0.4                         |
| FE205D1                         | 0.4                         |
| FE206D1                         | 0.6                         |
| FE207D1                         | 0.9                         |
| FE208D1                         | 1.2                         |
| FE209D1                         | 1.3                         |
| FE210D1                         | 1.5                         |
| FE211D1                         | 2.1                         |
| FE212D1                         | 2.8                         |

# Round flanged units pressed steel housing

## Set screw type



ASPF201~ASPF207

ASPF208

| Shaft<br>dia.              | Unit number                                                         | Nominal dimensions |            |                       |                         |             |              |              |                               | Bolt<br>size | Max. load<br>recommended |              | Bearing<br>number                                         |
|----------------------------|---------------------------------------------------------------------|--------------------|------------|-----------------------|-------------------------|-------------|--------------|--------------|-------------------------------|--------------|--------------------------|--------------|-----------------------------------------------------------|
|                            |                                                                     | mm                 |            |                       |                         | inch        |              |              |                               |              | N<br>radial              | lbf<br>axial |                                                           |
|                            |                                                                     | <i>H</i>           | <i>J</i>   | <i>A</i> <sub>1</sub> | <i>N</i> <sup>(1)</sup> | <i>A</i>    | <i>B</i>     | <i>S</i>     | <i>H</i> <sub>1</sub><br>min. |              |                          |              |                                                           |
| mm<br>inch                 |                                                                     |                    |            |                       |                         |             |              |              |                               | mm<br>inch   |                          |              |                                                           |
| 12<br>1½                   | ASPF201<br>ASPF201-008                                              | 81<br>3⅜           | 63.5<br>2½ | 4<br>0.157            | 7.1<br>9/32             | 14<br>9/16  | 22<br>0.8661 | 6<br>0.236   | 49<br>1⅝                      | M6<br>¼      | 2 700<br>600             | 1 350<br>300 | AS201<br>AS201-008                                        |
| 15<br>9/16<br>5/8          | ASPF202<br>ASPF202-009<br>ASPF202-010                               | 81<br>3⅜           | 63.5<br>2½ | 4<br>0.157            | 7.1<br>9/32             | 14<br>9/16  | 22<br>0.8661 | 6<br>0.236   | 49<br>1⅝                      | M6<br>¼      | 2 700<br>600             | 1 350<br>300 | AS202<br>AS202-009<br>AS202-010                           |
| 17<br>1⅛                   | ASPF203<br>ASPF203-011                                              | 81<br>3⅜           | 63.5<br>2½ | 4<br>0.157            | 7.1<br>9/32             | 14<br>9/16  | 22<br>0.8661 | 6<br>0.236   | 49<br>1⅝                      | M6<br>¼      | 2 700<br>600             | 1 350<br>300 | AS203<br>AS203-011                                        |
| 20<br>¾                    | ASPF204<br>ASPF204-012                                              | 90<br>3⅝           | 71.5<br>2⅜ | 4<br>0.157            | 9<br>23/64              | 16<br>5/8   | 25<br>0.9843 | 7<br>0.276   | 56<br>2⅜                      | M8<br>5/16   | 3 000<br>660             | 1 500<br>330 | AS204<br>AS204-012                                        |
| 25<br>1⅜<br>7/8<br>1⅝<br>1 | ASPF205<br>ASPF205-013<br>ASPF205-014<br>ASPF205-015<br>ASPF205-100 | 95<br>3¾           | 76<br>2⅞   | 4<br>0.157            | 9<br>23/64              | 18<br>23/32 | 27<br>1.0630 | 7.5<br>0.295 | 60<br>2⅜                      | M8<br>5/16   | 4 000<br>880             | 2 000<br>440 | AS205<br>AS205-013<br>AS205-014<br>AS205-015<br>AS205-100 |
| 30<br>1⅛<br>1⅝<br>1⅜<br>1¼ | ASPF206<br>ASPF206-101<br>ASPF206-102<br>ASPF206-103<br>ASPF206-104 | 113<br>4⅞          | 90.5<br>3⅞ | 5.2<br>0.205          | 11<br>7/16              | 18<br>23/32 | 29<br>1.1417 | 8<br>0.315   | 71<br>2⅝                      | M10<br>3/8   | 5 000<br>1 100           | 2 500<br>550 | AS206<br>AS206-101<br>AS206-102<br>AS206-103<br>AS206-104 |
| 35<br>1¼<br>1⅝<br>1⅜<br>1⅞ | ASPF207<br>ASPF207-104<br>ASPF207-105<br>ASPF207-106<br>ASPF207-107 | 122<br>4⅞          | 100<br>3⅝  | 5.2<br>0.205          | 11<br>7/16              | 20<br>25/32 | 34<br>1.3386 | 8.5<br>0.335 | 81<br>3⅜                      | M10<br>3/8   | 6 000<br>1 300           | 3 000<br>650 | AS207<br>AS207-104<br>AS207-105<br>AS207-106<br>AS207-107 |
| 40<br>1½<br>1⅞             | ASPF208<br>ASPF208-108<br>ASPF208-109                               | 148<br>5⅜          | 119<br>4⅞  | 6.8<br>0.268          | 13.5<br>17/32           | 21<br>13/16 | 38<br>1.4961 | 9<br>0.354   | 91<br>3⅞                      | M12<br>½     | 7 000<br>1 500           | 3 500<br>750 | AS208<br>AS208-108<br>AS208-109                           |

Remarks: 1) ASPF208 has four bolt holes.

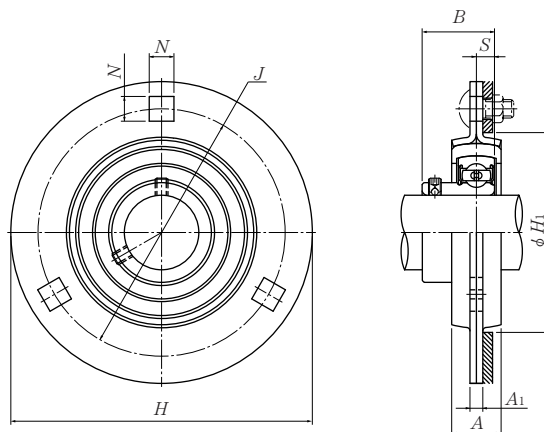
2) The permissible load only applies in applications where the load is stable and the speed is 2400 min<sup>-1</sup> or less.

| Housing<br>number | Mass<br>(approx.) |
|-------------------|-------------------|
|                   | kg lb             |
| PF203             | 0.2               |
| PF203             | 0.4               |
| PF203             | 0.2               |
| PF203             | 0.4               |
| PF203             | 0.4               |
| PF203             | 0.2               |
| PF203             | 0.4               |
| PF204             | 0.2               |
| PF204             | 0.4               |
| PF205             | 0.3               |
| PF205             |                   |
| PF205             | 0.7               |
| PF205             |                   |
| PF205             |                   |
| PF206             | 0.4               |
| PF206             |                   |
| PF206             | 0.9               |
| PF206             |                   |
| PF206             |                   |
| PF207             | 0.6               |
| PF207             |                   |
| PF207             | 1.3               |
| PF207             |                   |
| PF207             |                   |
| PF208             | 0.9               |
| PF208             | 2.0               |
| PF208             |                   |



# Round flanged units pressed steel housing with rubber ring

## Set screw type

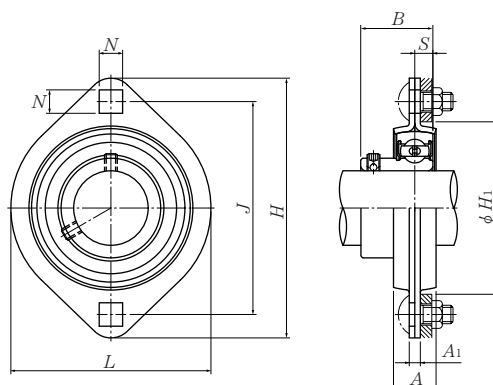


| Shaft<br>dia.                          | Unit number                                                              | Nominal dimensions |                 |                       |             |             |              |              |                               | Bolt<br>size | Max. load<br>recommended |              | Bearing<br>number                                         |
|----------------------------------------|--------------------------------------------------------------------------|--------------------|-----------------|-----------------------|-------------|-------------|--------------|--------------|-------------------------------|--------------|--------------------------|--------------|-----------------------------------------------------------|
|                                        |                                                                          | mm                 |                 |                       |             | inch        |              |              |                               |              | N<br>radial              | lbf<br>axial |                                                           |
|                                        |                                                                          | <i>H</i>           | <i>J</i>        | <i>A</i> <sub>1</sub> | <i>N</i>    | <i>A</i>    | <i>B</i>     | <i>S</i>     | <i>H</i> <sub>1</sub><br>min. |              |                          |              |                                                           |
| mm<br>inch                             |                                                                          |                    |                 |                       |             |             |              |              |                               | mm<br>inch   |                          |              |                                                           |
| 12<br>½                                | ASRPF201<br>ASRPF201-008                                                 | 90<br>3 17/32      | 71.5<br>2 13/16 | 4<br>0.157            | 9<br>2 3/64 | 16<br>5/8   | 22<br>0.8661 | 6<br>0.236   | 56<br>2 13/64                 | M 8<br>5/16  | 1 000<br>220             | 200<br>40    | AS201<br>AS201-008                                        |
| 15<br>9/16<br>5/8                      | ASRPF202<br>ASRPF202-009<br>ASRPF202-010                                 | 90<br>3 17/32      | 71.5<br>2 13/16 | 4<br>0.157            | 9<br>2 3/64 | 16<br>5/8   | 22<br>0.8661 | 6<br>0.236   | 56<br>2 13/64                 | M 8<br>5/16  | 1 000<br>220             | 200<br>40    | AS202<br>AS202-009<br>AS202-010                           |
| 17<br>1 1/16                           | ASRPF203<br>ASRPF203-011                                                 | 90<br>3 17/32      | 71.5<br>2 13/16 | 4<br>0.157            | 9<br>2 3/64 | 16<br>5/8   | 22<br>0.8661 | 6<br>0.236   | 56<br>2 13/64                 | M 8<br>5/16  | 1 000<br>220             | 200<br>40    | AS203<br>AS203-011                                        |
| 20<br>¾                                | ASRPF204<br>ASRPF204-012                                                 | 95<br>3 ¾          | 76<br>2 63/64   | 4<br>0.157            | 9<br>2 3/64 | 18<br>23/32 | 25<br>0.9843 | 7<br>0.276   | 60<br>2 23/64                 | M 8<br>5/16  | 1 150<br>250             | 200<br>40    | AS204<br>AS204-012                                        |
| 25<br>1 3/16<br>7/8<br>15/16<br>1      | ASRPF205<br>ASRPF205-013<br>ASRPF205-014<br>ASRPF205-015<br>ASRPF205-100 | 113<br>4 7/16      | 90.5<br>3 9/16  | 5.2<br>0.205          | 11<br>7/16  | 18<br>23/32 | 27<br>1.0630 | 7.5<br>0.295 | 71<br>2 51/64                 | M10<br>3/8   | 1 300<br>280             | 200<br>40    | AS205<br>AS205-013<br>AS205-014<br>AS205-015<br>AS205-100 |
| 30<br>1 1/16<br>1 1/8<br>1 3/16<br>1 ¼ | ASRPF206<br>ASRPF206-101<br>ASRPF206-102<br>ASRPF206-103<br>ASRPF206-104 | 122<br>4 13/16     | 100<br>3 15/16  | 5.2<br>0.205          | 11<br>7/16  | 20<br>25/32 | 29<br>1.1417 | 8<br>0.315   | 81<br>3 3/16                  | M10<br>3/8   | 1 500<br>330             | 200<br>40    | AS206<br>AS206-101<br>AS206-102<br>AS206-103<br>AS206-104 |

Remarks: 1) The permissible load only applies in applications where the load is stable and the speed is 2400 min<sup>-1</sup> or less.  
2) When an anti-vibration rubber ring is used, the self alignment capability will be reduce.

| Housing number |       | Mass<br>(approx.)<br><br>kg lb |
|----------------|-------|--------------------------------|
| rubber ring    | steel |                                |
| R201           | PF204 | 0.2                            |
| R201           | PF204 | 0.4                            |
| R201           | PF204 | 0.2                            |
| R201           | PF204 | 0.4                            |
| R201           | PF204 | 0.4                            |
| R201           | PF204 | 0.2                            |
| R201           | PF204 | 0.4                            |
| R204           | PF205 | 0.2                            |
| R204           | PF205 | 0.4                            |
| R205           | PF206 | 0.3                            |
| R205           | PF206 |                                |
| R205           | PF206 | 0.7                            |
| R205           | PF206 |                                |
| R205           | PF206 |                                |
| R206           | PF207 | 0.5                            |
| R206           | PF207 |                                |
| R206           | PF207 | 1.1                            |
| R206           | PF207 |                                |
| R206           | PF207 |                                |

# Rhombus flanged units pressed steel housing Set screw type



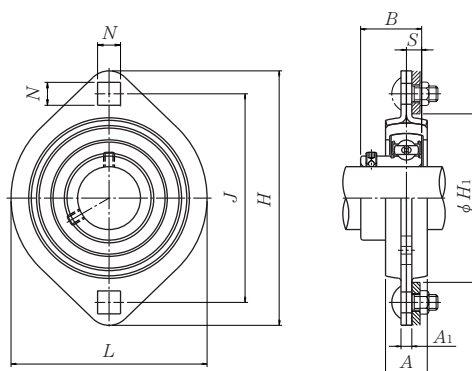
| Shaft<br>dia.              | Unit number                                                              | Nominal dimensions |            |                       |           |          |           |              |              |                               |          | Bolt<br>size   | Max. load<br>recommended |                                                           | Bearing<br>number |              |
|----------------------------|--------------------------------------------------------------------------|--------------------|------------|-----------------------|-----------|----------|-----------|--------------|--------------|-------------------------------|----------|----------------|--------------------------|-----------------------------------------------------------|-------------------|--------------|
|                            |                                                                          | mm                 |            |                       |           |          | inch      |              |              |                               |          |                | mm<br>inch               | N<br>radial                                               |                   | lbf<br>axial |
|                            |                                                                          | <i>H</i>           | <i>J</i>   | <i>A</i> <sub>1</sub> | <i>N</i>  | <i>A</i> | <i>L</i>  | <i>B</i>     | <i>S</i>     | <i>H</i> <sub>1</sub><br>min. |          |                |                          |                                                           |                   |              |
| mm<br>inch                 |                                                                          |                    |            |                       |           |          |           |              |              |                               |          |                |                          |                                                           |                   |              |
| 12<br>½                    | ASPFL201<br>ASPFL201-008                                                 | 81<br>3⅜           | 63.5<br>2½ | 4<br>0.157            | 7.1<br>⅜  | 14<br>⅞  | 59<br>2⅝  | 22<br>0.8661 | 6<br>0.236   | 49<br>1⅝                      | M 6<br>¼ | 2 700<br>600   | 1 350<br>300             | AS201<br>AS201-008                                        |                   |              |
| 15<br>⅞<br>⅝               | ASPFL202<br>ASPFL202-009<br>ASPFL202-010                                 | 81<br>3⅜           | 63.5<br>2½ | 4<br>0.157            | 7.1<br>⅜  | 14<br>⅞  | 59<br>2⅝  | 22<br>0.8661 | 6<br>0.236   | 49<br>1⅝                      | M 6<br>¼ | 2 700<br>600   | 1 350<br>300             | AS202<br>AS202-009<br>AS202-010                           |                   |              |
| 17<br>1⅛                   | ASPFL203<br>ASPFL203-011                                                 | 81<br>3⅜           | 63.5<br>2½ | 4<br>0.157            | 7.1<br>⅜  | 14<br>⅞  | 59<br>2⅝  | 22<br>0.8661 | 6<br>0.236   | 49<br>1⅝                      | M 6<br>¼ | 2 700<br>600   | 1 350<br>300             | AS203<br>AS203-011                                        |                   |              |
| 20<br>¾                    | ASPFL204<br>ASPFL204-012                                                 | 90<br>3⅞           | 71.5<br>2⅞ | 4<br>0.157            | 9<br>⅜    | 16<br>⅝  | 67<br>2⅝  | 25<br>0.9843 | 7<br>0.276   | 56<br>2⅜                      | M 8<br>⅝ | 3 000<br>660   | 1 500<br>330             | AS204<br>AS204-012                                        |                   |              |
| 25<br>1⅜<br>⅞<br>1⅝<br>1   | ASPFL205<br>ASPFL205-013<br>ASPFL205-014<br>ASPFL205-015<br>ASPFL205-100 | 95<br>3¾           | 76<br>2⅞   | 4<br>0.157            | 9<br>⅜    | 18<br>⅞  | 71<br>2⅝  | 27<br>1.0630 | 7.5<br>0.295 | 60<br>2⅜                      | M 8<br>⅝ | 4 000<br>880   | 2 000<br>440             | AS205<br>AS205-013<br>AS205-014<br>AS205-015<br>AS205-100 |                   |              |
| 30<br>1⅛<br>1⅛<br>1⅜<br>1¼ | ASPFL206<br>ASPFL206-101<br>ASPFL206-102<br>ASPFL206-103<br>ASPFL206-104 | 113<br>4⅞          | 90.5<br>3⅞ | 5.2<br>0.205          | 11<br>⅞   | 18<br>⅞  | 84<br>3⅝  | 29<br>1.1417 | 8<br>0.315   | 71<br>2⅝                      | M10<br>⅜ | 5 000<br>1 100 | 2 500<br>550             | AS206<br>AS206-101<br>AS206-102<br>AS206-103<br>AS206-104 |                   |              |
| 35<br>1¼<br>1⅝<br>1⅜<br>1⅞ | ASPFL207<br>ASPFL207-104<br>ASPFL207-105<br>ASPFL207-106<br>ASPFL207-107 | 122<br>4⅞          | 100<br>3⅝  | 5.2<br>0.205          | 11<br>⅞   | 20<br>⅝  | 94<br>3⅞  | 34<br>1.3386 | 8.5<br>0.335 | 81<br>3⅝                      | M10<br>⅜ | 6 000<br>1 300 | 3 000<br>650             | AS207<br>AS207-104<br>AS207-105<br>AS207-106<br>AS207-107 |                   |              |
| 40<br>1½<br>1⅞             | ASPFL208<br>ASPFL208-108<br>ASPFL208-109                                 | 148<br>5⅝          | 119<br>4⅞  | 6.8<br>0.268          | 13.5<br>⅞ | 21<br>⅝  | 100<br>3⅝ | 38<br>1.4961 | 9<br>0.354   | 91<br>3⅞                      | M12<br>½ | 6 000<br>1 300 | 3 000<br>650             | AS208<br>AS208-108<br>AS208-109                           |                   |              |

Remarks: 1) The permissible load only applies in applications where the load is stable and the speed is 2400 min<sup>-1</sup> or less.

| Housing<br>number | Mass<br>(approx.) |
|-------------------|-------------------|
|                   | kg lb             |
| PFL203            | 0.2               |
| PFL203            | 0.4               |
| PFL203            | 0.2               |
| PFL203            | 0.4               |
| PFL203            | 0.4               |
| PFL203            | 0.2               |
| PFL203            | 0.4               |
| PFL204            | 0.2               |
| PFL204            | 0.4               |
| PFL205            | 0.3               |
| PFL205            |                   |
| PFL205            | 0.7               |
| PFL205            |                   |
| PFL205            |                   |
| PFL206            | 0.4               |
| PFL206            |                   |
| PFL206            | 0.9               |
| PFL206            |                   |
| PFL206            |                   |
| PFL207            | 0.6               |
| PFL207            |                   |
| PFL207            | 1.3               |
| PFL207            |                   |
| PFL207            |                   |
| PFL208            | 0.8               |
| PFL208            | 1.4               |
| PFL208            |                   |

# Rhombus flanged units pressed steel housing with rubber ring

## Set screw type

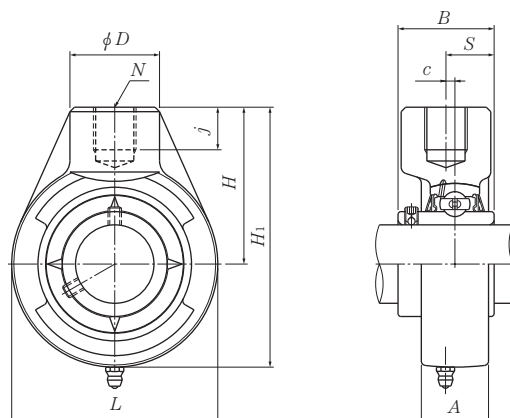


| Shaft<br>dia.                            | Unit number                                                                   | Nominal dimensions |                 |                       |               |             |                |              |              |                               |             | Bolt<br>size | Max. load<br>recommended |                                                           | Bearing<br>number |              |
|------------------------------------------|-------------------------------------------------------------------------------|--------------------|-----------------|-----------------------|---------------|-------------|----------------|--------------|--------------|-------------------------------|-------------|--------------|--------------------------|-----------------------------------------------------------|-------------------|--------------|
|                                          |                                                                               | mm                 |                 |                       |               |             | inch           |              |              |                               |             |              | mm<br>inch               | N<br>radial                                               |                   | lbf<br>axial |
|                                          |                                                                               | <i>H</i>           | <i>J</i>        | <i>A</i> <sub>1</sub> | <i>N</i>      | <i>A</i>    | <i>L</i>       | <i>B</i>     | <i>S</i>     | <i>H</i> <sub>1</sub><br>min. |             |              |                          |                                                           |                   |              |
| 12<br>1/2                                | ASRPFL201<br>ASRPFL201-008                                                    | 90<br>3 17/32      | 71.5<br>2 13/16 | 4<br>0.157            | 9<br>23/64    | 16<br>5/8   | 67<br>2 5/8    | 25<br>0.9843 | 7<br>0.276   | 56<br>2 13/64                 | M 8<br>5/16 | 1 000<br>220 | 200<br>40                | AS201<br>AS201-008                                        |                   |              |
| 15<br>9/16<br>5/8                        | ASRPFL202<br>ASRPFL202-009<br>ASRPFL202-010                                   | 90<br>3 17/32      | 71.5<br>2 13/16 | 4<br>0.157            | 9<br>23/64    | 16<br>5/8   | 67<br>2 5/8    | 25<br>0.9843 | 7<br>0.276   | 56<br>2 13/64                 | M 8<br>5/16 | 1 000<br>220 | 200<br>40                | AS202<br>AS202-009<br>AS202-010                           |                   |              |
| 17<br>1 1/16                             | ASRPFL203<br>ASRPFL203-011                                                    | 90<br>3 17/32      | 71.5<br>2 13/16 | 4<br>0.157            | 9<br>23/64    | 16<br>5/8   | 67<br>2 5/8    | 25<br>0.9843 | 7<br>0.276   | 56<br>2 13/64                 | M 8<br>5/16 | 1 000<br>220 | 200<br>40                | AS203<br>AS203-011                                        |                   |              |
| 20<br>3/4                                | ASRPFL204<br>ASRPFL204-012                                                    | 95<br>3 3/4        | 76<br>2 63/64   | 4<br>0.157            | 9<br>23/64    | 18<br>23/32 | 71<br>2 25/32  | 27<br>1.0630 | 7.5<br>0.295 | 60<br>2 23/64                 | M 8<br>5/16 | 1 150<br>250 | 200<br>40                | AS204<br>AS204-012                                        |                   |              |
| 25<br>1 3/16<br>7/8<br>15/16<br>1        | ASRPFL205<br>ASRPFL205-013<br>ASRPFL205-014<br>ASRPFL205-015<br>ASRPFL205-100 | 113<br>4 7/16      | 90.5<br>3 9/16  | 5.2<br>0.205          | 11<br>7/16    | 18<br>23/32 | 84<br>3 5/16   | 29<br>1.1417 | 8<br>0.315   | 71<br>2 51/64                 | M10<br>3/8  | 1 300<br>280 | 200<br>40                | AS205<br>AS205-013<br>AS205-014<br>AS205-015<br>AS205-100 |                   |              |
| 30<br>1 1/16<br>1 1/8<br>1 3/16<br>1 1/4 | ASRPFL206<br>ASRPFL206-101<br>ASRPFL206-102<br>ASRPFL206-103<br>ASRPFL206-104 | 122<br>4 13/16     | 100<br>3 15/16  | 5.2<br>0.205          | 11<br>7/16    | 20<br>25/32 | 94<br>3 11/16  | 34<br>1.3386 | 8.5<br>0.335 | 81<br>2 3/16                  | M10<br>3/8  | 1 500<br>330 | 200<br>40                | AS206<br>AS206-101<br>AS206-102<br>AS206-103<br>AS206-104 |                   |              |
| 35<br>1 1/4<br>1 5/16<br>1 3/8<br>1 7/16 | ASRPFL207<br>ASRPFL207-104<br>ASRPFL207-105<br>ASRPFL207-106<br>ASRPFL207-107 | 148<br>5 53/64     | 119<br>4 11/16  | 6.8<br>0.268          | 13.5<br>17/32 | 21<br>53/64 | 100<br>3 15/16 | 38<br>1.4961 | 9<br>0.354   | 91<br>3 37/64                 | M12<br>1/2  | 1 500<br>330 | 200<br>40                | AS207<br>AS207-104<br>AS207-105<br>AS207-106<br>AS207-107 |                   |              |

Remarks: 1) The permissible load only applies in applications where the load is stable and the speed is 2400 min<sup>-1</sup> or less.

| Housing number |        | Mass<br>(approx.) |
|----------------|--------|-------------------|
| Rubber         | Steel  |                   |
| R201           | PFL204 | 0.2               |
| R201           | PFL204 | 0.4               |
| R201           | PFL204 | 0.2               |
| R201           | PFL204 | 0.4               |
| R201           | PFL204 | 0.4               |
| R204           | PFL205 | 0.2               |
| R204           | PFL205 | 0.4               |
| R205           | PFL206 | 0.3               |
| R205           | PFL206 |                   |
| R205           | PFL206 | 0.7               |
| R205           | PFL206 |                   |
| R205           | PFL206 |                   |
| R206           | PFL207 | 0.4               |
| R206           | PFL207 |                   |
| R206           | PFL207 | 0.9               |
| R206           | PFL207 |                   |
| R206           | PFL207 |                   |
| R207           | PFL208 | 0.6               |
| R207           | PFL208 |                   |
| R207           | PFL208 | 1.3               |
| R207           | PFL208 |                   |
| R207           | PFL208 |                   |

# **Hanger units cast housing** **Set screw type**



| Shaft<br>dia.                                   | Unit number <sup>1)</sup>                                                                                        | Nominal dimensions |                       |           |              |               |                  |              |              |                |               | Bearing number                                                             |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------|-----------|--------------|---------------|------------------|--------------|--------------|----------------|---------------|----------------------------------------------------------------------------|
|                                                 |                                                                                                                  | mm                 |                       |           |              |               | inch             |              |              |                |               |                                                                            |
|                                                 |                                                                                                                  | <i>L</i>           | <i>H</i> <sub>1</sub> | <i>c</i>  | <i>A</i>     | <i>H</i>      | <i>N</i>         | <i>D</i>     | <i>j</i>     | <i>B</i>       | <i>S</i>      |                                                                            |
| <b>12</b><br>1/2                                | <b>UCHB201D1</b><br><b>UCHB201-008D1</b>                                                                         | 64<br>2 17/32      | 96<br>3 25/32         | 0<br>0    | 21<br>13/16  | 64<br>2 33/64 | RP 3/4<br>RP 3/4 | 40<br>1 9/16 | 19<br>3/4    | 31<br>1.2205   | 12.7<br>0.500 | <b>UC201D1</b><br>UC201-008D1                                              |
| <b>15</b><br>9/16<br>5/8                        | <b>UCHB202D1</b><br><b>UCHB202-009D1</b><br><b>UCHB202-010D1</b>                                                 | 64<br>2 17/32      | 96<br>3 25/32         | 0<br>0    | 21<br>13/16  | 64<br>2 33/64 | RP 3/4<br>RP 3/4 | 40<br>1 9/16 | 19<br>3/4    | 31<br>1.2205   | 12.7<br>0.500 | <b>UC202D1</b><br>UC202-009D1<br>UC202-010D1                               |
| <b>17</b><br>1 1/16                             | <b>UCHB203D1</b><br><b>UCHB203-011D1</b>                                                                         | 64<br>2 17/32      | 96<br>3 25/32         | 0<br>0    | 21<br>13/16  | 64<br>2 33/64 | RP 3/4<br>RP 3/4 | 40<br>1 9/16 | 19<br>3/4    | 31<br>1.2205   | 12.7<br>0.500 | <b>UC203D1</b><br>UC203-011D1                                              |
| <b>20</b><br>3/4                                | <b>UCHB204D1</b><br><b>UCHB204-012D1</b>                                                                         | 64<br>2 17/32      | 96<br>3 25/32         | 0<br>0    | 21<br>13/16  | 64<br>2 33/64 | RP 3/4<br>RP 3/4 | 40<br>1 9/16 | 19<br>3/4    | 31<br>1.2205   | 12.7<br>0.500 | <b>UC204D1</b><br>UC204-012D1                                              |
| <b>25</b><br>1 3/16<br>7/8<br>1 5/16<br>1       | <b>UCHB205D1</b><br><b>UCHB205-013D1</b><br><b>UCHB205-014D1</b><br><b>UCHB205-015D1</b><br><b>UCHB205-100D1</b> | 78<br>3 1/16       | 103<br>4 1/16         | 0<br>0    | 24<br>1 5/16 | 64<br>2 33/64 | RP 3/4<br>RP 3/4 | 40<br>1 9/16 | 19<br>3/4    | 34.1<br>1.3425 | 14.3<br>0.563 | <b>UC205D1</b><br>UC205-013D1<br>UC205-014D1<br>UC205-015D1<br>UC205-100D1 |
| <b>30</b><br>1 1/16<br>1 1/8<br>1 3/16<br>1 1/4 | <b>UCHB206D1</b><br><b>UCHB206-101D1</b><br><b>UCHB206-102D1</b><br><b>UCHB206-103D1</b><br><b>UCHB206-104D1</b> | 78<br>3 1/16       | 103<br>4 1/16         | 0<br>0    | 28<br>1 3/32 | 64<br>2 33/64 | RP 3/4<br>RP 3/4 | 40<br>1 9/16 | 19<br>3/4    | 38.1<br>1.5000 | 15.9<br>0.626 | <b>UC206D1</b><br>UC206-101D1<br>UC206-102D1<br>UC206-103D1<br>UC206-104D1 |
| <b>35</b><br>1 1/4<br>1 5/16<br>1 3/8<br>1 7/16 | <b>UCHB207D1</b><br><b>UCHB207-104D1</b><br><b>UCHB207-105D1</b><br><b>UCHB207-106D1</b><br><b>UCHB207-107D1</b> | 92<br>3 5/8        | 116<br>4 9/16         | 0<br>0    | 30<br>1 3/16 | 70<br>2 3/4   | RP 3/4<br>RP 3/4 | 40<br>1 9/16 | 19<br>3/4    | 42.9<br>1.6890 | 17.5<br>0.689 | <b>UC207D1</b><br>UC207-104D1<br>UC207-105D1<br>UC207-106D1<br>UC207-107D1 |
| <b>40</b><br>1 1/2<br>1 9/16                    | <b>UCHB208D1</b><br><b>UCHB208-108D1</b><br><b>UCHB208-109D1</b>                                                 | 96<br>3 25/32      | 121<br>4 3/4          | 2<br>3/32 | 33<br>1 5/16 | 73<br>2 7/8   | RP 3/4<br>RP 3/4 | 40<br>1 9/16 | 19<br>3/4    | 49.2<br>1.9370 | 19<br>0.748   | <b>UC208D1</b><br>UC208-108D1<br>UC208-109D1                               |
| <b>45</b><br>1 5/8<br>1 11/16<br>1 3/4          | <b>UCHB209D1</b><br><b>UCHB209-110D1</b><br><b>UCHB209-111D1</b><br><b>UCHB209-112D1</b>                         | 108<br>4 1/4       | 136<br>5 11/32        | 5<br>3/16 | 35<br>1 3/8  | 82<br>3 15/64 | RP 1<br>RP 1     | 48<br>1 7/8  | 21<br>1 3/16 | 49.2<br>1.9370 | 19<br>0.748   | <b>UC209D1</b><br>UC209-110D1<br>UC209-111D1<br>UC209-112D1                |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

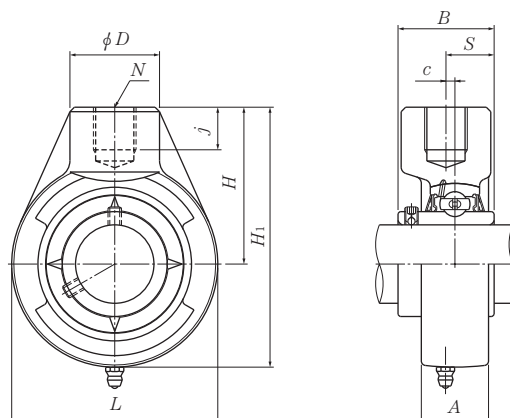
Note: Please refer to page 36 for size of grease fitting.

| Housing<br>number <sup>1)</sup> | Mass<br>(approx.) |
|---------------------------------|-------------------|
|                                 | kg lb             |
| HB204D1                         | 1.0               |
| HB204D1                         | 2.2               |
| HB204D1                         | 0.9               |
| HB204D1                         | 2.0               |
| HB204D1                         | 0.9               |
| HB204D1                         | 2.0               |
| HB204D1                         | 0.9               |
| HB204D1                         | 2.0               |
| HB205D1                         | 0.9               |
| HB205D1                         |                   |
| HB205D1                         | 2.0               |
| HB205D1                         |                   |
| HB205D1                         |                   |
| HB206D1                         | 0.8               |
| HB206D1                         |                   |
| HB206D1                         | 1.8               |
| HB206D1                         |                   |
| HB206D1                         |                   |
| HB207D1                         | 1.2               |
| HB207D1                         |                   |
| HB207D1                         | 2.7               |
| HB207D1                         |                   |
| HB207D1                         |                   |
| HB208D1                         | 1.3               |
| HB208D1                         | 2.9               |
| HB208D1                         |                   |
| HB209D1                         | 1.8               |
| HB209D1                         |                   |
| HB209D1                         | 4.0               |
| HB209D1                         |                   |

| Nominal<br>Designation<br>of Thread    | Nominal dimensions mm                   |                   |                                         |
|----------------------------------------|-----------------------------------------|-------------------|-----------------------------------------|
|                                        | Major Diameter<br>of Internal<br>Thread | Pitch<br>Diameter | Minor Diameter<br>of Internal<br>Thread |
| Rp $\frac{3}{4}$ (PS $\frac{3}{4}$ )   | 26.441                                  | 25.279            | 24.117                                  |
| Rp1 (PS1)                              | 33.249                                  | 31.770            | 30.291                                  |
| Rp1 $\frac{1}{4}$ (PS1 $\frac{1}{4}$ ) | 41.910                                  | 40.431            | 38.952                                  |
| Rp1 $\frac{1}{2}$ (PS1 $\frac{1}{2}$ ) | 47.803                                  | 46.324            | 44.845                                  |



## **Hanger units cast housing** **Set screw type**



| Shaft<br>dia.                         | Unit number <sup>1)</sup> | Nominal dimensions              |                                 |                                |                                 |                                 |                                 |                               |                                |          |          | Bearing number |
|---------------------------------------|---------------------------|---------------------------------|---------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|-------------------------------|--------------------------------|----------|----------|----------------|
| mm<br>inch                            |                           | mm                              |                                 |                                |                                 |                                 | inch                            |                               |                                |          |          |                |
|                                       |                           | <i>L</i>                        | <i>H</i> <sub>1</sub>           | <i>c</i>                       | <i>A</i>                        | <i>H</i>                        | <i>N</i>                        | <i>D</i>                      | <i>j</i>                       | <i>B</i> | <i>S</i> |                |
| 50<br>1 <sup>13</sup> / <sub>16</sub> | UCHB210D1                 | 118                             | 142                             | 5                              | 37                              | 83                              | RP1                             | 48                            | 21                             | 51.6     | 19       | UC210D1        |
| 1 <sup>7</sup> / <sub>8</sub>         | UCHB210-113D1             |                                 |                                 |                                |                                 |                                 |                                 |                               |                                |          |          | UC210-113D1    |
| 1 <sup>15</sup> / <sub>16</sub>       | UCHB210-114D1             | 4 <sup>21</sup> / <sub>32</sub> | 5 <sup>19</sup> / <sub>32</sub> | <sup>3</sup> / <sub>16</sub>   | 1 <sup>15</sup> / <sub>32</sub> | 3 <sup>17</sup> / <sub>64</sub> | RP1                             | 1 <sup>7</sup> / <sub>8</sub> | <sup>13</sup> / <sub>16</sub>  | 2.0315   | 0.748    | UC210-114D1    |
|                                       | UCHB210-115D1             |                                 |                                 |                                |                                 |                                 |                                 |                               |                                |          |          | UC210-115D1    |
| 2                                     | UCHB210-200D1             |                                 |                                 |                                |                                 |                                 |                                 |                               |                                |          |          | UC210-200D1    |
| 55<br>2                               | UCHB211D1                 | 126                             | 158                             | 7                              | 38                              | 95                              | RP1 <sup>1</sup> / <sub>4</sub> | 60                            | 25                             | 55.6     | 22.2     | UC211D1        |
| 2 <sup>1</sup> / <sub>16</sub>        | UCHB211-200D1             |                                 |                                 |                                |                                 |                                 |                                 |                               |                                |          |          | UC211-200D1    |
| 2 <sup>1</sup> / <sub>8</sub>         | UCHB211-201D1             | 4 <sup>31</sup> / <sub>32</sub> | 6 <sup>7</sup> / <sub>32</sub>  | <sup>9</sup> / <sub>32</sub>   | 1 <sup>1</sup> / <sub>2</sub>   | 3 <sup>47</sup> / <sub>64</sub> | RP1 <sup>1</sup> / <sub>4</sub> | 2 <sup>3</sup> / <sub>8</sub> | <sup>31</sup> / <sub>32</sub>  | 2.1890   | 0.874    | UC211-201D1    |
| 2 <sup>3</sup> / <sub>16</sub>        | UCHB211-202D1             |                                 |                                 |                                |                                 |                                 |                                 |                               |                                |          |          | UC211-202D1    |
|                                       | UCHB211-203D1             |                                 |                                 |                                |                                 |                                 |                                 |                               |                                |          |          | UC211-203D1    |
| 60<br>2 <sup>1</sup> / <sub>4</sub>   | UCHB212D1                 | 142                             | 173                             | 9                              | 42                              | 102                             | RP1 <sup>1</sup> / <sub>4</sub> | 60                            | 28                             | 65.1     | 25.4     | UC212D1        |
| 2 <sup>5</sup> / <sub>16</sub>        | UCHB212-204D1             |                                 |                                 |                                |                                 |                                 |                                 |                               |                                |          |          | UC212-204D1    |
| 2 <sup>3</sup> / <sub>8</sub>         | UCHB212-205D1             | 5 <sup>19</sup> / <sub>32</sub> | 6 <sup>13</sup> / <sub>16</sub> | 1 <sup>1</sup> / <sub>32</sub> | 1 <sup>21</sup> / <sub>32</sub> | 4 <sup>1</sup> / <sub>64</sub>  | RP1 <sup>1</sup> / <sub>4</sub> | 2 <sup>3</sup> / <sub>8</sub> | 1 <sup>3</sup> / <sub>32</sub> | 2.5630   | 1.000    | UC212-205D1    |
| 2 <sup>7</sup> / <sub>16</sub>        | UCHB212-206D1             |                                 |                                 |                                |                                 |                                 |                                 |                               |                                |          |          | UC212-206D1    |
|                                       | UCHB212-207D1             |                                 |                                 |                                |                                 |                                 |                                 |                               |                                |          |          | UC212-207D1    |
| 65<br>2 <sup>1</sup> / <sub>2</sub>   | UCHB213D1                 | 166                             | 200                             | 9.5                            | 44                              | 117                             | RP1 <sup>1</sup> / <sub>2</sub> | 70                            | 32                             | 65.1     | 25.4     | UC213D1        |
|                                       | UCHB213-208D1             | 6 <sup>17</sup> / <sub>32</sub> | 7 <sup>7</sup> / <sub>8</sub>   | <sup>3</sup> / <sub>8</sub>    | 1 <sup>23</sup> / <sub>32</sub> | 4 <sup>39</sup> / <sub>64</sub> | RP1 <sup>1</sup> / <sub>2</sub> | 2 <sup>3</sup> / <sub>4</sub> | 1 <sup>1</sup> / <sub>4</sub>  | 2.5630   | 1.000    | UC213-208D1    |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

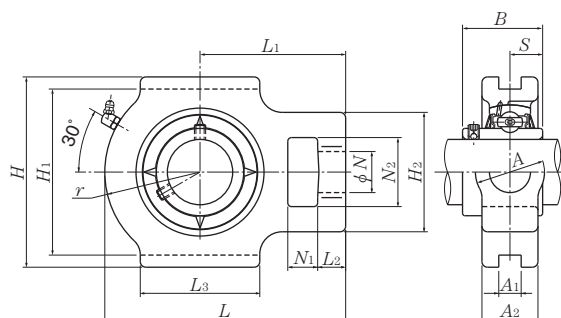
Note: Please refer to page 36 for size of grease fitting.

| Housing<br>number <sup>1)</sup> | Mass<br>(approx.) |
|---------------------------------|-------------------|
|                                 | kg lb             |
| HB210D1                         | 2.2               |
| HB210D1                         |                   |
| HB210D1                         | 4.9               |
| HB210D1                         |                   |
| HB210D1                         |                   |
| HB211D1                         | 2.8               |
| HB211D1                         |                   |
| HB211D1                         | 6.2               |
| HB211D1                         |                   |
| HB211D1                         |                   |
| HB212D1                         | 3.7               |
| HB212D1                         |                   |
| HB212D1                         | 8.2               |
| HB212D1                         |                   |
| HB212D1                         |                   |
| HB213D1                         | 5.7               |
| HB213D1                         | 12.6              |

| Nominal<br>Designation<br>of Thread    | Nominal dimensions mm                   |                   |                                         |
|----------------------------------------|-----------------------------------------|-------------------|-----------------------------------------|
|                                        | Major Diameter<br>of Internal<br>Thread | Pitch<br>Diameter | Minor Diameter<br>of Internal<br>Thread |
| Rp $\frac{3}{4}$ (PS $\frac{3}{4}$ )   | 26.441                                  | 25.279            | 24.117                                  |
| Rp1(PS1)                               | 33.249                                  | 31.770            | 30.291                                  |
| Rp1 $\frac{1}{4}$ (PS1 $\frac{1}{4}$ ) | 41.910                                  | 40.431            | 38.952                                  |
| Rp1 $\frac{1}{2}$ (PS1 $\frac{1}{2}$ ) | 47.803                                  | 46.324            | 44.845                                  |

# Take-up units cast housing

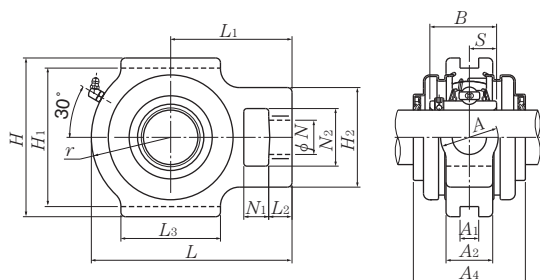
## Set screw type



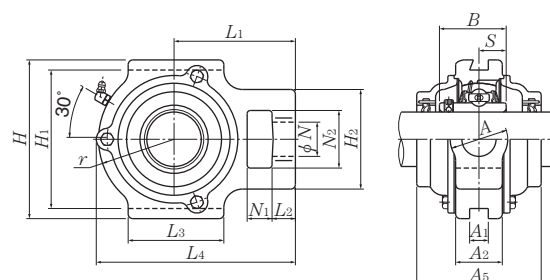
| Shaft<br>dia.                                                                       | Unit number <sup>1)</sup>                                                                                   | Nominal dimensions  |                       |                        |                        |                     |                        |                |                        |                        |                        |                       |                        |                        |                        |                |               |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|------------------------|------------------------|---------------------|------------------------|----------------|------------------------|------------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------|---------------|
|                                                                                     |                                                                                                             | mm                  |                       |                        |                        |                     |                        |                |                        | inch                   |                        |                       |                        |                        |                        |                |               |
|                                                                                     |                                                                                                             | N <sub>1</sub>      | L <sub>2</sub>        | H <sub>2</sub>         | N <sub>2</sub>         | N                   | L <sub>3</sub>         | A <sub>1</sub> | H <sub>1</sub>         | H                      | L                      | A <sub>2</sub>        | A                      | r                      | L <sub>1</sub>         | B              | S             |
| <b>12</b><br>$\frac{1}{2}$                                                          | <b>UCT201D1</b><br><b>UCT201-008D1</b>                                                                      | 16<br>$\frac{5}{8}$ | 12<br>$\frac{15}{32}$ | 51<br>2                | 32<br>$1\frac{1}{4}$   | 19<br>$\frac{3}{4}$ | 51<br>2                | 12<br>0.472    | 76<br>$2\frac{63}{64}$ | 89<br>$3\frac{1}{2}$   | 94<br>$3\frac{11}{16}$ | 21<br>$\frac{13}{16}$ | 32<br>$1\frac{1}{4}$   | 33<br>$1\frac{5}{16}$  | 61<br>$2\frac{13}{32}$ | 31<br>1.2205   | 12.7<br>0.500 |
| <b>15</b><br>$\frac{9}{16}$<br>$\frac{5}{8}$                                        | <b>UCT202D1</b><br><b>UCT202-009D1</b><br><b>UCT202-010D1</b>                                               | 16<br>$\frac{5}{8}$ | 12<br>$\frac{15}{32}$ | 51<br>2                | 32<br>$1\frac{1}{4}$   | 19<br>$\frac{3}{4}$ | 51<br>2                | 12<br>0.472    | 76<br>$2\frac{63}{64}$ | 89<br>$3\frac{1}{2}$   | 94<br>$3\frac{11}{16}$ | 21<br>$\frac{13}{16}$ | 32<br>$1\frac{1}{4}$   | 33<br>$1\frac{5}{16}$  | 61<br>$2\frac{13}{32}$ | 31<br>1.2205   | 12.7<br>0.500 |
| <b>17</b><br>$\frac{11}{16}$                                                        | <b>UCT203D1</b><br><b>UCT203-011D1</b>                                                                      | 16<br>$\frac{5}{8}$ | 12<br>$\frac{15}{32}$ | 51<br>2                | 32<br>$1\frac{1}{4}$   | 19<br>$\frac{3}{4}$ | 51<br>2                | 12<br>0.472    | 76<br>$2\frac{63}{64}$ | 89<br>$3\frac{1}{2}$   | 94<br>$3\frac{11}{16}$ | 21<br>$\frac{13}{16}$ | 32<br>$1\frac{1}{4}$   | 33<br>$1\frac{5}{16}$  | 61<br>$2\frac{13}{32}$ | 31<br>1.2205   | 12.7<br>0.500 |
| <b>20</b><br>$\frac{3}{4}$                                                          | <b>UCT204D1</b><br><b>UCT204-012D1</b>                                                                      | 16<br>$\frac{5}{8}$ | 12<br>$\frac{15}{32}$ | 51<br>2                | 32<br>$1\frac{1}{4}$   | 19<br>$\frac{3}{4}$ | 51<br>2                | 12<br>0.472    | 76<br>$2\frac{63}{64}$ | 89<br>$3\frac{1}{2}$   | 94<br>$3\frac{11}{16}$ | 21<br>$\frac{13}{16}$ | 32<br>$1\frac{1}{4}$   | 33<br>$1\frac{5}{16}$  | 61<br>$2\frac{13}{32}$ | 31<br>1.2205   | 12.7<br>0.500 |
| <b>25</b><br>$\frac{13}{16}$<br>$\frac{7}{8}$<br>$\frac{15}{16}$<br>1               | <b>UCT205D1</b><br><b>UCT205-013D1</b><br><b>UCT205-014D1</b><br><b>UCT205-015D1</b><br><b>UCT205-100D1</b> | 16<br>$\frac{5}{8}$ | 12<br>$\frac{15}{32}$ | 51<br>2                | 32<br>$1\frac{1}{4}$   | 19<br>$\frac{3}{4}$ | 51<br>2                | 12<br>0.472    | 76<br>$2\frac{63}{64}$ | 89<br>$3\frac{1}{2}$   | 97<br>$3\frac{13}{16}$ | 24<br>$\frac{15}{16}$ | 32<br>$1\frac{1}{4}$   | 35<br>$1\frac{3}{8}$   | 62<br>$2\frac{7}{16}$  | 34.1<br>1.3425 | 14.3<br>0.563 |
| <b>30</b><br>$1\frac{1}{16}$<br>$1\frac{1}{8}$<br>$1\frac{3}{16}$<br>$1\frac{1}{4}$ | <b>UCT206D1</b><br><b>UCT206-101D1</b><br><b>UCT206-102D1</b><br><b>UCT206-103D1</b><br><b>UCT206-104D1</b> | 16<br>$\frac{5}{8}$ | 12<br>$\frac{15}{32}$ | 56<br>$2\frac{7}{32}$  | 37<br>$1\frac{15}{32}$ | 22<br>$\frac{7}{8}$ | 57<br>$2\frac{1}{4}$   | 12<br>0.472    | 89<br>$3\frac{1}{2}$   | 102<br>$4\frac{1}{32}$ | 113<br>$4\frac{7}{16}$ | 28<br>$1\frac{3}{32}$ | 37<br>$1\frac{15}{32}$ | 43<br>$1\frac{11}{16}$ | 70<br>$2\frac{3}{4}$   | 38.1<br>1.5000 | 15.9<br>0.626 |
| <b>35</b><br>$1\frac{1}{4}$<br>$1\frac{5}{16}$<br>$1\frac{3}{8}$<br>$1\frac{7}{16}$ | <b>UCT207D1</b><br><b>UCT207-104D1</b><br><b>UCT207-105D1</b><br><b>UCT207-106D1</b><br><b>UCT207-107D1</b> | 16<br>$\frac{5}{8}$ | 15<br>$\frac{19}{32}$ | 64<br>$2\frac{17}{32}$ | 37<br>$1\frac{15}{32}$ | 22<br>$\frac{7}{8}$ | 64<br>$2\frac{17}{32}$ | 12<br>0.472    | 89<br>$3\frac{1}{2}$   | 102<br>$4\frac{1}{32}$ | 129<br>$5\frac{3}{32}$ | 30<br>$1\frac{3}{16}$ | 37<br>$1\frac{15}{32}$ | 51<br>2                | 78<br>$3\frac{1}{16}$  | 42.9<br>1.6890 | 17.5<br>0.689 |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

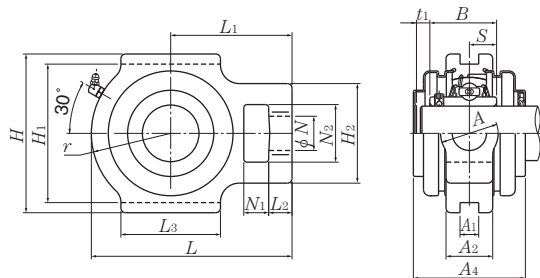
Note: Please refer to page 36 for size of grease fitting.



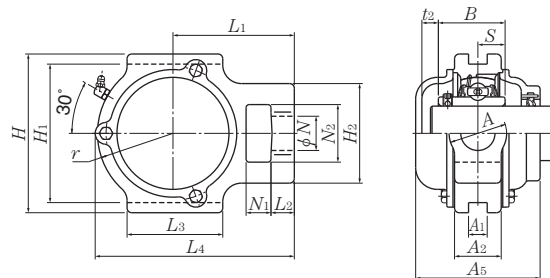
Press steel dust cover type (Open end)  
S-UCT...D1



Cast dust cover type (Open end)  
C-UCT...D1



Press steel dust cover type (Close end)  
SM-UCT...D1

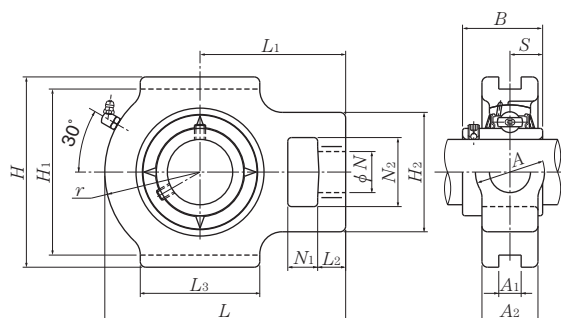


Cast dust cover type (Close end)  
CM-UCT...D1

| Bearing number | Housing number <sup>1)</sup> | Unit number <sup>1)</sup><br>pressed steel dust cover type | Unit number <sup>1)</sup><br>cast dust cover type | Nominal dimensions |                 |                  |                  |                  | Mass (approx.) |       |       |
|----------------|------------------------------|------------------------------------------------------------|---------------------------------------------------|--------------------|-----------------|------------------|------------------|------------------|----------------|-------|-------|
|                |                              |                                                            |                                                   | mm                 |                 | inch             |                  |                  | kg             |       | lb    |
|                |                              |                                                            |                                                   | t <sub>1</sub>     | t <sub>2</sub>  | A <sub>4</sub>   | L <sub>4</sub>   | A <sub>5</sub>   | UCT            | S(SM) | C(CM) |
| UC201D1        | T204D1                       | S(SM)-UCT201D1                                             | C(CM)-UCT201D1                                    | 5                  | 8               | 51               | 97               | 62               | 0.6            | 0.8   | 1.1   |
| UC201-008D1    | T204D1                       | S(SM)-UCT201-008D1                                         | C(CM)-UCT201-008D1                                | $1\frac{3}{64}$    | $\frac{5}{16}$  | 2                | $3\frac{13}{16}$ | $2\frac{7}{16}$  | 1.3            | 1.8   | 2.4   |
| UC202D1        | T204D1                       | S(SM)-UCT202D1                                             | C(CM)-UCT202D1                                    | 5                  | 8               | 51               | 97               | 62               | 0.6            | 0.8   | 1.1   |
| UC202-009D1    | T204D1                       | S(SM)-UCT202-009D1                                         | C(CM)-UCT202-009D1                                | $1\frac{3}{64}$    | $\frac{5}{16}$  | 2                | $3\frac{13}{16}$ | $2\frac{7}{16}$  | 1.3            | 1.8   | 2.4   |
| UC202-010D1    | T204D1                       | S(SM)-UCT202-010D1                                         | C(CM)-UCT202-010D1                                | $1\frac{3}{64}$    | $\frac{5}{16}$  | 2                | $3\frac{13}{16}$ | $2\frac{7}{16}$  | 1.3            | 1.8   | 2.4   |
| UC203D1        | T204D1                       | S(SM)-UCT203D1                                             | C(CM)-UCT203D1                                    | 5                  | 8               | 51               | 97               | 62               | 0.6            | 0.8   | 1.0   |
| UC203-011D1    | T204D1                       | S(SM)-UCT203-011D1                                         | C(CM)-UCT203-011D1                                | $1\frac{3}{64}$    | $\frac{5}{16}$  | 2                | $3\frac{13}{16}$ | $2\frac{7}{16}$  | 1.3            | 1.8   | 2.2   |
| UC204D1        | T204D1                       | S(SM)-UCT204D1                                             | C(CM)-UCT204D1                                    | 5                  | 8               | 51               | 97               | 62               | 0.6            | 0.8   | 1.0   |
| UC204-012D1    | T204D1                       | S(SM)-UCT204-012D1                                         | C(CM)-UCT204-012D1                                | $1\frac{3}{64}$    | $\frac{5}{16}$  | 2                | $3\frac{13}{16}$ | $2\frac{7}{16}$  | 1.3            | 1.8   | 2.2   |
| UC205D1        | T205D1                       | S(SM)-UCT205D1                                             | C(CM)-UCT205D1                                    | 7                  | 11              | 57               | 100.5            | 70               | 0.8            | 0.9   | 1.1   |
| UC205-013D1    | T205D1                       | S(SM)-UCT205-013D1                                         | C(CM)-UCT205-013D1                                | $\frac{9}{32}$     | $\frac{7}{16}$  | $2\frac{1}{4}$   | $3\frac{31}{32}$ | $2\frac{3}{4}$   | 1.8            | 2.0   | 2.4   |
| UC205-014D1    | T205D1                       | S(SM)-UCT205-014D1                                         | C(CM)-UCT205-014D1                                | $\frac{9}{32}$     | $\frac{7}{16}$  | $2\frac{1}{4}$   | $3\frac{31}{32}$ | $2\frac{3}{4}$   | 1.8            | 2.0   | 2.4   |
| UC205-015D1    | T205D1                       | S(SM)-UCT205-015D1                                         | C(CM)-UCT205-015D1                                | $\frac{9}{32}$     | $\frac{7}{16}$  | $2\frac{1}{4}$   | $3\frac{31}{32}$ | $2\frac{3}{4}$   | 1.8            | 2.0   | 2.4   |
| UC205-100D1    | T205D1                       | S(SM)-UCT205-100D1                                         | C(CM)-UCT205-100D1                                | $\frac{9}{32}$     | $\frac{7}{16}$  | $2\frac{1}{4}$   | $3\frac{31}{32}$ | $2\frac{3}{4}$   | 1.8            | 2.0   | 2.4   |
| UC206D1        | T206D1                       | S(SM)-UCT206D1                                             | C(CM)-UCT206D1                                    | 7                  | 11              | 62               | 113.5            | 75               | 1.3            | 1.3   | 1.7   |
| UC206-101D1    | T206D1                       | S(SM)-UCT206-101D1                                         | C(CM)-UCT206-101D1                                | $\frac{9}{32}$     | $\frac{7}{16}$  | $2\frac{7}{16}$  | $4\frac{15}{32}$ | $2\frac{15}{16}$ | 2.9            | 2.9   | 3.8   |
| UC206-102D1    | T206D1                       | S(SM)-UCT206-102D1                                         | C(CM)-UCT206-102D1                                | $\frac{9}{32}$     | $\frac{7}{16}$  | $2\frac{7}{16}$  | $4\frac{15}{32}$ | $2\frac{15}{16}$ | 2.9            | 2.9   | 3.8   |
| UC206-103D1    | T206D1                       | S(SM)-UCT206-103D1                                         | C(CM)-UCT206-103D1                                | $\frac{9}{32}$     | $\frac{7}{16}$  | $2\frac{7}{16}$  | $4\frac{15}{32}$ | $2\frac{15}{16}$ | 2.9            | 2.9   | 3.8   |
| UC206-104D1    | T206D1                       | S(SM)-UCT206-104D1                                         | C(CM)-UCT206-104D1                                | $\frac{9}{32}$     | $\frac{7}{16}$  | $2\frac{7}{16}$  | $4\frac{15}{32}$ | $2\frac{15}{16}$ | 2.9            | 2.9   | 3.8   |
| UC207D1        | T207D1                       | S(SM)-UCT207D1                                             | C(CM)-UCT207D1                                    | 8                  | 10              | 72               | 129              | 80               | 1.6            | 1.7   | 2.1   |
| UC207-104D1    | T207D1                       | S(SM)-UCT207-104D1                                         | C(CM)-UCT207-104D1                                | $\frac{5}{16}$     | $\frac{25}{64}$ | $2\frac{27}{32}$ | $5\frac{3}{32}$  | $3\frac{5}{32}$  | 3.5            | 3.7   | 4.6   |
| UC207-105D1    | T207D1                       | S(SM)-UCT207-105D1                                         | C(CM)-UCT207-105D1                                | $\frac{5}{16}$     | $\frac{25}{64}$ | $2\frac{27}{32}$ | $5\frac{3}{32}$  | $3\frac{5}{32}$  | 3.5            | 3.7   | 4.6   |
| UC207-106D1    | T207D1                       | S(SM)-UCT207-106D1                                         | C(CM)-UCT207-106D1                                | $\frac{5}{16}$     | $\frac{25}{64}$ | $2\frac{27}{32}$ | $5\frac{3}{32}$  | $3\frac{5}{32}$  | 3.5            | 3.7   | 4.6   |
| UC207-107D1    | T207D1                       | S(SM)-UCT207-107D1                                         | C(CM)-UCT207-107D1                                | $\frac{5}{16}$     | $\frac{25}{64}$ | $2\frac{27}{32}$ | $5\frac{3}{32}$  | $3\frac{5}{32}$  | 3.5            | 3.7   | 4.6   |

# Take-up units cast housing

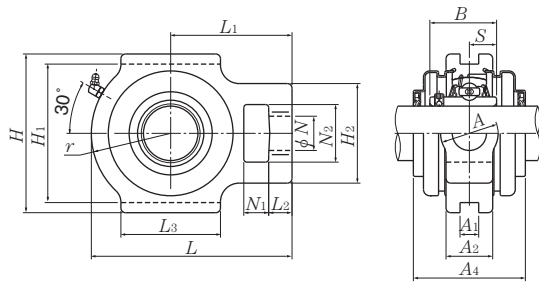
## Set screw type



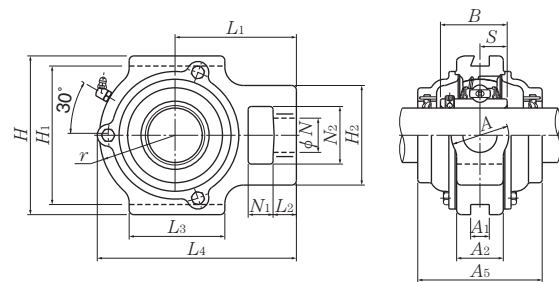
| Shaft<br>dia. | Unit number <sup>1)</sup> | Nominal dimensions |                |                |                |        |                |                |                |         |         |                |         |         |                |        |       |
|---------------|---------------------------|--------------------|----------------|----------------|----------------|--------|----------------|----------------|----------------|---------|---------|----------------|---------|---------|----------------|--------|-------|
|               |                           | mm                 |                |                |                |        |                |                |                | inch    |         |                |         |         |                |        |       |
|               |                           | N <sub>1</sub>     | L <sub>2</sub> | H <sub>2</sub> | N <sub>2</sub> | N      | L <sub>3</sub> | A <sub>1</sub> | H <sub>1</sub> | H       | L       | A <sub>2</sub> | A       | r       | L <sub>1</sub> | B      | S     |
| 40            | UCT208D1                  | 19                 | 18             | 83             | 49             | 29     | 83             | 16             | 102            | 114     | 144     | 33             | 49      | 56      | 88             | 49.2   | 19    |
| 1 1/2         | UCT208-108D1              | 3/4                | 23/32          | 3 9/32         | 1 15/16        | 1 5/32 | 3 9/32         | 0.630          | 4 1/64         | 4 1/2   | 5 21/32 | 1 5/16         | 1 15/16 | 2 7/32  | 3 15/32        | 1.9370 | 0.748 |
| 1 9/16        | UCT208-109D1              |                    |                |                |                |        |                |                |                |         |         |                |         |         |                |        |       |
| 45            | UCT209D1                  | 19                 | 18             | 83             | 49             | 29     | 83             | 16             | 102            | 117     | 145     | 35             | 49      | 57      | 88             | 49.2   | 19    |
| 1 5/8         | UCT209-110D1              | 3/4                | 23/32          | 3 9/32         | 1 15/16        | 1 5/32 | 3 9/32         | 0.630          | 4 1/64         | 4 19/32 | 5 23/32 | 1 3/8          | 1 15/16 | 2 1/4   | 3 15/32        | 1.9370 | 0.748 |
| 1 11/16       | UCT209-111D1              |                    |                |                |                |        |                |                |                |         |         |                |         |         |                |        |       |
| 1 3/4         | UCT209-112D1              |                    |                |                |                |        |                |                |                |         |         |                |         |         |                |        |       |
| 50            | UCT210D1                  | 19                 | 18             | 83             | 49             | 29     | 86             | 16             | 102            | 117     | 151     | 37             | 49      | 59      | 92             | 51.6   | 19    |
| 1 13/16       | UCT210-113D1              | 3/4                | 23/32          | 3 9/32         | 1 15/16        | 1 5/32 | 3 3/8          | 0.630          | 4 1/64         | 4 19/32 | 5 15/16 | 1 15/32        | 1 15/16 | 2 5/16  | 3 5/8          | 2.0315 | 0.748 |
| 1 7/8         | UCT210-114D1              |                    |                |                |                |        |                |                |                |         |         |                |         |         |                |        |       |
| 1 15/16       | UCT210-115D1              |                    |                |                |                |        |                |                |                |         |         |                |         |         |                |        |       |
| 2             | UCT210-200D1              |                    |                |                |                |        |                |                |                |         |         |                |         |         |                |        |       |
| 55            | UCT211D1                  | 25                 | 21             | 102            | 64             | 35     | 95             | 22             | 130            | 146     | 171     | 38             | 64      | 65      | 106            | 55.6   | 22.2  |
| 2             | UCT211-200D1              | 3 1/32             | 13/16          | 4 1/32         | 2 17/32        | 1 3/8  | 3 3/4          | 0.866          | 5 1/8          | 5 3/4   | 6 23/32 | 1 1/2          | 2 17/32 | 2 9/16  | 4 3/16         | 2.1890 | 0.874 |
| 2 1/16        | UCT211-201D1              |                    |                |                |                |        |                |                |                |         |         |                |         |         |                |        |       |
| 2 1/8         | UCT211-202D1              |                    |                |                |                |        |                |                |                |         |         |                |         |         |                |        |       |
| 2 3/16        | UCT211-203D1              |                    |                |                |                |        |                |                |                |         |         |                |         |         |                |        |       |
| 60            | UCT212D1                  | 32                 | 21             | 102            | 64             | 35     | 102            | 22             | 130            | 146     | 194     | 42             | 64      | 75      | 119            | 65.1   | 25.4  |
| 2 1/4         | UCT212-204D1              | 1 1/4              | 13/16          | 4 1/32         | 2 17/32        | 1 3/8  | 4 1/32         | 0.866          | 5 1/8          | 5 3/4   | 7 5/8   | 1 21/32        | 2 17/32 | 2 15/16 | 4 11/16        | 2.5630 | 1.000 |
| 2 5/16        | UCT212-205D1              |                    |                |                |                |        |                |                |                |         |         |                |         |         |                |        |       |
| 2 3/8         | UCT212-206D1              |                    |                |                |                |        |                |                |                |         |         |                |         |         |                |        |       |
| 2 7/16        | UCT212-207D1              |                    |                |                |                |        |                |                |                |         |         |                |         |         |                |        |       |
| 65            | UCT213D1                  | 32                 | 23             | 111            | 70             | 41     | 121            | 26             | 151            | 167     | 224     | 44             | 70      | 87      | 137            | 65.1   | 25.4  |
| 2 1/2         | UCT213-208D1              | 1 1/4              | 29/32          | 4 3/8          | 2 3/4          | 1 5/8  | 4 3/4          | 1.024          | 5 15/16        | 6 9/16  | 8 13/16 | 1 23/32        | 2 3/4   | 3 7/16  | 5 13/32        | 2.5630 | 1.000 |
| 2 9/16        | UCT213-209D1              |                    |                |                |                |        |                |                |                |         |         |                |         |         |                |        |       |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

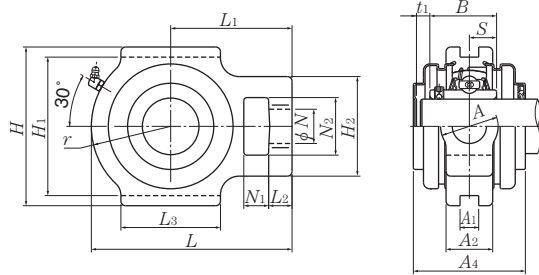
Note: Please refer to page 36 for size of grease fitting.



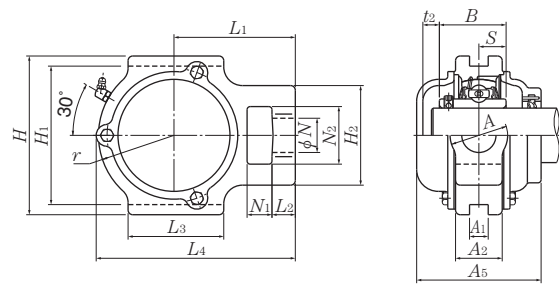
Press steel dust cover type (Open end)  
S-UCT...D1



Cast dust cover type (Open end)  
C-UCT...D1



Press steel dust cover type (Close end)  
SM-UCT...D1

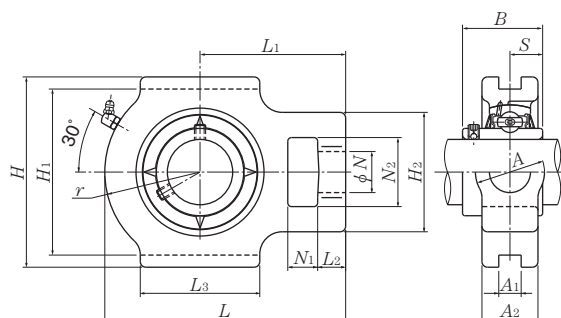


Cast dust cover type (Close end)  
CM-UCT...D1

| Bearing number | Housing number <sup>1)</sup> | Unit number <sup>1)</sup><br>pressed steel dust cover type | Unit number <sup>1)</sup><br>cast dust cover type | Nominal dimensions              |                                 |                                |                                 |                                 | Mass (approx.) |       |       |
|----------------|------------------------------|------------------------------------------------------------|---------------------------------------------------|---------------------------------|---------------------------------|--------------------------------|---------------------------------|---------------------------------|----------------|-------|-------|
|                |                              |                                                            |                                                   | mm                              |                                 | inch                           |                                 |                                 | kg             |       | lb    |
|                |                              |                                                            |                                                   | t <sub>1</sub>                  | t <sub>2</sub>                  | A <sub>4</sub>                 | L <sub>4</sub>                  | A <sub>5</sub>                  | UCT            | S(SM) | C(CM) |
| UC208D1        | T208D1                       | S(SM)-UCT208D1                                             | C(CM)-UCT208D1                                    | 8                               | 9                               | 82                             | 144                             | 90                              | 2.4            | 2.5   | 3.1   |
| UC208-108D1    | T208D1                       | S(SM)-UCT208-108D1                                         | C(CM)-UCT208-108D1                                | 5 <sup>1</sup> / <sub>16</sub>  | 23 <sup>3</sup> / <sub>64</sub> | 3 <sup>7</sup> / <sub>32</sub> | 5 <sup>21</sup> / <sub>32</sub> | 3 <sup>17</sup> / <sub>32</sub> | 5.3            | 5.5   | 6.8   |
| UC208-109D1    | T208D1                       | S(SM)-UCT208-109D1                                         | C(CM)-UCT208-109D1                                |                                 |                                 |                                |                                 |                                 |                |       |       |
| UC209D1        | T209D1                       | S(SM)-UCT209D1                                             | C(CM)-UCT209D1                                    | 8                               | 12                              | 82                             | 145.5                           | 95                              | 2.4            | 2.5   | 3.3   |
| UC209-110D1    | T209D1                       | S(SM)-UCT209-110D1                                         | C(CM)-UCT209-110D1                                | 5 <sup>1</sup> / <sub>16</sub>  | 15 <sup>1</sup> / <sub>32</sub> | 3 <sup>7</sup> / <sub>32</sub> | 5 <sup>23</sup> / <sub>32</sub> | 3 <sup>3</sup> / <sub>4</sub>   | 5.3            | 5.5   | 7.3   |
| UC209-111D1    | T209D1                       | S(SM)-UCT209-111D1                                         | C(CM)-UCT209-111D1                                |                                 |                                 |                                |                                 |                                 |                |       |       |
| UC209-112D1    | T209D1                       | S(SM)-UCT209-112D1                                         | C(CM)-UCT209-112D1                                |                                 |                                 |                                |                                 |                                 |                |       |       |
| UC210D1        | T210D1                       | S(SM)-UCT210D1                                             | C(CM)-UCT210D1                                    | 8                               | 12                              | 87                             | 152                             | 100                             | 2.6            | 2.7   | 3.6   |
| UC210-113D1    | T210D1                       | S(SM)-UCT210-113D1                                         | C(CM)-UCT210-113D1                                | 5 <sup>1</sup> / <sub>16</sub>  | 15 <sup>1</sup> / <sub>32</sub> | 3 <sup>7</sup> / <sub>16</sub> | 5 <sup>31</sup> / <sub>32</sub> | 3 <sup>15</sup> / <sub>16</sub> | 5.7            | 6.0   | 7.9   |
| UC210-114D1    | T210D1                       | S(SM)-UCT210-114D1                                         | C(CM)-UCT210-114D1                                |                                 |                                 |                                |                                 |                                 |                |       |       |
| UC210-115D1    | T210D1                       | S(SM)-UCT210-115D1                                         | C(CM)-UCT210-115D1                                |                                 |                                 |                                |                                 |                                 |                |       |       |
| UC210-200D1    | T210D1                       | S(SM)-UCT210-200D1                                         | C(CM)-UCT210-200D1                                |                                 |                                 |                                |                                 |                                 |                |       |       |
| UC211D1        | T211D1                       | S(SM)-UCT211D1                                             | C(CM)-UCT211D1                                    | 10                              | 11                              | 92                             | 171.5                           | 100                             | 3.9            | 4.1   | 5.0   |
| UC211-200D1    | T211D1                       | S(SM)-UCT211-200D1                                         | C(CM)-UCT211-200D1                                | 25 <sup>1</sup> / <sub>64</sub> | 7 <sup>1</sup> / <sub>16</sub>  | 3 <sup>5</sup> / <sub>8</sub>  | 6 <sup>3</sup> / <sub>4</sub>   | 3 <sup>15</sup> / <sub>16</sub> | 8.6            | 9.0   | 11    |
| UC211-201D1    | T211D1                       | S(SM)-UCT211-201D1                                         | C(CM)-UCT211-201D1                                |                                 |                                 |                                |                                 |                                 |                |       |       |
| UC211-202D1    | T211D1                       | S(SM)-UCT211-202D1                                         | C(CM)-UCT211-202D1                                |                                 |                                 |                                |                                 |                                 |                |       |       |
| UC211-203D1    | T211D1                       | S(SM)-UCT211-203D1                                         | C(CM)-UCT211-203D1                                |                                 |                                 |                                |                                 |                                 |                |       |       |
| UC212D1        | T212D1                       | S(SM)-UCT212D1                                             | C(CM)-UCT212D1                                    | 8                               | 12                              | 102                            | 194                             | 115                             | 4.8            | 5.1   | 6.1   |
| UC212-204D1    | T212D1                       | S(SM)-UCT212-204D1                                         | C(CM)-UCT212-204D1                                | 5 <sup>1</sup> / <sub>16</sub>  | 15 <sup>1</sup> / <sub>32</sub> | 4 <sup>1</sup> / <sub>32</sub> | 7 <sup>5</sup> / <sub>8</sub>   | 4 <sup>17</sup> / <sub>32</sub> | 11             | 11    | 13    |
| UC212-205D1    | T212D1                       | S(SM)-UCT212-205D1                                         | C(CM)-UCT212-205D1                                |                                 |                                 |                                |                                 |                                 |                |       |       |
| UC212-206D1    | T212D1                       | S(SM)-UCT212-206D1                                         | C(CM)-UCT212-206D1                                |                                 |                                 |                                |                                 |                                 |                |       |       |
| UC212-207D1    | T212D1                       | S(SM)-UCT212-207D1                                         | C(CM)-UCT212-207D1                                |                                 |                                 |                                |                                 |                                 |                |       |       |
| UC213D1        | T213D1                       | S(SM)-UCT213D1                                             | C(CM)-UCT213D1                                    | 11                              | 15                              | 107                            | 224                             | 120                             | 7.0            | 7.3   | 8.4   |
| UC213-208D1    | T213D1                       | S(SM)-UCT213-208D1                                         | C(CM)-UCT213-208D1                                | 7 <sup>1</sup> / <sub>16</sub>  | 19 <sup>1</sup> / <sub>32</sub> | 4 <sup>7</sup> / <sub>32</sub> | 8 <sup>13</sup> / <sub>16</sub> | 4 <sup>23</sup> / <sub>32</sub> | 15             | 16    | 19    |
| UC213-209D1    | T213D1                       | S(SM)-UCT213-209D1                                         | C(CM)-UCT213-209D1                                |                                 |                                 |                                |                                 |                                 |                |       |       |

# Take-up units cast housing

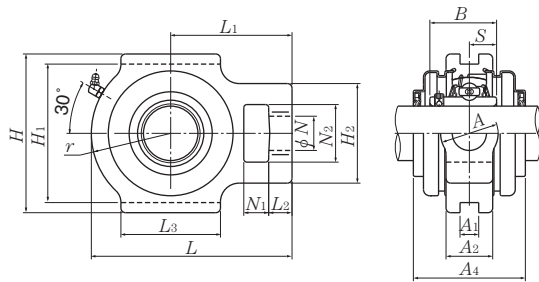
## Set screw type



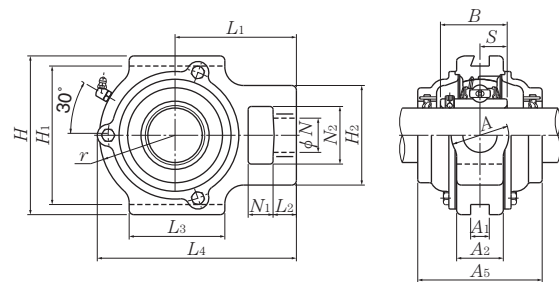
| Shaft<br>dia.                   | Unit number <sup>1)</sup> | Nominal dimensions            |                                 |                               |                               |                               |                                |                |                                 |                                 |                                 |                                 |                               |                                 |                                 |        |       |
|---------------------------------|---------------------------|-------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------|----------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|-------------------------------|---------------------------------|---------------------------------|--------|-------|
|                                 |                           | mm                            |                                 |                               |                               |                               |                                |                |                                 | inch                            |                                 |                                 |                               |                                 |                                 |        |       |
|                                 |                           | N <sub>1</sub>                | L <sub>2</sub>                  | H <sub>2</sub>                | N <sub>2</sub>                | N                             | L <sub>3</sub>                 | A <sub>1</sub> | H <sub>1</sub>                  | H                               | L                               | A <sub>2</sub>                  | A                             | r                               | L <sub>1</sub>                  | B      | S     |
| 70                              | UCT214D1                  | 32                            | 23                              | 111                           | 70                            | 41                            | 121                            | 26             | 151                             | 167                             | 224                             | 46                              | 70                            | 87                              | 137                             | 74.6   | 30.2  |
| 2 <sup>5</sup> / <sub>8</sub>   | UCT214-210D1              |                               |                                 |                               |                               |                               |                                |                |                                 |                                 |                                 |                                 |                               |                                 |                                 |        |       |
| 2 <sup>11</sup> / <sub>16</sub> | UCT214-211D1              | 1 <sup>1</sup> / <sub>4</sub> | 29 <sup>3</sup> / <sub>32</sub> | 4 <sup>3</sup> / <sub>8</sub> | 2 <sup>3</sup> / <sub>4</sub> | 1 <sup>5</sup> / <sub>8</sub> | 4 <sup>3</sup> / <sub>4</sub>  | 1.024          | 5 <sup>15</sup> / <sub>16</sub> | 6 <sup>9</sup> / <sub>16</sub>  | 8 <sup>13</sup> / <sub>16</sub> | 1 <sup>13</sup> / <sub>16</sub> | 2 <sup>3</sup> / <sub>4</sub> | 3 <sup>7</sup> / <sub>16</sub>  | 5 <sup>13</sup> / <sub>32</sub> | 2.9370 | 1.189 |
| 2 <sup>3</sup> / <sub>4</sub>   | UCT214-212D1              |                               |                                 |                               |                               |                               |                                |                |                                 |                                 |                                 |                                 |                               |                                 |                                 |        |       |
| 75                              | UCT215D1                  | 32                            | 23                              | 111                           | 70                            | 41                            | 121                            | 26             | 151                             | 167                             | 232                             | 48                              | 70                            | 92                              | 140                             | 77.8   | 33.3  |
| 2 <sup>13</sup> / <sub>16</sub> | UCT215-213D1              |                               |                                 |                               |                               |                               |                                |                |                                 |                                 |                                 |                                 |                               |                                 |                                 |        |       |
| 2 <sup>7</sup> / <sub>8</sub>   | UCT215-214D1              | 1 <sup>1</sup> / <sub>4</sub> | 29 <sup>3</sup> / <sub>32</sub> | 4 <sup>3</sup> / <sub>8</sub> | 2 <sup>3</sup> / <sub>4</sub> | 1 <sup>5</sup> / <sub>8</sub> | 4 <sup>3</sup> / <sub>4</sub>  | 1.024          | 5 <sup>15</sup> / <sub>16</sub> | 6 <sup>9</sup> / <sub>16</sub>  | 9 <sup>1</sup> / <sub>8</sub>   | 1 <sup>7</sup> / <sub>8</sub>   | 2 <sup>3</sup> / <sub>4</sub> | 3 <sup>5</sup> / <sub>8</sub>   | 5 <sup>1</sup> / <sub>2</sub>   | 3.0630 | 1.311 |
| 2 <sup>15</sup> / <sub>16</sub> | UCT215-215D1              |                               |                                 |                               |                               |                               |                                |                |                                 |                                 |                                 |                                 |                               |                                 |                                 |        |       |
| 3                               | UCT215-300D1              |                               |                                 |                               |                               |                               |                                |                |                                 |                                 |                                 |                                 |                               |                                 |                                 |        |       |
| 80                              | UCT216D1                  | 32                            | 23                              | 111                           | 70                            | 41                            | 121                            | 26             | 165                             | 184                             | 235                             | 51                              | 70                            | 95                              | 140                             | 82.6   | 33.3  |
| 3 <sup>1</sup> / <sub>16</sub>  | UCT216-301D1              |                               |                                 |                               |                               |                               |                                |                |                                 |                                 |                                 |                                 |                               |                                 |                                 |        |       |
| 3 <sup>1</sup> / <sub>8</sub>   | UCT216-302D1              | 1 <sup>1</sup> / <sub>4</sub> | 29 <sup>3</sup> / <sub>32</sub> | 4 <sup>3</sup> / <sub>8</sub> | 2 <sup>3</sup> / <sub>4</sub> | 1 <sup>5</sup> / <sub>8</sub> | 4 <sup>3</sup> / <sub>4</sub>  | 1.024          | 6 <sup>1</sup> / <sub>2</sub>   | 7 <sup>1</sup> / <sub>4</sub>   | 9 <sup>1</sup> / <sub>4</sub>   | 2                               | 2 <sup>3</sup> / <sub>4</sub> | 3 <sup>3</sup> / <sub>4</sub>   | 5 <sup>1</sup> / <sub>2</sub>   | 3.2520 | 1.311 |
| 3 <sup>3</sup> / <sub>16</sub>  | UCT216-303D1              |                               |                                 |                               |                               |                               |                                |                |                                 |                                 |                                 |                                 |                               |                                 |                                 |        |       |
| 85                              | UCT217D1                  | 38                            | 31                              | 124                           | 73                            | 48                            | 157                            | 30             | 173                             | 198                             | 260                             | 54                              | 73                            | 98                              | 162                             | 85.7   | 34.1  |
| 3 <sup>1</sup> / <sub>4</sub>   | UCT217-304D1              |                               |                                 |                               |                               |                               |                                |                |                                 |                                 |                                 |                                 |                               |                                 |                                 |        |       |
| 3 <sup>5</sup> / <sub>16</sub>  | UCT217-305D1              | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>7</sup> / <sub>32</sub>  | 4 <sup>7</sup> / <sub>8</sub> | 2 <sup>7</sup> / <sub>8</sub> | 1 <sup>7</sup> / <sub>8</sub> | 6 <sup>3</sup> / <sub>16</sub> | 1.181          | 6 <sup>13</sup> / <sub>16</sub> | 7 <sup>25</sup> / <sub>32</sub> | 10 <sup>1</sup> / <sub>4</sub>  | 2 <sup>1</sup> / <sub>8</sub>   | 2 <sup>7</sup> / <sub>8</sub> | 3 <sup>27</sup> / <sub>32</sub> | 6 <sup>3</sup> / <sub>8</sub>   | 3.3740 | 1.343 |
| 3 <sup>7</sup> / <sub>16</sub>  | UCT217-307D1              |                               |                                 |                               |                               |                               |                                |                |                                 |                                 |                                 |                                 |                               |                                 |                                 |        |       |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

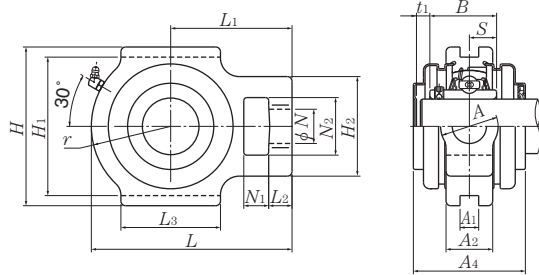
Note: Please refer to page 36 for size of grease fitting.



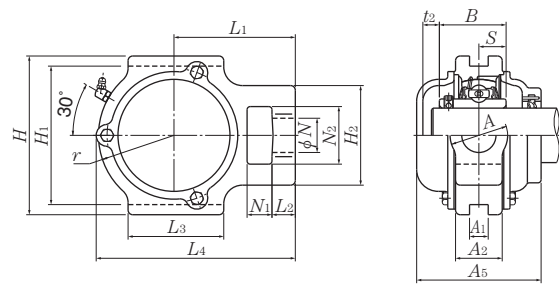
Press steel dust cover type (Open end)  
S-UCT...D1



Cast dust cover type (Open end)  
C-UCT...D1



Press steel dust cover type (Close end)  
SM-UCT...D1



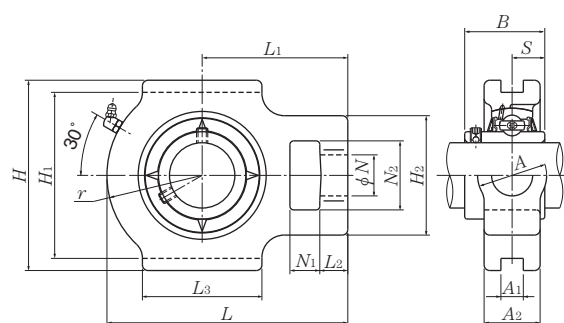
Cast dust cover type (Close end)  
CM-UCT...D1

| Bearing number | Housing number <sup>1)</sup> | Unit number <sup>1)</sup><br>pressed steel dust cover type | Unit number <sup>1)</sup><br>cast dust cover type | Nominal dimensions |                                |                |                                 |                                 | Mass (approx.) |       |       |
|----------------|------------------------------|------------------------------------------------------------|---------------------------------------------------|--------------------|--------------------------------|----------------|---------------------------------|---------------------------------|----------------|-------|-------|
|                |                              |                                                            |                                                   | mm                 |                                | inch           |                                 |                                 | kg             |       | lb    |
|                |                              |                                                            |                                                   | t <sub>1</sub>     | t <sub>2</sub>                 | A <sub>4</sub> | L <sub>4</sub>                  | A <sub>5</sub>                  | UCT            | S(SM) | C(CM) |
| UC214D1        | T214D1                       | —                                                          | C(CM)-UCT214D1                                    | —                  | 17                             | —              | 224                             | 135                             | 7.0            | —     | 9.1   |
| UC214-210D1    | T214D1                       | —                                                          | C(CM)-UCT214-210D1                                | —                  | 17                             | —              | 224                             | 135                             | 7.0            | —     | 9.1   |
| UC214-211D1    | T214D1                       | —                                                          | C(CM)-UCT214-211D1                                | —                  | 2 <sup>1</sup> / <sub>32</sub> | —              | 8 <sup>13</sup> / <sub>16</sub> | 5 <sup>5</sup> / <sub>16</sub>  | 15             | —     | 20    |
| UC214-212D1    | T214D1                       | —                                                          | C(CM)-UCT214-212D1                                | —                  | 2 <sup>1</sup> / <sub>32</sub> | —              | 8 <sup>13</sup> / <sub>16</sub> | 5 <sup>5</sup> / <sub>16</sub>  | 15             | —     | 20    |
| UC215D1        | T215D1                       | —                                                          | C(CM)-UCT215D1                                    | —                  | 17                             | —              | 232                             | 135                             | 7.4            | —     | 9.8   |
| UC215-213D1    | T215D1                       | —                                                          | C(CM)-UCT215-213D1                                | —                  | 17                             | —              | 232                             | 135                             | 7.4            | —     | 9.8   |
| UC215-214D1    | T215D1                       | —                                                          | C(CM)-UCT215-214D1                                | —                  | 2 <sup>1</sup> / <sub>32</sub> | —              | 9 <sup>1</sup> / <sub>8</sub>   | 5 <sup>5</sup> / <sub>16</sub>  | 16             | —     | 22    |
| UC215-215D1    | T215D1                       | —                                                          | C(CM)-UCT215-215D1                                | —                  | 2 <sup>1</sup> / <sub>32</sub> | —              | 9 <sup>1</sup> / <sub>8</sub>   | 5 <sup>5</sup> / <sub>16</sub>  | 16             | —     | 22    |
| UC215-300D1    | T215D1                       | —                                                          | C(CM)-UCT215-300D1                                | —                  | 2 <sup>1</sup> / <sub>32</sub> | —              | 9 <sup>1</sup> / <sub>8</sub>   | 5 <sup>5</sup> / <sub>16</sub>  | 16             | —     | 22    |
| UC216D1        | T216D1                       | —                                                          | C(CM)-UCT216D1                                    | —                  | 17                             | —              | 235                             | 145                             | 8.2            | —     | 11    |
| UC216-301D1    | T216D1                       | —                                                          | C(CM)-UCT216-301D1                                | —                  | 17                             | —              | 235                             | 145                             | 8.2            | —     | 11    |
| UC216-302D1    | T216D1                       | —                                                          | C(CM)-UCT216-302D1                                | —                  | 2 <sup>1</sup> / <sub>32</sub> | —              | 9 <sup>1</sup> / <sub>4</sub>   | 5 <sup>23</sup> / <sub>32</sub> | 18             | —     | 24    |
| UC216-303D1    | T216D1                       | —                                                          | C(CM)-UCT216-303D1                                | —                  | 2 <sup>1</sup> / <sub>32</sub> | —              | 9 <sup>1</sup> / <sub>4</sub>   | 5 <sup>23</sup> / <sub>32</sub> | 18             | —     | 24    |
| UC217D1        | T217D1                       | —                                                          | C(CM)-UCT217D1                                    | —                  | 19                             | —              | 260                             | 155                             | 11             | —     | 14    |
| UC217-304D1    | T217D1                       | —                                                          | C(CM)-UCT217-304D1                                | —                  | 19                             | —              | 260                             | 155                             | 11             | —     | 14    |
| UC217-305D1    | T217D1                       | —                                                          | C(CM)-UCT217-305D1                                | —                  | 3/4                            | —              | 10 <sup>1</sup> / <sub>4</sub>  | 6 <sup>3</sup> / <sub>32</sub>  | 24             | —     | 31    |
| UC217-307D1    | T217D1                       | —                                                          | C(CM)-UCT217-307D1                                | —                  | 3/4                            | —              | 10 <sup>1</sup> / <sub>4</sub>  | 6 <sup>3</sup> / <sub>32</sub>  | 24             | —     | 31    |



# Take-up units cast housing

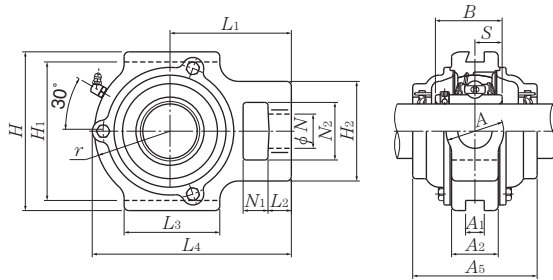
## Set screw type



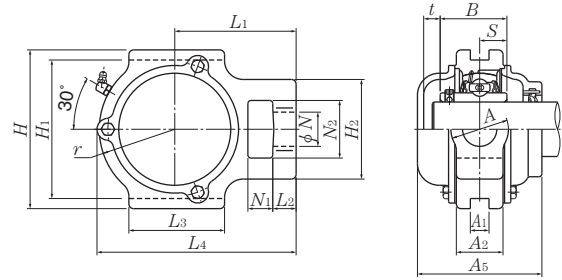
| Shaft<br>dia.   | Unit number <sup>1)</sup> | Nominal dimensions |                 |                  |                  |                  |                  |                |                  |                  |                  |                  |                  |                  |                  |        |       |
|-----------------|---------------------------|--------------------|-----------------|------------------|------------------|------------------|------------------|----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------|-------|
|                 |                           | mm                 |                 |                  |                  |                  |                  |                |                  | inch             |                  |                  |                  |                  |                  |        |       |
|                 |                           | N <sub>1</sub>     | L <sub>2</sub>  | H <sub>2</sub>   | N <sub>2</sub>   | N                | L <sub>3</sub>   | A <sub>1</sub> | H <sub>1</sub>   | H                | L                | A <sub>2</sub>   | A                | r                | L <sub>1</sub>   | B      | S     |
| <b>25</b>       | <b>UCT305D1</b>           | 16                 | 14              | 62               | 36               | 26               | 65               | 12             | 80               | 89               | 122              | 26               | 36               | 46               | 76               | 38     | 15    |
| $\frac{13}{16}$ | <b>UCT305-013D1</b>       |                    |                 |                  |                  |                  |                  |                |                  |                  |                  |                  |                  |                  |                  |        |       |
| $\frac{7}{8}$   | <b>UCT305-014D1</b>       | $\frac{5}{8}$      | $\frac{9}{16}$  | $2\frac{7}{16}$  | $1\frac{13}{32}$ | $1\frac{1}{32}$  | $2\frac{9}{16}$  | 0.472          | $3\frac{5}{32}$  | $3\frac{1}{2}$   | $4\frac{13}{16}$ | $1\frac{1}{32}$  | $1\frac{13}{32}$ | $1\frac{13}{16}$ | 3                | 1.4961 | 0.591 |
| $\frac{15}{16}$ | <b>UCT305-015D1</b>       |                    |                 |                  |                  |                  |                  |                |                  |                  |                  |                  |                  |                  |                  |        |       |
| <b>1</b>        | <b>UCT305-100D1</b>       |                    |                 |                  |                  |                  |                  |                |                  |                  |                  |                  |                  |                  |                  |        |       |
| <b>30</b>       | <b>UCT306D1</b>           | 18                 | 16              | 70               | 41               | 28               | 74               | 16             | 90               | 100              | 137              | 28               | 41               | 52               | 85               | 43     | 17    |
| $\frac{1}{16}$  | <b>UCT306-101D1</b>       |                    |                 |                  |                  |                  |                  |                |                  |                  |                  |                  |                  |                  |                  |        |       |
| $\frac{1}{8}$   | <b>UCT306-102D1</b>       | $2\frac{3}{32}$    | $\frac{5}{8}$   | $2\frac{3}{4}$   | $1\frac{5}{8}$   | $1\frac{3}{32}$  | $2\frac{29}{32}$ | 0.630          | $3\frac{35}{64}$ | $3\frac{15}{16}$ | $5\frac{13}{32}$ | $1\frac{3}{32}$  | $1\frac{5}{8}$   | $2\frac{1}{16}$  | $3\frac{11}{32}$ | 1.6929 | 0.669 |
| $\frac{3}{16}$  | <b>UCT306-103D1</b>       |                    |                 |                  |                  |                  |                  |                |                  |                  |                  |                  |                  |                  |                  |        |       |
| <b>35</b>       | <b>UCT307D1</b>           | 20                 | 17              | 75               | 45               | 30               | 80               | 16             | 100              | 111              | 150              | 32               | 45               | 56               | 94               | 48     | 19    |
| $\frac{1}{4}$   | <b>UCT307-104D1</b>       |                    |                 |                  |                  |                  |                  |                |                  |                  |                  |                  |                  |                  |                  |        |       |
| $\frac{5}{16}$  | <b>UCT307-105D1</b>       | $2\frac{5}{32}$    | $2\frac{1}{32}$ | $2\frac{15}{16}$ | $1\frac{25}{32}$ | $1\frac{3}{16}$  | $3\frac{5}{32}$  | 0.630          | $3\frac{15}{16}$ | $4\frac{3}{8}$   | $5\frac{29}{32}$ | $1\frac{1}{4}$   | $1\frac{25}{32}$ | $2\frac{7}{32}$  | $3\frac{11}{16}$ | 1.8898 | 0.748 |
| $\frac{3}{8}$   | <b>UCT307-106D1</b>       |                    |                 |                  |                  |                  |                  |                |                  |                  |                  |                  |                  |                  |                  |        |       |
| $\frac{7}{16}$  | <b>UCT307-107D1</b>       |                    |                 |                  |                  |                  |                  |                |                  |                  |                  |                  |                  |                  |                  |        |       |
| <b>40</b>       | <b>UCT308D1</b>           | 22                 | 19              | 83               | 50               | 32               | 89               | 18             | 112              | 124              | 162              | 34               | 50               | 62               | 100              | 52     | 19    |
| $\frac{1}{2}$   | <b>UCT308-108D1</b>       | $\frac{7}{8}$      | $\frac{3}{4}$   | $3\frac{9}{32}$  | $1\frac{31}{32}$ | $1\frac{1}{4}$   | $3\frac{1}{2}$   | 0.709          | $4\frac{13}{32}$ | $4\frac{7}{8}$   | $6\frac{3}{8}$   | $1\frac{11}{32}$ | $1\frac{31}{32}$ | $2\frac{7}{16}$  | $3\frac{15}{16}$ | 2.0472 | 0.748 |
| $\frac{9}{16}$  | <b>UCT308-109D1</b>       |                    |                 |                  |                  |                  |                  |                |                  |                  |                  |                  |                  |                  |                  |        |       |
| <b>45</b>       | <b>UCT309D1</b>           | 24                 | 20              | 90               | 55               | 34               | 97               | 18             | 125              | 138              | 178              | 38               | 55               | 68               | 110              | 57     | 22    |
| $\frac{5}{8}$   | <b>UCT309-110D1</b>       |                    |                 |                  |                  |                  |                  |                |                  |                  |                  |                  |                  |                  |                  |        |       |
| $\frac{11}{16}$ | <b>UCT309-111D1</b>       | $1\frac{5}{16}$    | $2\frac{5}{32}$ | $3\frac{17}{32}$ | $2\frac{5}{32}$  | $1\frac{11}{32}$ | $3\frac{13}{16}$ | 0.709          | $4\frac{59}{64}$ | $5\frac{7}{16}$  | 7                | $1\frac{1}{2}$   | $2\frac{5}{32}$  | $2\frac{11}{16}$ | $4\frac{11}{32}$ | 2.2441 | 0.866 |
| $\frac{3}{4}$   | <b>UCT309-112D1</b>       |                    |                 |                  |                  |                  |                  |                |                  |                  |                  |                  |                  |                  |                  |        |       |
| <b>50</b>       | <b>UCT310D1</b>           | 27                 | 22              | 98               | 61               | 37               | 106              | 20             | 140              | 151              | 192              | 40               | 61               | 74               | 118              | 61     | 22    |
| $\frac{13}{16}$ | <b>UCT310-113D1</b>       |                    |                 |                  |                  |                  |                  |                |                  |                  |                  |                  |                  |                  |                  |        |       |
| $\frac{1}{8}$   | <b>UCT310-114D1</b>       | $1\frac{1}{16}$    | $\frac{7}{8}$   | $3\frac{27}{32}$ | $2\frac{13}{32}$ | $1\frac{15}{32}$ | $4\frac{3}{16}$  | 0.787          | $5\frac{33}{64}$ | $5\frac{15}{16}$ | $7\frac{9}{16}$  | $1\frac{9}{16}$  | $2\frac{13}{32}$ | $2\frac{29}{32}$ | $4\frac{21}{32}$ | 2.4016 | 0.866 |
| $\frac{15}{16}$ | <b>UCT310-115D1</b>       |                    |                 |                  |                  |                  |                  |                |                  |                  |                  |                  |                  |                  |                  |        |       |
| <b>55</b>       | <b>UCT311D1</b>           | 29                 | 23              | 105              | 66               | 39               | 115              | 22             | 150              | 163              | 207              | 44               | 66               | 80               | 127              | 66     | 25    |
| <b>2</b>        | <b>UCT311-200D1</b>       |                    |                 |                  |                  |                  |                  |                |                  |                  |                  |                  |                  |                  |                  |        |       |
| $\frac{1}{16}$  | <b>UCT311-201D1</b>       | $1\frac{5}{32}$    | $2\frac{9}{32}$ | $4\frac{1}{8}$   | $2\frac{19}{32}$ | $1\frac{17}{32}$ | $4\frac{17}{32}$ | 0.866          | $5\frac{29}{32}$ | $6\frac{13}{32}$ | $8\frac{5}{32}$  | $1\frac{23}{32}$ | $2\frac{19}{32}$ | $3\frac{5}{32}$  | 5                | 2.5984 | 0.984 |
| $\frac{1}{8}$   | <b>UCT311-202D1</b>       |                    |                 |                  |                  |                  |                  |                |                  |                  |                  |                  |                  |                  |                  |        |       |
| $\frac{3}{16}$  | <b>UCT311-203D1</b>       |                    |                 |                  |                  |                  |                  |                |                  |                  |                  |                  |                  |                  |                  |        |       |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.



Cast dust cover type (Open end)  
C-UCT...D1

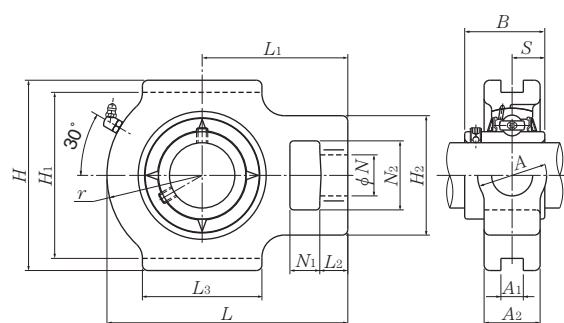


Cast dust cover type (Close end)  
CM-UCT...D1

| Bearing number | Housing number <sup>1)</sup> | Unit number <sup>1)</sup><br>cast dust cover type | Nominal dimensions               |                                 |                                 | Mass (approx.) |       |
|----------------|------------------------------|---------------------------------------------------|----------------------------------|---------------------------------|---------------------------------|----------------|-------|
|                |                              |                                                   | mm                               |                                 | inch                            | kg             | lb    |
|                |                              |                                                   | t                                | L4                              | A5                              | UCT            | C(CM) |
| UC305D1        | T305D1                       | C(CM)-UCT305D1                                    | 12                               | 122                             | 80                              | 1.4            | 1.7   |
| UC305-013D1    | T305D1                       | C(CM)-UCT305-013D1                                |                                  |                                 |                                 |                |       |
| UC305-014D1    | T305D1                       | C(CM)-UCT305-014D1                                | 15 <sup>15</sup> / <sub>32</sub> | 4 <sup>13</sup> / <sub>16</sub> | 3 <sup>5</sup> / <sub>32</sub>  | 3.1            | 3.8   |
| UC305-015D1    | T305D1                       | C(CM)-UCT305-015D1                                |                                  |                                 |                                 |                |       |
| UC305-100D1    | T305D1                       | C(CM)-UCT305-100D1                                |                                  |                                 |                                 |                |       |
| UC306D1        | T306D1                       | C(CM)-UCT306D1                                    | 11                               | 139                             | 85                              | 1.8            | 2.4   |
| UC306-101D1    | T306D1                       | C(CM)-UCT306-101D1                                |                                  |                                 |                                 |                |       |
| UC306-102D1    | T306D1                       | C(CM)-UCT306-102D1                                | 7 <sup>7</sup> / <sub>16</sub>   | 5 <sup>31</sup> / <sub>32</sub> | 3 <sup>11</sup> / <sub>32</sub> | 4.0            | 5.3   |
| UC306-103D1    | T306D1                       | C(CM)-UCT306-103D1                                |                                  |                                 |                                 |                |       |
| UC307D1        | T307D1                       | C(CM)-UCT307D1                                    | 13                               | 152                             | 95                              | 2.3            | 3.2   |
| UC307-104D1    | T307D1                       | C(CM)-UCT307-104D1                                |                                  |                                 |                                 |                |       |
| UC307-105D1    | T307D1                       | C(CM)-UCT307-105D1                                | 33 <sup>33</sup> / <sub>64</sub> | 5 <sup>31</sup> / <sub>32</sub> | 3 <sup>3</sup> / <sub>4</sub>   | 5.1            | 7.1   |
| UC307-106D1    | T307D1                       | C(CM)-UCT307-106D1                                |                                  |                                 |                                 |                |       |
| UC307-107D1    | T307D1                       | C(CM)-UCT307-107D1                                |                                  |                                 |                                 |                |       |
| UC308D1        | T308D1                       | C(CM)-UCT308D1                                    | 13                               | 164                             | 105                             | 3.0            | 4.2   |
| UC308-108D1    | T308D1                       | C(CM)-UCT308-108D1                                | 33 <sup>33</sup> / <sub>64</sub> | 6 <sup>15</sup> / <sub>32</sub> | 4 <sup>1</sup> / <sub>8</sub>   | 6.6            | 9.3   |
| UC308-109D1    | T308D1                       | C(CM)-UCT308-109D1                                |                                  |                                 |                                 |                |       |
| UC309D1        | T309D1                       | C(CM)-UCT309D1                                    | 14                               | 181                             | 110                             | 4.0            | 5.4   |
| UC309-110D1    | T309D1                       | C(CM)-UCT309-110D1                                |                                  |                                 |                                 |                |       |
| UC309-111D1    | T309D1                       | C(CM)-UCT309-111D1                                | 35 <sup>35</sup> / <sub>64</sub> | 7 <sup>1</sup> / <sub>8</sub>   | 4 <sup>11</sup> / <sub>32</sub> | 8.8            | 12    |
| UC309-112D1    | T309D1                       | C(CM)-UCT309-112D1                                |                                  |                                 |                                 |                |       |
| UC310D1        | T310D1                       | C(CM)-UCT310D1                                    | 15                               | 197                             | 120                             | 5.0            | 7.0   |
| UC310-113D1    | T310D1                       | C(CM)-UCT310-113D1                                |                                  |                                 |                                 |                |       |
| UC310-114D1    | T310D1                       | C(CM)-UCT310-114D1                                | 19 <sup>19</sup> / <sub>32</sub> | 7 <sup>3</sup> / <sub>4</sub>   | 4 <sup>23</sup> / <sub>32</sub> | 11             | 15    |
| UC310-115D1    | T310D1                       | C(CM)-UCT310-115D1                                |                                  |                                 |                                 |                |       |
| UC311D1        | T311D1                       | C(CM)-UCT311D1                                    | 15                               | 211                             | 125                             | 6.3            | 8.4   |
| UC311-200D1    | T311D1                       | C(CM)-UCT311-200D1                                |                                  |                                 |                                 |                |       |
| UC311-201D1    | T311D1                       | C(CM)-UCT311-201D1                                | 19 <sup>19</sup> / <sub>32</sub> | 8 <sup>5</sup> / <sub>16</sub>  | 4 <sup>29</sup> / <sub>32</sub> | 14             | 19    |
| UC311-202D1    | T311D1                       | C(CM)-UCT311-202D1                                |                                  |                                 |                                 |                |       |
| UC311-203D1    | T311D1                       | C(CM)-UCT311-203D1                                |                                  |                                 |                                 |                |       |

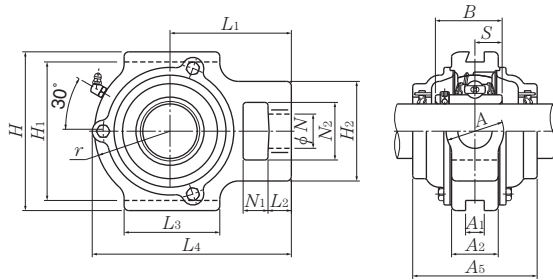
# Take-up units cast housing

## Set screw type

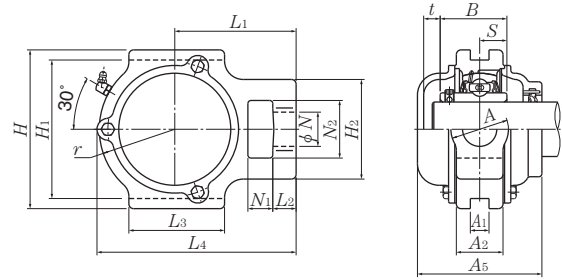


| Shaft<br>dia. | Unit number <sup>1)</sup> | Nominal dimensions |                |                |                |         |                |                |                |         |          |                |         |         |                |        |       |
|---------------|---------------------------|--------------------|----------------|----------------|----------------|---------|----------------|----------------|----------------|---------|----------|----------------|---------|---------|----------------|--------|-------|
|               |                           | mm                 |                |                |                |         |                |                |                | inch    |          |                |         |         |                |        |       |
|               |                           | N <sub>1</sub>     | L <sub>2</sub> | H <sub>2</sub> | N <sub>2</sub> | N       | L <sub>3</sub> | A <sub>1</sub> | H <sub>1</sub> | H       | L        | A <sub>2</sub> | A       | r       | L <sub>1</sub> | B      | S     |
| 60            | UCT312D1                  | 31                 | 25             | 113            | 71             | 41      | 123            | 22             | 160            | 178     | 220      | 46             | 71      | 85      | 135            | 71     | 26    |
| 2 1/4         | UCT312-204D1              |                    |                |                |                |         |                |                |                |         |          |                |         |         |                |        |       |
| 2 5/16        | UCT312-205D1              | 1 7/32             | 3 1/32         | 4 7/16         | 2 25/32        | 1 5/8   | 4 27/32        | 0.866          | 6 19/64        | 7       | 8 21/32  | 1 13/16        | 2 25/32 | 3 11/32 | 5 5/16         | 2.7953 | 1.024 |
| 2 3/8         | UCT312-206D1              |                    |                |                |                |         |                |                |                |         |          |                |         |         |                |        |       |
| 2 7/16        | UCT312-207D1              |                    |                |                |                |         |                |                |                |         |          |                |         |         |                |        |       |
| 65            | UCT313D1                  | 32                 | 27             | 116            | 70             | 43      | 134            | 26             | 170            | 190     | 238      | 50             | 80      | 92      | 146            | 75     | 30    |
| 2 1/2         | UCT313-208D1              | 1 1/4              | 1 1/16         | 4 9/16         | 2 3/4          | 1 11/16 | 5 9/32         | 1.024          | 6 11/16        | 7 15/32 | 9 3/8    | 1 31/32        | 3 5/32  | 3 5/8   | 5 3/4          | 2.9528 | 1.181 |
| 2 9/16        | UCT313-209D1              |                    |                |                |                |         |                |                |                |         |          |                |         |         |                |        |       |
| 70            | UCT314D1                  | 36                 | 27             | 130            | 85             | 46      | 140            | 26             | 180            | 202     | 252      | 52             | 90      | 97      | 155            | 78     | 33    |
| 2 5/8         | UCT314-210D1              |                    |                |                |                |         |                |                |                |         |          |                |         |         |                |        |       |
| 2 11/16       | UCT314-211D1              | 1 13/32            | 1 1/16         | 5 1/8          | 3 11/32        | 1 13/16 | 5 1/2          | 1.024          | 7 3/32         | 7 15/16 | 9 29/32  | 2 1/16         | 3 17/32 | 3 13/16 | 6 3/32         | 3.0709 | 1.299 |
| 2 3/4         | UCT314-212D1              |                    |                |                |                |         |                |                |                |         |          |                |         |         |                |        |       |
| 75            | UCT315D1                  | 36                 | 27             | 132            | 85             | 46      | 150            | 26             | 192            | 216     | 262      | 55             | 90      | 102     | 160            | 82     | 32    |
| 2 13/16       | UCT315-213D1              |                    |                |                |                |         |                |                |                |         |          |                |         |         |                |        |       |
| 2 7/8         | UCT315-214D1              | 1 13/32            | 1 1/16         | 5 3/16         | 3 11/32        | 1 13/16 | 5 29/32        | 1.024          | 7 9/16         | 8 1/2   | 10 5/16  | 2 5/32         | 3 17/32 | 4 1/32  | 6 5/16         | 3.2283 | 1.260 |
| 2 15/16       | UCT315-215D1              |                    |                |                |                |         |                |                |                |         |          |                |         |         |                |        |       |
| 3             | UCT315-300D1              |                    |                |                |                |         |                |                |                |         |          |                |         |         |                |        |       |
| 80            | UCT316D1                  | 42                 | 30             | 150            | 98             | 53      | 160            | 30             | 204            | 230     | 282      | 60             | 102     | 108     | 174            | 86     | 34    |
| 3 1/16        | UCT316-301D1              |                    |                |                |                |         |                |                |                |         |          |                |         |         |                |        |       |
| 3 1/8         | UCT316-302D1              | 1 21/32            | 1 3/16         | 5 29/32        | 3 27/32        | 2 3/32  | 6 5/16         | 1.181          | 8 1/32         | 9 1/16  | 11 3/32  | 2 3/8          | 4 1/32  | 4 1/4   | 6 27/32        | 3.3858 | 1.339 |
| 3 3/16        | UCT316-303D1              |                    |                |                |                |         |                |                |                |         |          |                |         |         |                |        |       |
| 85            | UCT317D1                  | 42                 | 32             | 152            | 98             | 53      | 170            | 32             | 214            | 240     | 298      | 64             | 102     | 115     | 183            | 96     | 40    |
| 3 1/4         | UCT317-304D1              |                    |                |                |                |         |                |                |                |         |          |                |         |         |                |        |       |
| 3 5/16        | UCT317-305D1              | 1 21/32            | 1 1/4          | 5 31/32        | 3 27/32        | 2 3/32  | 6 11/16        | 1.260          | 8 27/64        | 9 7/16  | 11 23/32 | 2 17/32        | 4 1/32  | 4 17/32 | 7 7/32         | 3.7795 | 1.575 |
| 3 7/16        | UCT317-307D1              |                    |                |                |                |         |                |                |                |         |          |                |         |         |                |        |       |
| 90            | UCT318D1                  | 46                 | 32             | 160            | 106            | 57      | 175            | 32             | 228            | 255     | 312      | 66             | 110     | 120     | 192            | 96     | 40    |
| 3 7/16        | UCT318-307D1              |                    |                |                |                |         |                |                |                |         |          |                |         |         |                |        |       |
| 3 1/2         | UCT318-308D1              | 1 13/16            | 1 1/4          | 6 5/16         | 4 3/16         | 2 1/4   | 6 7/8          | 1.260          | 8 31/32        | 10 1/32 | 12 9/32  | 2 19/32        | 4 11/32 | 4 23/32 | 7 9/16         | 3.7795 | 1.575 |
|               |                           |                    |                |                |                |         |                |                |                |         |          |                |         |         |                |        |       |
| 95            | UCT319D1                  | 46                 | 33             | 165            | 106            | 57      | 180            | 35             | 240            | 270     | 322      | 72             | 110     | 125     | 197            | 103    | 41    |
| 3 5/8         | UCT319-310D1              |                    |                |                |                |         |                |                |                |         |          |                |         |         |                |        |       |
| 3 11/16       | UCT319-311D1              | 1 13/16            | 1 5/16         | 6 1/2          | 4 3/16         | 2 1/4   | 7 3/32         | 1.378          | 9 29/64        | 10 5/8  | 12 11/16 | 2 27/32        | 4 11/32 | 4 29/32 | 7 3/4          | 4.0551 | 1.614 |
| 3 3/4         | UCT319-312D1              |                    |                |                |                |         |                |                |                |         |          |                |         |         |                |        |       |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".  
 Note: Please refer to page 36 for size of grease fitting.



Cast dust cover type (Open end)  
C-UCT...D1

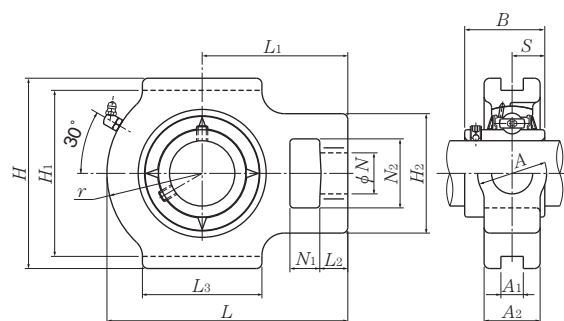


Cast dust cover type (Close end)  
CM-UCT...D1

| Bearing number | Housing number <sup>1)</sup> | Unit number <sup>1)</sup><br>cast dust cover type | Nominal dimensions |                |                | Mass (approx.) |       |
|----------------|------------------------------|---------------------------------------------------|--------------------|----------------|----------------|----------------|-------|
|                |                              |                                                   | mm                 |                | inch           | kg             | lb    |
|                |                              |                                                   | t                  | L <sub>4</sub> | A <sub>5</sub> | UCT            | C(CM) |
| UC312D1        | T312D1                       | C(CM)-UCT312D1                                    | 16                 | 227            | 135            | 7.6            | 10    |
| UC312-204D1    | T312D1                       | C(CM)-UCT312-204D1                                |                    |                |                |                |       |
| UC312-205D1    | T312D1                       | C(CM)-UCT312-205D1                                | 5/8                | 8 15/16        | 5 5/16         | 17             | 22    |
| UC312-206D1    | T312D1                       | C(CM)-UCT312-206D1                                |                    |                |                |                |       |
| UC312-207D1    | T312D1                       | C(CM)-UCT312-207D1                                |                    |                |                |                |       |
| UC313D1        | T313D1                       | C(CM)-UCT313D1                                    | 19                 | 244            | 140            | 9.4            | 12    |
| UC313-208D1    | T313D1                       | C(CM)-UCT313-208D1                                | 3/4                | 9 19/32        | 5 1/2          | 21             | 26    |
| UC313-209D1    | T313D1                       | C(CM)-UCT313-209D1                                |                    |                |                |                |       |
| UC314D1        | T314D1                       | C(CM)-UCT314D1                                    | 19                 | 258            | 140            | 11             | 14    |
| UC314-210D1    | T314D1                       | C(CM)-UCT314-210D1                                |                    |                |                |                |       |
| UC314-211D1    | T314D1                       | C(CM)-UCT314-211D1                                | 3/4                | 10 5/32        | 5 1/2          | 24             | 31    |
| UC314-212D1    | T314D1                       | C(CM)-UCT314-212D1                                |                    |                |                |                |       |
| UC315D1        | T315D1                       | C(CM)-UCT315D1                                    | 19                 | 268            | 150            | 13             | 17    |
| UC315-213D1    | T315D1                       | C(CM)-UCT315-213D1                                |                    |                |                |                |       |
| UC315-214D1    | T315D1                       | C(CM)-UCT315-214D1                                | 3/4                | 10 9/16        | 5 29/32        | 29             | 37    |
| UC315-215D1    | T315D1                       | C(CM)-UCT315-215D1                                |                    |                |                |                |       |
| UC315-300D1    | T315D1                       | C(CM)-UCT315-300D1                                |                    |                |                |                |       |
| UC316D1        | T316D1                       | C(CM)-UCT316D1                                    | 18                 | 287            | 155            | 16             | 20    |
| UC316-301D1    | T316D1                       | C(CM)-UCT316-301D1                                |                    |                |                |                |       |
| UC316-302D1    | T316D1                       | C(CM)-UCT316-302D1                                | 23/32              | 11 5/16        | 6 3/32         | 35             | 44    |
| UC316-303D1    | T316D1                       | C(CM)-UCT316-303D1                                |                    |                |                |                |       |
| UC317D1        | T317D1                       | C(CM)-UCT317D1                                    | 21                 | 303            | 170            | 19             | 25    |
| UC317-304D1    | T317D1                       | C(CM)-UCT317-304D1                                |                    |                |                |                |       |
| UC317-305D1    | T317D1                       | C(CM)-UCT317-305D1                                | 13/16              | 11 15/16       | 6 11/16        | 42             | 55    |
| UC317-307D1    | T317D1                       | C(CM)-UCT317-307D1                                |                    |                |                |                |       |
| UC318D1        | T318D1                       | C(CM)-UCT318D1                                    | 21                 | 317            | 170            | 21             | 27    |
| UC318-307D1    | T318D1                       | C(CM)-UCT318-307D1                                | 13/16              | 12 15/32       | 6 11/16        | 46             | 60    |
| UC318-308D1    | T318D1                       | C(CM)-UCT318-308D1                                |                    |                |                |                |       |
| UC319D1        | T319D1                       | C(CM)-UCT319D1                                    | 20                 | 327            | 180            | 24             | 31    |
| UC319-310D1    | T319D1                       | C(CM)-UCT319-310D1                                |                    |                |                |                |       |
| UC319-311D1    | T319D1                       | C(CM)-UCT319-311D1                                | 25/32              | 12 7/8         | 7 3/32         | 53             | 68    |
| UC319-312D1    | T319D1                       | C(CM)-UCT319-312D1                                |                    |                |                |                |       |

# Take-up units cast housing

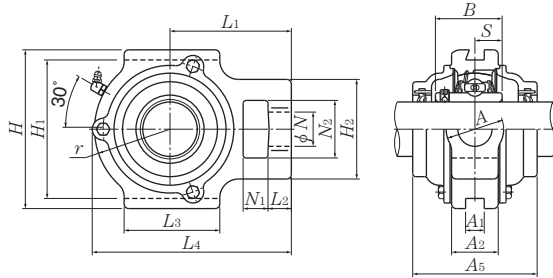
## Set screw type



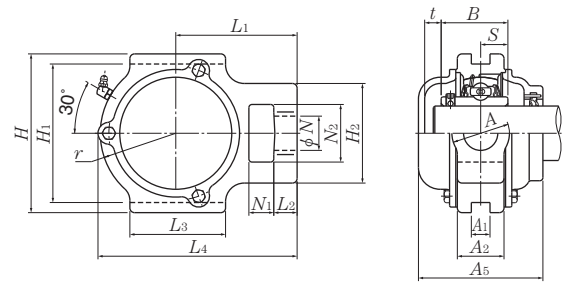
| Shaft<br>dia.                   | Unit number <sup>1)</sup> | Nominal dimensions            |                                 |                               |                                 |                                |                               |                |                                  |                                  |                                  |                                 |                                 |                                |                                |        |       |
|---------------------------------|---------------------------|-------------------------------|---------------------------------|-------------------------------|---------------------------------|--------------------------------|-------------------------------|----------------|----------------------------------|----------------------------------|----------------------------------|---------------------------------|---------------------------------|--------------------------------|--------------------------------|--------|-------|
|                                 |                           | mm                            |                                 |                               |                                 |                                |                               |                |                                  | inch                             |                                  |                                 |                                 |                                |                                |        |       |
|                                 |                           | N <sub>1</sub>                | L <sub>2</sub>                  | H <sub>2</sub>                | N <sub>2</sub>                  | N                              | L <sub>3</sub>                | A <sub>1</sub> | H <sub>1</sub>                   | H                                | L                                | A <sub>2</sub>                  | A                               | r                              | L <sub>1</sub>                 | B      | S     |
| 100                             | UCT320D1                  | 48                            | 34                              | 175                           | 115                             | 59                             | 200                           | 35             | 260                              | 290                              | 345                              | 75                              | 120                             | 135                            | 210                            | 108    | 42    |
| 3 <sup>13</sup> / <sub>16</sub> | UCT320-313D1              |                               |                                 |                               |                                 |                                |                               |                |                                  |                                  |                                  |                                 |                                 |                                |                                |        |       |
| 3 <sup>7</sup> / <sub>8</sub>   | UCT320-314D1              | 1 <sup>7</sup> / <sub>8</sub> | 1 <sup>11</sup> / <sub>32</sub> | 6 <sup>7</sup> / <sub>8</sub> | 4 <sup>17</sup> / <sub>32</sub> | 2 <sup>5</sup> / <sub>16</sub> | 7 <sup>7</sup> / <sub>8</sub> | 1.378          | 10 <sup>15</sup> / <sub>64</sub> | 11 <sup>13</sup> / <sub>32</sub> | 13 <sup>19</sup> / <sub>32</sub> | 2 <sup>15</sup> / <sub>16</sub> | 4 <sup>23</sup> / <sub>32</sub> | 5 <sup>5</sup> / <sub>16</sub> | 8 <sup>9</sup> / <sub>32</sub> | 4.2520 | 1.654 |
| 3 <sup>15</sup> / <sub>16</sub> | UCT320-315D1              |                               |                                 |                               |                                 |                                |                               |                |                                  |                                  |                                  |                                 |                                 |                                |                                |        |       |
| 4                               | UCT320-400D1              |                               |                                 |                               |                                 |                                |                               |                |                                  |                                  |                                  |                                 |                                 |                                |                                |        |       |
| 105                             | UCT321D1                  | 48                            | 34                              | 175                           | 115                             | 59                             | 200                           | 35             | 260                              | 290                              | 347                              | 75                              | 120                             | 135                            | 212                            | 112    | 44    |
| 110                             | UCT322D1                  | 52                            | 40                              | 185                           | 125                             | 65                             | 215                           | 38             | 285                              | 320                              | 385                              | 80                              | 130                             | 150                            | 235                            | 117    | 46    |
| 120                             | UCT324D1                  | 60                            | 44                              | 210                           | 140                             | 70                             | 230                           | 45             | 320                              | 355                              | 432                              | 90                              | 140                             | 165                            | 267                            | 126    | 51    |
| 130                             | UCT326D1                  | 65                            | 47                              | 220                           | 150                             | 75                             | 240                           | 50             | 350                              | 385                              | 465                              | 100                             | 150                             | 180                            | 285                            | 135    | 54    |
| 140                             | UCT328D1                  | 70                            | 52                              | 230                           | 160                             | 80                             | 255                           | 50             | 380                              | 415                              | 515                              | 100                             | 155                             | 200                            | 315                            | 145    | 59    |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.



Cast dust cover type (Open end)  
C-UCT...D1

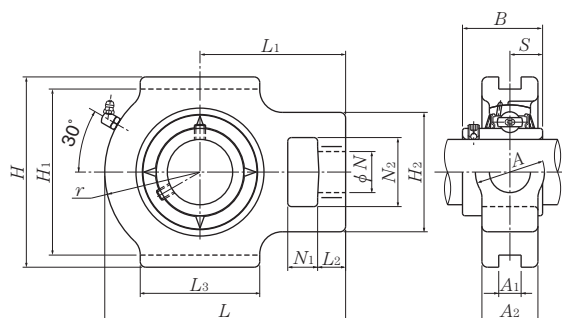


Cast dust cover type (Close end)  
CM-UCT...D1

| Bearing number | Housing number <sup>1)</sup> | Unit number <sup>1)</sup><br>cast dust cover type | Nominal dimensions              |                                  |                                 | Mass (approx.) |       |
|----------------|------------------------------|---------------------------------------------------|---------------------------------|----------------------------------|---------------------------------|----------------|-------|
|                |                              |                                                   | mm                              |                                  | inch                            | kg             | lb    |
|                |                              |                                                   | t                               | L <sub>4</sub>                   | A <sub>5</sub>                  | UCT            | C(CM) |
| UC320D1        | T320D1                       | C(CM)-UCT320D1                                    | 20                              | 350                              | 190                             | 30             | 38    |
| UC320-313D1    | T320D1                       | C(CM)-UCT320-313D1                                |                                 |                                  |                                 |                |       |
| UC320-314D1    | T320D1                       | C(CM)-UCT320-314D1                                | 25 <sup>5</sup> / <sub>32</sub> | 13 <sup>25</sup> / <sub>32</sub> | 7 <sup>15</sup> / <sub>32</sub> | 66             | 84    |
| UC320-315D1    | T320D1                       | C(CM)-UCT320-315D1                                |                                 |                                  |                                 |                |       |
| UC320-400D1    | T320D1                       | C(CM)-UCT320-400D1                                |                                 |                                  |                                 |                |       |
| UC321D1D1      | T321D1                       | C(CM)-UCT321D1                                    | 20                              | 359                              | 195                             | 32             | 43    |
| UC322D1D1      | T322D1                       | C(CM)-UCT322D1                                    | 20                              | 395                              | 200                             | 40             | 55    |
| UC324D1D1      | T324D1                       | C(CM)-UCT324D1                                    | 22                              | 439                              | 215                             | 55             | 71    |
| UC326D1D1      | T326D1                       | C(CM)-UCT326D1                                    | 21                              | 476                              | 225                             | 69             | 92    |
| UC328D1D1      | T328D1                       | C(CM)-UCT328D1                                    | 21                              | 519                              | 235                             | 84             | 111   |

# Take-up units cast housing

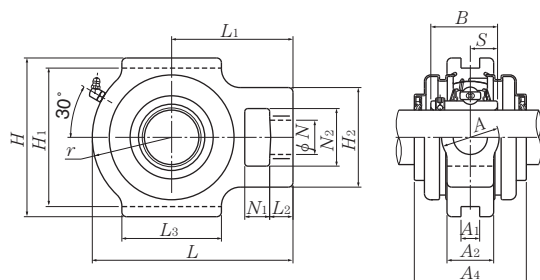
## Set screw type



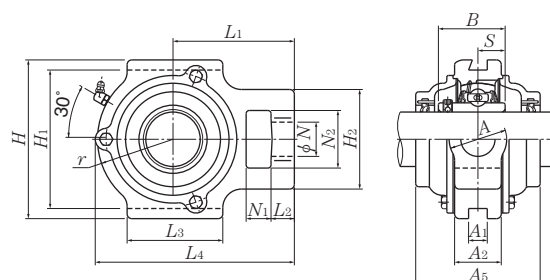
| Shaft<br>dia.   | Unit number <sup>1)</sup> | Nominal dimensions |                 |                  |                  |                 |                  |                |                 |                  |                  |                  |                  |                  |                  |        |       |
|-----------------|---------------------------|--------------------|-----------------|------------------|------------------|-----------------|------------------|----------------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|--------|-------|
|                 |                           | mm                 |                 |                  |                  |                 |                  |                |                 | inch             |                  |                  |                  |                  |                  |        |       |
|                 |                           | N <sub>1</sub>     | L <sub>2</sub>  | H <sub>2</sub>   | N <sub>2</sub>   | N               | L <sub>3</sub>   | A <sub>1</sub> | H <sub>1</sub>  | H                | L                | A <sub>2</sub>   | A                | r                | L <sub>1</sub>   | B      | S     |
| <b>25</b>       | <b>UCTX05D1</b>           | 16                 | 12              | 56               | 37               | 22              | 57               | 12             | 89              | 102              | 113              | 28               | 37               | 43               | 70               | 38.1   | 15.9  |
| $\frac{13}{16}$ | <b>UCTX05-013D1</b>       |                    |                 |                  |                  |                 |                  |                |                 |                  |                  |                  |                  |                  |                  |        |       |
| $\frac{7}{8}$   | <b>UCTX05-014D1</b>       | $\frac{5}{8}$      | $\frac{15}{32}$ | $2\frac{7}{32}$  | $1\frac{15}{32}$ | $\frac{7}{8}$   | $2\frac{1}{4}$   | 0.472          | $3\frac{1}{2}$  | $4\frac{1}{32}$  | $4\frac{7}{16}$  | $1\frac{3}{32}$  | $1\frac{15}{32}$ | $1\frac{11}{16}$ | $2\frac{3}{4}$   | 1.5000 | 0.626 |
| $\frac{15}{16}$ | <b>UCTX05-015D1</b>       |                    |                 |                  |                  |                 |                  |                |                 |                  |                  |                  |                  |                  |                  |        |       |
| <b>1</b>        | <b>UCTX05-100D1</b>       |                    |                 |                  |                  |                 |                  |                |                 |                  |                  |                  |                  |                  |                  |        |       |
| <b>30</b>       | <b>UCTX06D1</b>           | 16                 | 15              | 64               | 37               | 22              | 64               | 12             | 89              | 102              | 129              | 30               | 37               | 51               | 78               | 42.9   | 17.5  |
| $\frac{1}{16}$  | <b>UCTX06-101D1</b>       |                    |                 |                  |                  |                 |                  |                |                 |                  |                  |                  |                  |                  |                  |        |       |
| $\frac{1}{8}$   | <b>UCTX06-102D1</b>       | $\frac{5}{8}$      | $\frac{19}{32}$ | $2\frac{17}{32}$ | $1\frac{15}{32}$ | $\frac{7}{8}$   | $2\frac{17}{32}$ | 0.472          | $3\frac{1}{2}$  | $4\frac{1}{32}$  | $5\frac{3}{32}$  | $1\frac{3}{16}$  | $1\frac{15}{32}$ | 2                | $3\frac{1}{16}$  | 1.6890 | 0.689 |
| $\frac{3}{16}$  | <b>UCTX06-103D1</b>       |                    |                 |                  |                  |                 |                  |                |                 |                  |                  |                  |                  |                  |                  |        |       |
| $\frac{1}{4}$   | <b>UCTX06-104D1</b>       |                    |                 |                  |                  |                 |                  |                |                 |                  |                  |                  |                  |                  |                  |        |       |
| <b>35</b>       | <b>UCTX07D1</b>           | 19                 | 17              | 83               | 49               | 29              | 83               | 16             | 102             | 114              | 144              | 36               | 49               | 56               | 88               | 49.2   | 19    |
| $\frac{5}{16}$  | <b>UCTX07-105D1</b>       |                    |                 |                  |                  |                 |                  |                |                 |                  |                  |                  |                  |                  |                  |        |       |
| $\frac{1}{8}$   | <b>UCTX07-106D1</b>       | $\frac{3}{4}$      | $2\frac{1}{32}$ | $3\frac{9}{32}$  | $1\frac{15}{16}$ | $1\frac{5}{32}$ | $3\frac{9}{32}$  | 0.630          | $4\frac{1}{64}$ | $4\frac{1}{2}$   | $5\frac{21}{32}$ | $1\frac{13}{32}$ | $1\frac{15}{16}$ | $2\frac{7}{32}$  | $3\frac{15}{32}$ | 1.9370 | 0.748 |
| $\frac{1}{16}$  | <b>UCTX07-107D1</b>       |                    |                 |                  |                  |                 |                  |                |                 |                  |                  |                  |                  |                  |                  |        |       |
| <b>40</b>       | <b>UCTX08D1</b>           | 19                 | 17              | 83               | 49               | 29              | 83               | 16             | 102             | 117              | 144              | 36               | 49               | 57               | 87               | 49.2   | 19    |
| $\frac{1}{2}$   | <b>UCTX08-108D1</b>       |                    |                 |                  |                  |                 |                  |                |                 |                  |                  |                  |                  |                  |                  |        |       |
| $\frac{9}{16}$  | <b>UCTX08-109D1</b>       | $\frac{3}{4}$      | $2\frac{1}{32}$ | $3\frac{9}{32}$  | $1\frac{15}{16}$ | $1\frac{5}{32}$ | $3\frac{9}{32}$  | 0.630          | $4\frac{1}{64}$ | $4\frac{19}{32}$ | $5\frac{21}{32}$ | $1\frac{13}{32}$ | $1\frac{15}{16}$ | $2\frac{1}{4}$   | $3\frac{7}{16}$  | 1.9370 | 0.748 |
|                 |                           |                    |                 |                  |                  |                 |                  |                |                 |                  |                  |                  |                  |                  |                  |        |       |
| <b>45</b>       | <b>UCTX09D1</b>           | 19                 | 18              | 83               | 49               | 29              | 86               | 16             | 102             | 117              | 151              | 38               | 49               | 59               | 92               | 51.6   | 19    |
| $\frac{5}{8}$   | <b>UCTX09-110D1</b>       |                    |                 |                  |                  |                 |                  |                |                 |                  |                  |                  |                  |                  |                  |        |       |
| $\frac{11}{16}$ | <b>UCTX09-111D1</b>       | $\frac{3}{4}$      | $2\frac{3}{32}$ | $3\frac{9}{32}$  | $1\frac{15}{16}$ | $1\frac{5}{32}$ | $3\frac{3}{8}$   | 0.630          | $4\frac{1}{64}$ | $4\frac{19}{32}$ | $5\frac{15}{16}$ | $1\frac{1}{2}$   | $1\frac{15}{16}$ | $2\frac{5}{16}$  | $3\frac{5}{8}$   | 2.0315 | 0.748 |
| $\frac{1}{4}$   | <b>UCTX09-112D1</b>       |                    |                 |                  |                  |                 |                  |                |                 |                  |                  |                  |                  |                  |                  |        |       |
| $\frac{13}{16}$ | <b>UCTX09-113D1</b>       |                    |                 |                  |                  |                 |                  |                |                 |                  |                  |                  |                  |                  |                  |        |       |
| <b>50</b>       | <b>UCTX10D1</b>           | 25                 | 21              | 102              | 64               | 35              | 95               | 22             | 130             | 146              | 171              | 42               | 64               | 65               | 106              | 55.6   | 22.2  |
| $\frac{1}{8}$   | <b>UCTX10-114D1</b>       |                    |                 |                  |                  |                 |                  |                |                 |                  |                  |                  |                  |                  |                  |        |       |
| $\frac{15}{16}$ | <b>UCTX10-115D1</b>       | $3\frac{1}{32}$    | $\frac{13}{16}$ | $4\frac{1}{32}$  | $2\frac{17}{32}$ | $1\frac{3}{8}$  | $3\frac{3}{4}$   | 0.866          | $5\frac{1}{8}$  | $5\frac{3}{4}$   | $6\frac{23}{32}$ | $1\frac{21}{32}$ | $2\frac{17}{32}$ | $2\frac{9}{16}$  | $4\frac{3}{16}$  | 2.1890 | 0.874 |
| <b>2</b>        | <b>UCTX10-200D1</b>       |                    |                 |                  |                  |                 |                  |                |                 |                  |                  |                  |                  |                  |                  |        |       |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

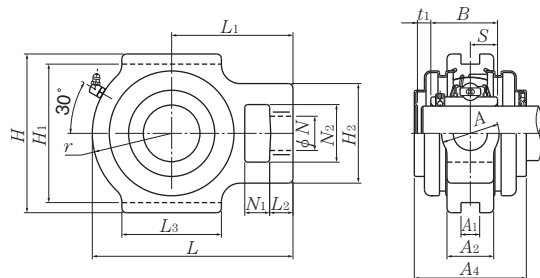
Note: Please refer to page 36 for size of grease fitting.



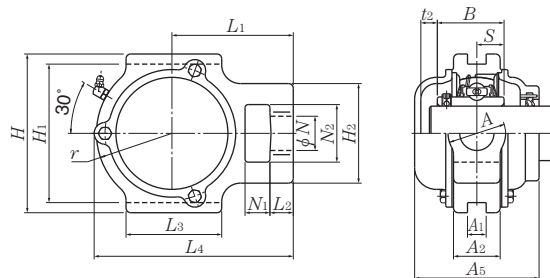
Press steel dust cover type (Open end)  
S-UCT...D1



Cast dust cover type (Open end)  
C-UCT...D1



Press steel dust cover type (Close end)  
SM-UCT...D1



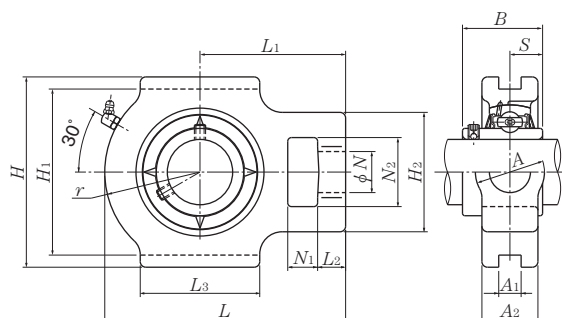
Cast dust cover type (Close end)  
CM-UCT...D1

| Bearing number | Housing number <sup>1)</sup> | Unit number <sup>1)</sup><br>pressed steel dust cover type | Unit number <sup>1)</sup><br>cast dust cover type | Nominal dimensions              |                                 |                                  |                                  |                                  | Mass (approx.) |       |       |
|----------------|------------------------------|------------------------------------------------------------|---------------------------------------------------|---------------------------------|---------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------|-------|-------|
|                |                              |                                                            |                                                   | mm                              |                                 | inch                             |                                  |                                  | kg             |       | lb    |
|                |                              |                                                            |                                                   | t <sub>1</sub>                  | t <sub>2</sub>                  | A <sub>4</sub>                   | L <sub>4</sub>                   | A <sub>5</sub>                   | UCT            | S(SM) | C(CM) |
| UCX05D1        | TX05D1                       | S(SM)-UCTX05D1                                             | C(CM)-UCTX05D1                                    | 7                               | 11                              | 62                               | 113.5                            | 75                               | 1.4            | 1.5   | 1.8   |
| UCX05-013D1    | TX05D1                       | S(SM)-UCTX05-013D1                                         | C(CM)-UCTX05-013D1                                |                                 |                                 |                                  |                                  |                                  |                |       |       |
| UCX05-014D1    | TX05D1                       | S(SM)-UCTX05-014D1                                         | C(CM)-UCTX05-014D1                                | 9 <sup>3</sup> / <sub>32</sub>  | 7 <sup>1</sup> / <sub>16</sub>  | 27 <sup>1</sup> / <sub>16</sub>  | 415 <sup>3</sup> / <sub>32</sub> | 215 <sup>1</sup> / <sub>16</sub> | 3.1            | 3.3   | 4.0   |
| UCX05-015D1    | TX05D1                       | S(SM)-UCTX05-015D1                                         | C(CM)-UCTX05-015D1                                |                                 |                                 |                                  |                                  |                                  |                |       |       |
| UCX05-100D1    | TX05D1                       | S(SM)-UCTX05-100D1                                         | C(CM)-UCTX05-100D1                                |                                 |                                 |                                  |                                  |                                  |                |       |       |
| UCX06D1        | TX06D1                       | S(SM)-UCTX06D1                                             | C(CM)-UCTX06D1                                    | 8                               | 10                              | 72                               | 129                              | 80                               | 1.8            | 2.0   | 2.3   |
| UCX06-101D1    | TX06D1                       | S(SM)-UCTX06-101D1                                         | C(CM)-UCTX06-101D1                                |                                 |                                 |                                  |                                  |                                  |                |       |       |
| UCX06-102D1    | TX06D1                       | S(SM)-UCTX06-102D1                                         | C(CM)-UCTX06-102D1                                | 5 <sup>1</sup> / <sub>16</sub>  | 25 <sup>5</sup> / <sub>64</sub> | 227 <sup>1</sup> / <sub>32</sub> | 53 <sup>3</sup> / <sub>32</sub>  | 35 <sup>3</sup> / <sub>32</sub>  | 4.0            | 4.4   | 5.1   |
| UCX06-103D1    | TX06D1                       | S(SM)-UCTX06-103D1                                         | C(CM)-UCTX06-103D1                                |                                 |                                 |                                  |                                  |                                  |                |       |       |
| UCX06-104D1    | TX06D1                       | S(SM)-UCTX06-104D1                                         | C(CM)-UCTX06-104D1                                |                                 |                                 |                                  |                                  |                                  |                |       |       |
| UCX07D1        | TX07D1                       | S(SM)-UCTX07D1                                             | C(CM)-UCTX07D1                                    | 8                               | 9                               | 82                               | 144                              | 90                               | 2.6            | 2.8   | 3.5   |
| UCX07-105D1    | TX07D1                       | S(SM)-UCTX07-105D1                                         | C(CM)-UCTX07-105D1                                |                                 |                                 |                                  |                                  |                                  |                |       |       |
| UCX07-106D1    | TX07D1                       | S(SM)-UCTX07-106D1                                         | C(CM)-UCTX07-106D1                                | 5 <sup>1</sup> / <sub>16</sub>  | 23 <sup>3</sup> / <sub>64</sub> | 37 <sup>1</sup> / <sub>32</sub>  | 521 <sup>1</sup> / <sub>32</sub> | 317 <sup>1</sup> / <sub>32</sub> | 5.7            | 6.2   | 7.7   |
| UCX07-107D1    | TX07D1                       | S(SM)-UCTX07-107D1                                         | C(CM)-UCTX07-107D1                                |                                 |                                 |                                  |                                  |                                  |                |       |       |
| UCX08D1        | TX08D1                       | S(SM)-UCTX08D1                                             | C(CM)-UCTX08D1                                    | 8                               | 12                              | 82                               | 144.5                            | 95                               | 2.6            | 2.8   | 3.5   |
| UCX08-108D1    | TX08D1                       | S(SM)-UCTX08-108D1                                         | C(CM)-UCTX08-108D1                                | 5 <sup>1</sup> / <sub>16</sub>  | 15 <sup>1</sup> / <sub>32</sub> | 37 <sup>1</sup> / <sub>32</sub>  | 511 <sup>1</sup> / <sub>16</sub> | 33 <sup>3</sup> / <sub>4</sub>   | 5.7            | 6.2   | 7.7   |
| UCX08-109D1    | TX08D1                       | S(SM)-UCTX08-109D1                                         | C(CM)-UCTX08-109D1                                |                                 |                                 |                                  |                                  |                                  |                |       |       |
| UCX09D1        | TX09D1                       | S(SM)-UCTX09D1                                             | C(CM)-UCTX09D1                                    | 8                               | 12                              | 87                               | 152                              | 100                              | 2.7            | 3.0   | 3.7   |
| UCX09-110D1    | TX09D1                       | S(SM)-UCTX09-110D1                                         | C(CM)-UCTX09-110D1                                |                                 |                                 |                                  |                                  |                                  |                |       |       |
| UCX09-111D1    | TX09D1                       | S(SM)-UCTX09-111D1                                         | C(CM)-UCTX09-111D1                                | 5 <sup>1</sup> / <sub>16</sub>  | 15 <sup>1</sup> / <sub>32</sub> | 37 <sup>1</sup> / <sub>16</sub>  | 531 <sup>1</sup> / <sub>32</sub> | 315 <sup>1</sup> / <sub>16</sub> | 6.0            | 6.6   | 8.2   |
| UCX09-112D1    | TX09D1                       | S(SM)-UCTX09-112D1                                         | C(CM)-UCTX09-112D1                                |                                 |                                 |                                  |                                  |                                  |                |       |       |
| UCX09-113D1    | TX09D1                       | S(SM)-UCTX09-113D1                                         | C(CM)-UCTX09-113D1                                |                                 |                                 |                                  |                                  |                                  |                |       |       |
| UCX10D1        | TX10D1                       | S(SM)-UCTX10D1                                             | C(CM)-UCTX10D1                                    | 10                              | 11                              | 92                               | 171.5                            | 100                              | 4.2            | 4.6   | 5.4   |
| UCX10-114D1    | TX10D1                       | S(SM)-UCTX10-114D1                                         | C(CM)-UCTX10-114D1                                |                                 |                                 |                                  |                                  |                                  |                |       |       |
| UCX10-115D1    | TX10D1                       | S(SM)-UCTX10-115D1                                         | C(CM)-UCTX10-115D1                                | 25 <sup>5</sup> / <sub>64</sub> | 7 <sup>1</sup> / <sub>16</sub>  | 35 <sup>5</sup> / <sub>8</sub>   | 63 <sup>3</sup> / <sub>4</sub>   | 315 <sup>1</sup> / <sub>16</sub> | 9.3            | 10    | 12    |
| UCX10-200D1    | TX10D1                       | S(SM)-UCTX10-200D1                                         | C(CM)-UCTX10-200D1                                |                                 |                                 |                                  |                                  |                                  |                |       |       |



# Take-up units cast housing

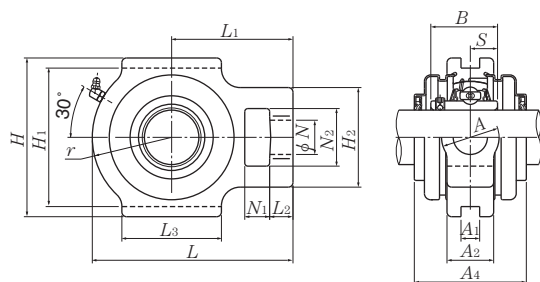
## Set screw type



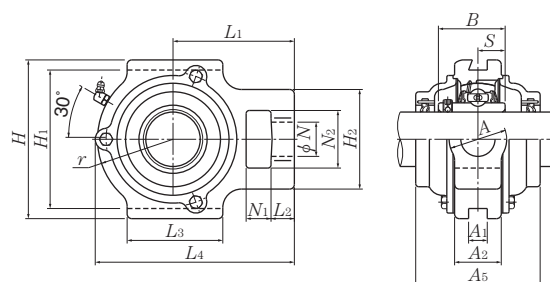
| Shaft<br>dia.    | Unit number <sup>1)</sup> | Nominal dimensions |                 |                 |                  |                |                 |                |                  |                  |                  |                  |                  |                  |                  |        |       |
|------------------|---------------------------|--------------------|-----------------|-----------------|------------------|----------------|-----------------|----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------|-------|
|                  |                           | mm                 |                 |                 |                  |                |                 |                |                  | inch             |                  |                  |                  |                  |                  |        |       |
|                  |                           | N <sub>1</sub>     | L <sub>2</sub>  | H <sub>2</sub>  | N <sub>2</sub>   | N              | L <sub>3</sub>  | A <sub>1</sub> | H <sub>1</sub>   | H                | L                | A <sub>2</sub>   | A                | r                | L <sub>1</sub>   | B      | S     |
| <b>55</b>        | <b>UCTX11D1</b>           | 32                 | 21              | 102             | 64               | 35             | 102             | 22             | 130              | 146              | 194              | 44               | 64               | 75               | 119              | 65.1   | 25.4  |
| $2\frac{1}{16}$  | <b>UCTX11-201D1</b>       |                    |                 |                 |                  |                |                 |                |                  |                  |                  |                  |                  |                  |                  |        |       |
| $2\frac{1}{8}$   | <b>UCTX11-202D1</b>       |                    |                 |                 |                  |                |                 |                |                  |                  |                  |                  |                  |                  |                  |        |       |
| $2\frac{3}{16}$  | <b>UCTX11-203D1</b>       | $1\frac{1}{4}$     | $1\frac{3}{16}$ | $4\frac{1}{32}$ | $2\frac{17}{32}$ | $1\frac{3}{8}$ | $4\frac{1}{32}$ | 0.866          | $5\frac{1}{8}$   | $5\frac{3}{4}$   | $7\frac{5}{8}$   | $1\frac{23}{32}$ | $2\frac{17}{32}$ | $2\frac{15}{16}$ | $4\frac{11}{16}$ | 2.5630 | 1.000 |
| $2\frac{1}{4}$   | <b>UCTX11-204D1</b>       |                    |                 |                 |                  |                |                 |                |                  |                  |                  |                  |                  |                  |                  |        |       |
| $2\frac{5}{16}$  | <b>UCTX11-205D1</b>       |                    |                 |                 |                  |                |                 |                |                  |                  |                  |                  |                  |                  |                  |        |       |
| <b>60</b>        | <b>UCTX12D1</b>           | 32                 | 23              | 111             | 70               | 41             | 121             | 26             | 151              | 167              | 224              | 48               | 70               | 87               | 137              | 65.1   | 25.4  |
| $2\frac{3}{8}$   | <b>UCTX12-206D1</b>       | $1\frac{1}{4}$     | $2\frac{9}{32}$ | $4\frac{3}{8}$  | $2\frac{3}{4}$   | $1\frac{5}{8}$ | $4\frac{3}{4}$  | 1.024          | $5\frac{15}{16}$ | $6\frac{9}{16}$  | $8\frac{13}{16}$ | $1\frac{7}{8}$   | $2\frac{3}{4}$   | $3\frac{7}{16}$  | $5\frac{13}{32}$ | 2.5630 | 1.000 |
| $2\frac{7}{16}$  | <b>UCTX12-207D1</b>       |                    |                 |                 |                  |                |                 |                |                  |                  |                  |                  |                  |                  |                  |        |       |
| <b>65</b>        | <b>UCTX13D1</b>           | 32                 | 23              | 111             | 70               | 41             | 121             | 26             | 151              | 167              | 224              | 48               | 70               | 87               | 137              | 74.6   | 30.2  |
| $2\frac{1}{2}$   | <b>UCTX13-208D1</b>       | $1\frac{1}{4}$     | $2\frac{9}{32}$ | $4\frac{3}{8}$  | $2\frac{3}{4}$   | $1\frac{5}{8}$ | $4\frac{3}{4}$  | 1.024          | $5\frac{15}{16}$ | $6\frac{9}{16}$  | $8\frac{13}{16}$ | $1\frac{7}{8}$   | $2\frac{3}{4}$   | $3\frac{7}{16}$  | $5\frac{13}{32}$ | 2.9370 | 1.189 |
| $2\frac{9}{16}$  | <b>UCTX13-209D1</b>       |                    |                 |                 |                  |                |                 |                |                  |                  |                  |                  |                  |                  |                  |        |       |
| <b>70</b>        | <b>UCTX14D1</b>           | 32                 | 23              | 111             | 70               | 41             | 121             | 26             | 151              | 167              | 232              | 48               | 70               | 92               | 140              | 77.8   | 33.3  |
| $2\frac{5}{8}$   | <b>UCTX14-210D1</b>       |                    |                 |                 |                  |                |                 |                |                  |                  |                  |                  |                  |                  |                  |        |       |
| $2\frac{11}{16}$ | <b>UCTX14-211D1</b>       | $1\frac{1}{4}$     | $2\frac{9}{32}$ | $4\frac{3}{8}$  | $2\frac{3}{4}$   | $1\frac{5}{8}$ | $4\frac{3}{4}$  | 1.024          | $5\frac{15}{16}$ | $6\frac{9}{16}$  | $9\frac{1}{8}$   | $1\frac{7}{8}$   | $2\frac{3}{4}$   | $3\frac{5}{8}$   | $5\frac{1}{2}$   | 3.0630 | 1.311 |
| $2\frac{3}{4}$   | <b>UCTX14-212D1</b>       |                    |                 |                 |                  |                |                 |                |                  |                  |                  |                  |                  |                  |                  |        |       |
| <b>75</b>        | <b>UCTX15D1</b>           | 32                 | 23              | 111             | 70               | 41             | 121             | 28             | 165              | 184              | 235              | 48               | 70               | 95               | 140              | 82.6   | 33.3  |
| $2\frac{13}{16}$ | <b>UCTX15-213D1</b>       |                    |                 |                 |                  |                |                 |                |                  |                  |                  |                  |                  |                  |                  |        |       |
| $2\frac{7}{8}$   | <b>UCTX15-214D1</b>       | $1\frac{1}{4}$     | $2\frac{9}{32}$ | $4\frac{3}{8}$  | $2\frac{3}{4}$   | $1\frac{5}{8}$ | $4\frac{3}{4}$  | 1.102          | $6\frac{1}{2}$   | $7\frac{1}{4}$   | $9\frac{1}{4}$   | $1\frac{7}{8}$   | $2\frac{3}{4}$   | $3\frac{3}{4}$   | $5\frac{1}{2}$   | 3.2520 | 1.311 |
| $2\frac{15}{16}$ | <b>UCTX15-215D1</b>       |                    |                 |                 |                  |                |                 |                |                  |                  |                  |                  |                  |                  |                  |        |       |
| <b>3</b>         | <b>UCTX15-300D1</b>       |                    |                 |                 |                  |                |                 |                |                  |                  |                  |                  |                  |                  |                  |        |       |
| <b>80</b>        | <b>UCTX16D1</b>           | 38                 | 30              | 124             | 73               | 48             | 157             | 28             | 173              | 198              | 260              | 54               | 73               | 98               | 162              | 85.7   | 34.1  |
| $3\frac{1}{16}$  | <b>UCTX16-301D1</b>       |                    |                 |                 |                  |                |                 |                |                  |                  |                  |                  |                  |                  |                  |        |       |
| $3\frac{1}{8}$   | <b>UCTX16-302D1</b>       | $1\frac{1}{2}$     | $1\frac{3}{16}$ | $4\frac{7}{8}$  | $2\frac{7}{8}$   | $1\frac{7}{8}$ | $6\frac{3}{16}$ | 1.102          | $6\frac{13}{16}$ | $7\frac{25}{32}$ | $10\frac{1}{4}$  | $2\frac{1}{8}$   | $2\frac{7}{8}$   | $3\frac{27}{32}$ | $6\frac{3}{8}$   | 3.3740 | 1.343 |
| $3\frac{3}{16}$  | <b>UCTX16-303D1</b>       |                    |                 |                 |                  |                |                 |                |                  |                  |                  |                  |                  |                  |                  |        |       |
| $3\frac{1}{4}$   | <b>UCTX16-304D1</b>       |                    |                 |                 |                  |                |                 |                |                  |                  |                  |                  |                  |                  |                  |        |       |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

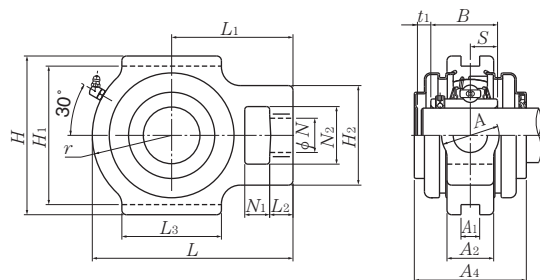
Note: Please refer to page 36 for size of grease fitting.



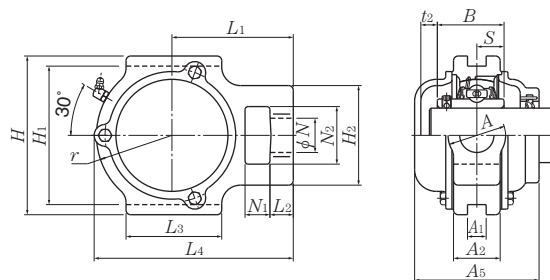
Press steel dust cover type (Open end)  
S-UCT...D1



Cast dust cover type (Open end)  
C-UCT...D1



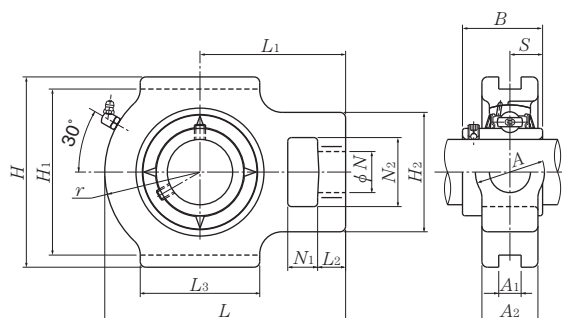
Press steel dust cover type (Close end)  
SM-UCT...D1



Cast dust cover type (Close end)  
CM-UCT...D1

| Bearing number | Housing number <sup>1)</sup> | Unit number <sup>1)</sup><br>pressed steel dust cover type | Unit number <sup>1)</sup><br>cast dust cover type | Nominal dimensions             |                                 |                                |                                 |                                 | Mass (approx.) |       |       |
|----------------|------------------------------|------------------------------------------------------------|---------------------------------------------------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|---------------------------------|----------------|-------|-------|
|                |                              |                                                            |                                                   | mm                             |                                 | inch                           |                                 |                                 | kg             |       | lb    |
|                |                              |                                                            |                                                   | t <sub>1</sub>                 | t <sub>2</sub>                  | A <sub>4</sub>                 | L <sub>4</sub>                  | A <sub>5</sub>                  | UCT            | S(SM) | C(CM) |
| UCX11D1        | TX11D1                       | S(SM)-UCTX11D1                                             | C(CM)-UCTX11D1                                    | 8                              | 12                              | 102                            | 194                             | 115                             | 5.2            | 5.6   | 6.7   |
| UCX11-201D1    | TX11D1                       | S(SM)-UCTX11-201D1                                         | C(CM)-UCTX11-201D1                                |                                |                                 |                                |                                 |                                 |                |       |       |
| UCX11-202D1    | TX11D1                       | S(SM)-UCTX11-202D1                                         | C(CM)-UCTX11-202D1                                |                                |                                 |                                |                                 |                                 |                |       |       |
| UCX11-203D1    | TX11D1                       | S(SM)-UCTX11-203D1                                         | C(CM)-UCTX11-203D1                                | 5 <sup>5</sup> / <sub>16</sub> | 15 <sup>5</sup> / <sub>32</sub> | 4 <sup>1</sup> / <sub>32</sub> | 7 <sup>5</sup> / <sub>8</sub>   | 4 <sup>17</sup> / <sub>32</sub> | 11             | 12    | 15    |
| UC212-204D1    | TX11D1                       | S(SM)-UCTX11-204D1                                         | C(CM)-UCTX11-204D1                                |                                |                                 |                                |                                 |                                 |                |       |       |
| UC212-205D1    | TX11D1                       | S(SM)-UCTX11-205D1                                         | C(CM)-UCTX11-205D1                                |                                |                                 |                                |                                 |                                 |                |       |       |
| UCX12D1        | TX12D1                       | S(SM)-UCTX12D1                                             | C(CM)-UCTX12D1                                    | 11                             | 15                              | 107                            | 224                             | 120                             | 7.2            | 7.7   | 9.0   |
| UCX12-206D1    | TX12D1                       | S(SM)-UCTX12-206D1                                         | C(CM)-UCTX12-206D1                                | 7 <sup>1</sup> / <sub>16</sub> | 19 <sup>1</sup> / <sub>32</sub> | 4 <sup>7</sup> / <sub>32</sub> | 8 <sup>13</sup> / <sub>16</sub> | 4 <sup>23</sup> / <sub>32</sub> | 16             | 17    | 20    |
| UCX12-207D1    | TX12D1                       | S(SM)-UCTX12-207D1                                         | C(CM)-UCTX12-207D1                                |                                |                                 |                                |                                 |                                 |                |       |       |
| UCX13D1        | TX13D1                       | —                                                          | C(CM)-UCTX13D1                                    | —                              | 17                              | —                              | 224                             | 135                             | 7.5            | —     | 9.8   |
| UCX13-208D1    | TX13D1                       | —                                                          | C(CM)-UCTX13-208D1                                | —                              | 2 <sup>1</sup> / <sub>32</sub>  | —                              | 8 <sup>13</sup> / <sub>16</sub> | 5 <sup>5</sup> / <sub>16</sub>  | 17             | —     | 22    |
| UCX13-209D1    | TX13D1                       | —                                                          | C(CM)-UCTX13-209D1                                |                                |                                 |                                |                                 |                                 |                |       |       |
| UCX14D1        | TX14D1                       | —                                                          | C(CM)-UCTX14D1                                    | —                              | 17                              | —                              | 232                             | 135                             | 7.7            | —     | 10    |
| UCX14-210D1    | TX14D1                       | —                                                          | C(CM)-UCTX14-210D1                                | —                              | 2 <sup>1</sup> / <sub>32</sub>  | —                              | 9 <sup>1</sup> / <sub>8</sub>   | 5 <sup>5</sup> / <sub>16</sub>  | 17             | —     | 22    |
| UCX14-211D1    | TX14D1                       | —                                                          | C(CM)-UCTX14-211D1                                |                                |                                 |                                |                                 |                                 |                |       |       |
| UCX14-212D1    | TX14D1                       | —                                                          | C(CM)-UCTX14-212D1                                |                                |                                 |                                |                                 |                                 |                |       |       |
| UCX15D1        | TX15D1                       | —                                                          | C(CM)-UCTX15D1                                    | —                              | 17                              | —                              | 235                             | 145                             | 8.3            | —     | 11    |
| UCX15-213D1    | TX15D1                       | —                                                          | C(CM)-UCTX15-213D1                                | —                              | 2 <sup>1</sup> / <sub>32</sub>  | —                              | 9 <sup>1</sup> / <sub>4</sub>   | 5 <sup>23</sup> / <sub>32</sub> | 18             | —     | 24    |
| UCX15-214D1    | TX15D1                       | —                                                          | C(CM)-UCTX15-214D1                                |                                |                                 |                                |                                 |                                 |                |       |       |
| UCX15-215D1    | TX15D1                       | —                                                          | C(CM)-UCTX15-215D1                                |                                |                                 |                                |                                 |                                 |                |       |       |
| UCX15-300D1    | TX15D1                       | —                                                          | C(CM)-UCTX15-300D1                                |                                |                                 |                                |                                 |                                 |                |       |       |
| UCX16D1        | TX16D1                       | —                                                          | C(CM)-UCTX16D1                                    | —                              | 19                              | —                              | 260                             | 155                             | 11             | —     | 14    |
| UCX16-301D1    | TX16D1                       | —                                                          | C(CM)-UCTX16-301D1                                | —                              | 3 <sup>3</sup> / <sub>4</sub>   | —                              | 10 <sup>1</sup> / <sub>4</sub>  | 6 <sup>3</sup> / <sub>32</sub>  | 24             | —     | 31    |
| UCX16-302D1    | TX16D1                       | —                                                          | C(CM)-UCTX16-302D1                                |                                |                                 |                                |                                 |                                 |                |       |       |
| UCX16-303D1    | TX16D1                       | —                                                          | C(CM)-UCTX16-303D1                                |                                |                                 |                                |                                 |                                 |                |       |       |
| UC217-304D1    | TX16D1                       | —                                                          | C(CM)-UCTX16-304D1                                |                                |                                 |                                |                                 |                                 |                |       |       |

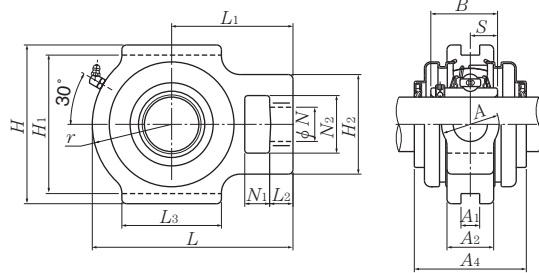
# Take-up units cast housing Set screw type



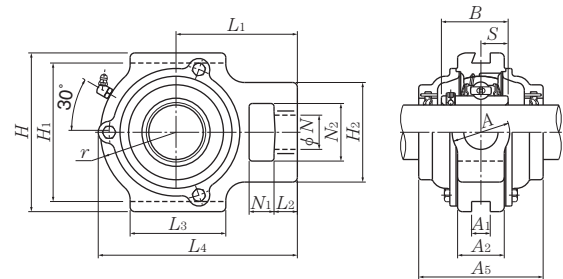
| Shaft<br>dia.                  | Unit number <sup>1)</sup> | Nominal dimensions            |                                |                               |                               |                               |                                |                |                                 |                                 |                                |                               |                               |                                 |                               |        |       |
|--------------------------------|---------------------------|-------------------------------|--------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------|----------------|---------------------------------|---------------------------------|--------------------------------|-------------------------------|-------------------------------|---------------------------------|-------------------------------|--------|-------|
|                                |                           | mm                            |                                |                               |                               |                               |                                |                |                                 | inch                            |                                |                               |                               |                                 |                               |        |       |
|                                |                           | N <sub>1</sub>                | L <sub>2</sub>                 | H <sub>2</sub>                | N <sub>2</sub>                | N                             | L <sub>3</sub>                 | A <sub>1</sub> | H <sub>1</sub>                  | H                               | L                              | A <sub>2</sub>                | A                             | r                               | L <sub>1</sub>                | B      | S     |
| 85                             | UCTX17D1                  | 38                            | 30                             | 124                           | 73                            | 48                            | 157                            | 28             | 173                             | 198                             | 260                            | 54                            | 73                            | 98                              | 162                           | 96     | 39.7  |
| 3 <sup>5</sup> / <sub>16</sub> | UCTX17-305D1              | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>3</sup> / <sub>16</sub> | 4 <sup>7</sup> / <sub>8</sub> | 2 <sup>7</sup> / <sub>8</sub> | 1 <sup>7</sup> / <sub>8</sub> | 6 <sup>3</sup> / <sub>16</sub> | 1.102          | 6 <sup>13</sup> / <sub>16</sub> | 7 <sup>25</sup> / <sub>32</sub> | 10 <sup>1</sup> / <sub>4</sub> | 2 <sup>1</sup> / <sub>8</sub> | 2 <sup>7</sup> / <sub>8</sub> | 3 <sup>27</sup> / <sub>32</sub> | 6 <sup>3</sup> / <sub>8</sub> | 3.7795 | 1.563 |
| 3 <sup>7</sup> / <sub>16</sub> | UCTX17-307D1              |                               |                                |                               |                               |                               |                                |                |                                 |                                 |                                |                               |                               |                                 |                               |        |       |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

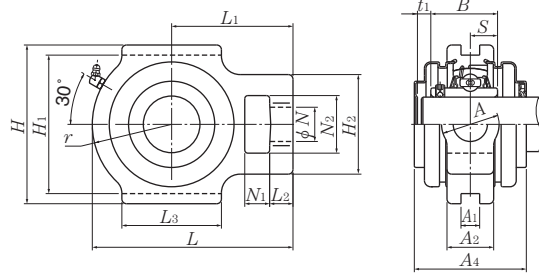
Note: Please refer to page 36 for size of grease fitting.



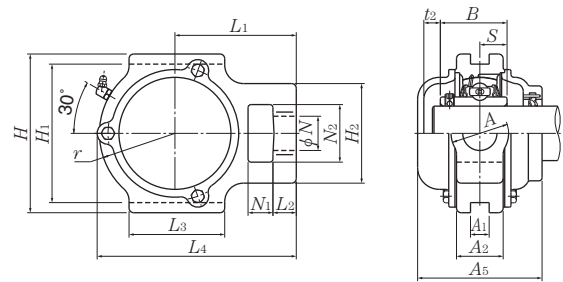
Press steel dust cover type (Open end)  
S-UCT...D1



Cast dust cover type (Open end)  
C-UCT...D1



Press steel dust cover type (Close end)  
SM-UCT...D1

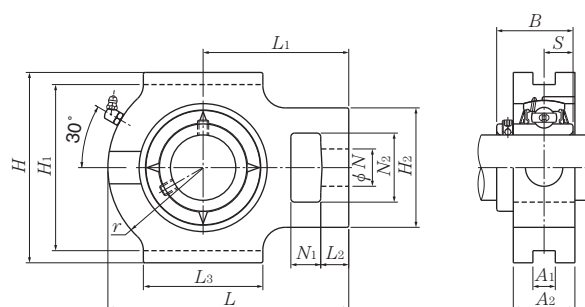


Cast dust cover type (Close end)  
CM-UCT...D1

| Bearing number | Housing number <sup>1)</sup> | Unit number <sup>1)</sup><br>pressed steel dust cover type | Unit number <sup>1)</sup><br>cast dust cover type | Nominal dimensions |                                 |                |                                 |                               | Mass (approx.) |       |       |
|----------------|------------------------------|------------------------------------------------------------|---------------------------------------------------|--------------------|---------------------------------|----------------|---------------------------------|-------------------------------|----------------|-------|-------|
|                |                              |                                                            |                                                   | mm                 |                                 | inch           |                                 |                               | kg             |       | lb    |
|                |                              |                                                            |                                                   | t <sub>1</sub>     | t <sub>2</sub>                  | A <sub>4</sub> | L <sub>4</sub>                  | A <sub>5</sub>                | UCT            | S(SM) | C(CM) |
| UCX17D1        | TX17D1                       | —                                                          | C(CM)-UCTX17D1                                    | —                  | 20                              | —              | 262                             | 165                           | 11             | —     | 15    |
| UCX17-305D1    | TX17D1                       | —                                                          | C(CM)-UCTX17-305D1                                | —                  | 25 <sup>5</sup> / <sub>32</sub> | —              | 10 <sup>5</sup> / <sub>16</sub> | 6 <sup>1</sup> / <sub>2</sub> | 24             | —     | 33    |
| UCX17-307D1    | TX17D1                       | —                                                          | C(CM)-UCTX17-307D1                                | —                  | —                               | —              | —                               | —                             | —              | —     | —     |

# Take-up units (Steel series)

## Set screw type



| Shaft<br>dia.<br><br>mm | Unit number <sup>1)</sup> | Nominal dimensions |                |                |                |    |                |                |                |     |     |                |    |                |      |      |
|-------------------------|---------------------------|--------------------|----------------|----------------|----------------|----|----------------|----------------|----------------|-----|-----|----------------|----|----------------|------|------|
|                         |                           | mm                 |                |                |                |    |                |                |                |     |     |                |    |                |      |      |
|                         |                           | N <sub>1</sub>     | L <sub>2</sub> | H <sub>2</sub> | N <sub>2</sub> | N  | L <sub>3</sub> | A <sub>1</sub> | H <sub>1</sub> | H   | L   | A <sub>2</sub> | r  | L <sub>1</sub> | B    | S    |
| 12                      | UCTG201D1                 | 16                 | 12             | 51             | 32             | 19 | 51             | 12             | 76             | 89  | 94  | 30             | 33 | 61             | 31   | 12.7 |
| 15                      | UCTG202D1                 | 16                 | 12             | 51             | 32             | 19 | 51             | 12             | 76             | 89  | 94  | 30             | 33 | 61             | 31   | 12.7 |
| 17                      | UCTG203D1                 | 16                 | 12             | 51             | 32             | 19 | 51             | 12             | 76             | 89  | 94  | 30             | 33 | 61             | 31   | 12.7 |
| 20                      | UCTG204D1                 | 16                 | 12             | 51             | 32             | 19 | 51             | 12             | 76             | 89  | 94  | 30             | 33 | 61             | 31   | 12.7 |
| 25                      | UCTG205D1                 | 16                 | 12             | 51             | 32             | 19 | 51             | 12             | 76             | 89  | 97  | 30             | 35 | 62             | 34.1 | 14.3 |
| 30                      | UCTG206D1                 | 16                 | 12             | 56             | 37             | 22 | 57             | 12             | 89             | 102 | 113 | 35             | 43 | 70             | 38.1 | 15.9 |
| 35                      | UCTG207D1                 | 16                 | 15             | 64             | 37             | 22 | 64             | 12             | 89             | 102 | 129 | 35             | 51 | 78             | 42.9 | 17.5 |
| 40                      | UCTG208D1                 | 19                 | 18             | 83             | 49             | 29 | 83             | 16             | 102            | 114 | 144 | 45             | 56 | 88             | 49.2 | 19   |
| 45                      | UCTG209D1                 | 19                 | 18             | 83             | 49             | 29 | 83             | 16             | 102            | 117 | 145 | 45             | 57 | 88             | 49.2 | 19   |
| 50                      | UCTG210D1                 | 19                 | 18             | 83             | 49             | 29 | 86             | 16             | 102            | 117 | 151 | 45             | 59 | 92             | 51.6 | 19   |
| 55                      | UCTG211D1                 | 25                 | 21             | 102            | 64             | 35 | 95             | 22             | 130            | 146 | 171 | 55             | 65 | 106            | 55.6 | 22.2 |
| 60                      | UCTG212D1                 | 32                 | 21             | 102            | 64             | 35 | 102            | 22             | 130            | 146 | 194 | 55             | 75 | 119            | 65.1 | 25.4 |
| 65                      | UCTG213D1                 | 32                 | 23             | 111            | 70             | 41 | 121            | 26             | 151            | 167 | 224 | 60             | 87 | 137            | 65.1 | 25.4 |
| 70                      | UCTG214D1                 | 32                 | 23             | 111            | 70             | 41 | 121            | 26             | 151            | 167 | 224 | 60             | 87 | 137            | 74.6 | 30.2 |
| 75                      | UCTG215D1                 | 32                 | 23             | 111            | 70             | 41 | 121            | 26             | 151            | 167 | 232 | 60             | 92 | 140            | 77.8 | 33.3 |
| 80                      | UCTG216D1                 | 32                 | 23             | 111            | 70             | 41 | 121            | 26             | 165            | 184 | 235 | 60             | 95 | 140            | 82.6 | 33.3 |
| 85                      | UCTG217D1                 | 38                 | 31             | 124            | 73             | 48 | 157            | 30             | 173            | 198 | 260 | 70             | 98 | 162            | 85.7 | 34.1 |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

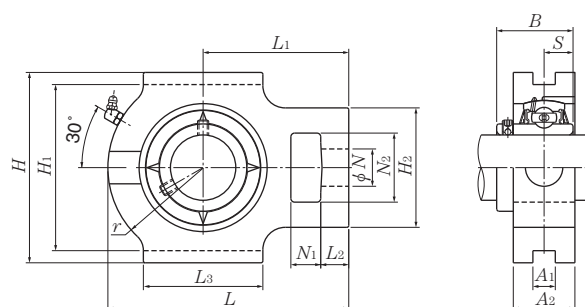
Note: 1) Please refer to page 36 for size of grease fitting.

2) Please refer to page 410-415 for inch series bearings.

| Bearing number | Housing <sup>1)</sup><br>number | Mass<br>(approx.)<br><br>kg |
|----------------|---------------------------------|-----------------------------|
| UC201D1        | TG204D1                         | 1.2                         |
| UC202D1        | TG204D1                         | 1.2                         |
| UC203D1        | TG204D1                         | 1.1                         |
| UC204D1        | TG204D1                         | 1.1                         |
| UC205D1        | TG205D1                         | 1.1                         |
| UC206D1        | TG206D1                         | 1.7                         |
| UC207D1        | TG207D1                         | 2.0                         |
| UC208D1        | TG208D1                         | 3.3                         |
| UC209D1        | TG209D1                         | 3.2                         |
| UC210D1        | TG210D1                         | 3.3                         |
| UC211D1        | TG211D1                         | 5.7                         |
| UC212D1        | TG212D1                         | 6.4                         |
| UC213D1        | TG213D1                         | 9.6                         |
| UC214D1        | TG214D1                         | 9.4                         |
| UC215D1        | TG215D1                         | 9.7                         |
| UC216D1        | TG216D1                         | 10                          |
| UC217D1        | TG217D1                         | 15                          |

# Take-up units (Steel series)

## Set screw type



| Shaft<br>dia.<br><br>mm | Unit number <sup>1)</sup> | Nominal dimensions |                |                |                |    |                |                |                |     |     |                |     |                |     |    |
|-------------------------|---------------------------|--------------------|----------------|----------------|----------------|----|----------------|----------------|----------------|-----|-----|----------------|-----|----------------|-----|----|
|                         |                           | mm                 |                |                |                |    |                |                |                |     |     |                |     |                |     |    |
|                         |                           | N <sub>1</sub>     | L <sub>2</sub> | H <sub>2</sub> | N <sub>2</sub> | N  | L <sub>3</sub> | A <sub>1</sub> | H <sub>1</sub> | H   | L   | A <sub>2</sub> | r   | L <sub>1</sub> | B   | S  |
| 25                      | UCTG305D1                 | 16                 | 14             | 62             | 36             | 26 | 65             | 12             | 80             | 89  | 122 | 35             | 46  | 76             | 38  | 15 |
| 30                      | UCTG306D1                 | 18                 | 16             | 70             | 41             | 28 | 74             | 16             | 90             | 100 | 137 | 40             | 52  | 85             | 43  | 17 |
| 35                      | UCTG307D1                 | 20                 | 17             | 75             | 45             | 30 | 80             | 16             | 100            | 111 | 150 | 40             | 56  | 94             | 48  | 19 |
| 40                      | UCTG308D1                 | 22                 | 19             | 83             | 50             | 32 | 89             | 18             | 112            | 124 | 162 | 45             | 62  | 100            | 52  | 19 |
| 45                      | UCTG309D1                 | 24                 | 20             | 90             | 55             | 34 | 97             | 18             | 125            | 138 | 178 | 50             | 68  | 110            | 57  | 22 |
| 50                      | UCTG310D1                 | 27                 | 22             | 98             | 61             | 37 | 106            | 20             | 140            | 151 | 192 | 55             | 74  | 118            | 61  | 22 |
| 55                      | UCTG311D1                 | 29                 | 23             | 105            | 66             | 39 | 115            | 22             | 150            | 163 | 207 | 60             | 80  | 127            | 66  | 25 |
| 60                      | UCTG312D1                 | 31                 | 25             | 113            | 71             | 41 | 123            | 22             | 160            | 178 | 220 | 65             | 85  | 135            | 71  | 26 |
| 65                      | UCTG313D1                 | 32                 | 27             | 116            | 70             | 43 | 134            | 26             | 170            | 190 | 238 | 65             | 92  | 146            | 75  | 30 |
| 70                      | UCTG314D1                 | 36                 | 27             | 130            | 85             | 46 | 140            | 26             | 180            | 202 | 252 | 70             | 97  | 155            | 78  | 33 |
| 75                      | UCTG315D1                 | 36                 | 27             | 132            | 85             | 46 | 150            | 26             | 192            | 216 | 262 | 70             | 102 | 160            | 82  | 32 |
| 80                      | UCTG316D1                 | 42                 | 30             | 150            | 98             | 53 | 160            | 30             | 204            | 230 | 282 | 80             | 108 | 174            | 86  | 34 |
| 85                      | UCTG317D1                 | 42                 | 32             | 152            | 98             | 53 | 170            | 32             | 214            | 240 | 298 | 80             | 115 | 183            | 96  | 40 |
| 90                      | UCTG318D1                 | 46                 | 32             | 160            | 106            | 57 | 175            | 32             | 228            | 255 | 312 | 90             | 120 | 192            | 96  | 40 |
| 95                      | UCTG319D1                 | 46                 | 33             | 165            | 106            | 57 | 180            | 35             | 240            | 270 | 322 | 90             | 125 | 197            | 103 | 41 |
| 100                     | UCTG320D1                 | 48                 | 34             | 175            | 115            | 59 | 200            | 35             | 260            | 290 | 345 | 100            | 135 | 210            | 108 | 42 |
| 105                     | UCTG321D1                 | 48                 | 34             | 175            | 115            | 59 | 200            | 35             | 260            | 290 | 347 | 100            | 135 | 212            | 112 | 44 |
| 110                     | UCTG322D1                 | 52                 | 40             | 185            | 125            | 65 | 215            | 38             | 285            | 320 | 385 | 100            | 150 | 235            | 117 | 46 |
| 120                     | UCTG324D1                 | 60                 | 44             | 210            | 140            | 70 | 230            | 45             | 320            | 355 | 432 | 110            | 165 | 267            | 126 | 51 |
| 130                     | UCTG326D1                 | 65                 | 47             | 220            | 150            | 75 | 240            | 50             | 350            | 385 | 465 | 120            | 180 | 285            | 135 | 54 |
| 140                     | UCTG328D1                 | 70                 | 52             | 230            | 160            | 80 | 255            | 50             | 380            | 415 | 515 | 120            | 200 | 315            | 145 | 59 |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

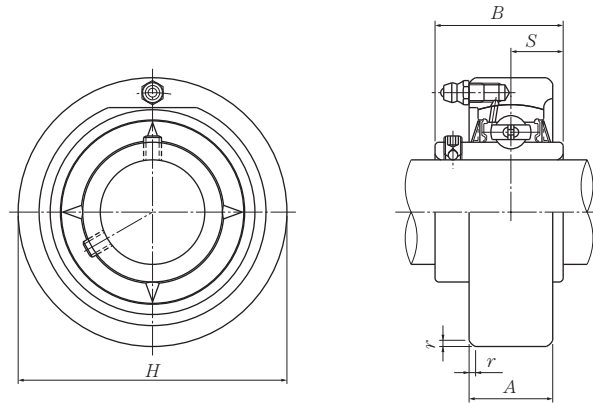
Note: 1) Please refer to page 36 for size of grease fitting.

2) Please refer to page 416-420 for inch series bearings.

| Bearing number | Housing number <sup>1)</sup> | Mass<br>(approx.)<br><br>kg |
|----------------|------------------------------|-----------------------------|
| UC305D1        | TG305D1                      | 1.8                         |
| UC306D1        | TG306D1                      | 2.5                         |
| UC307D1        | TG307D1                      | 3.0                         |
| UC308D1        | TG308D1                      | 4.0                         |
| UC309D1        | TG309D1                      | 5.4                         |
| UC310D1        | TG310D1                      | 6.9                         |
| UC311D1        | TG311D1                      | 8.6                         |
| UC312D1        | TG312D1                      | 11                          |
| UC313D1        | TG313D1                      | 12                          |
| UC314D1        | TG314D1                      | 15                          |
| UC315D1        | TG315D1                      | 17                          |
| UC316D1        | TG316D1                      | 22                          |
| UC317D1        | TG317D1                      | 24                          |
| UC318D1        | TG318D1                      | 29                          |
| UC319D1        | TG319D1                      | 31                          |
| UC320D1        | TG320D1                      | 41                          |
| UC321D1        | TG321D1                      | 40                          |
| UC322D1        | TG322D1                      | 49                          |
| UC324D1        | TG324D1                      | 68                          |
| UC326D1        | TG326D1                      | 85                          |
| UC328D1        | TG328D1                      | 103                         |



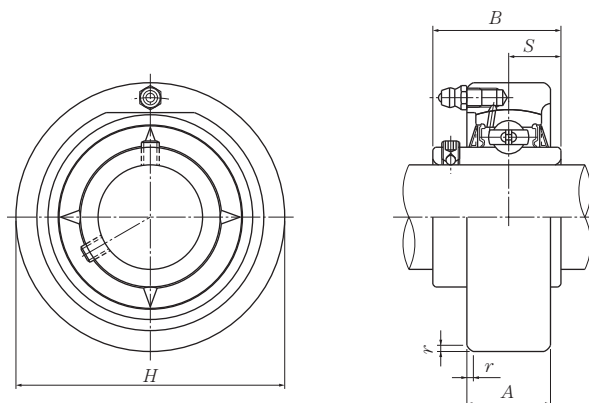
# Cartridge units cast housing Set screw type



| Shaft<br>dia.                                                                       | Unit number <sup>1)</sup>                                                                                   | Nominal dimensions   |                              |                     |                       |                      | Bearing number                                                             | Housing<br>number <sup>1)</sup>                       | Mass<br>(approx.) |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------|------------------------------|---------------------|-----------------------|----------------------|----------------------------------------------------------------------------|-------------------------------------------------------|-------------------|
|                                                                                     |                                                                                                             | H                    | A                            | r                   | B                     | S                    |                                                                            |                                                       |                   |
| mm<br>inch                                                                          |                                                                                                             |                      |                              |                     |                       |                      |                                                                            |                                                       | kg lb             |
| <b>12</b><br>$\frac{1}{2}$                                                          | <b>UCC201D1</b><br><b>UCC201-008D1</b>                                                                      | <b>72</b><br>2.8346  | <b>20</b><br>$\frac{25}{32}$ | <b>2</b><br>0.079   | <b>31</b><br>1.2205   | <b>12.7</b><br>0.500 | <b>UC201D1</b><br>UC201-008D1                                              | <b>C204D1</b><br>C204D1                               | <b>0.5</b><br>1.1 |
| <b>15</b><br>$\frac{9}{16}$<br>$\frac{5}{8}$                                        | <b>UCC202D1</b><br><b>UCC202-009D1</b><br><b>UCC202-010D1</b>                                               | <b>72</b><br>2.8346  | <b>20</b><br>$\frac{25}{32}$ | <b>2</b><br>0.079   | <b>31</b><br>1.2205   | <b>12.7</b><br>0.500 | <b>UC202D1</b><br>UC202-009D1<br>UC202-010D1                               | <b>C204D1</b><br>C204D1<br>C204D1                     | <b>0.5</b><br>1.1 |
| <b>17</b><br>$\frac{11}{16}$                                                        | <b>UCC203D1</b><br><b>UCC203-011D1</b>                                                                      | <b>72</b><br>2.8346  | <b>20</b><br>$\frac{25}{32}$ | <b>2</b><br>0.079   | <b>31</b><br>1.2205   | <b>12.7</b><br>0.500 | <b>UC203D1</b><br>UC203-011D1                                              | <b>C204D1</b><br>C204D1                               | <b>0.5</b><br>1.1 |
| <b>20</b><br>$\frac{3}{4}$                                                          | <b>UCC204D1</b><br><b>UCC204-012D1</b>                                                                      | <b>72</b><br>2.8346  | <b>20</b><br>$\frac{25}{32}$ | <b>2</b><br>0.079   | <b>31</b><br>1.2205   | <b>12.7</b><br>0.500 | <b>UC204D1</b><br>UC204-012D1                                              | <b>C204D1</b><br>C204D1                               | <b>0.5</b><br>1.1 |
| <b>25</b><br>$\frac{13}{16}$<br>$\frac{7}{8}$<br>$\frac{15}{16}$<br><b>1</b>        | <b>UCC205D1</b><br><b>UCC205-013D1</b><br><b>UCC205-014D1</b><br><b>UCC205-015D1</b><br><b>UCC205-100D1</b> | <b>80</b><br>3.1496  | <b>22</b><br>$\frac{55}{64}$ | <b>2</b><br>0.079   | <b>34.1</b><br>1.3425 | <b>14.3</b><br>0.563 | <b>UC205D1</b><br>UC205-013D1<br>UC205-014D1<br>UC205-015D1<br>UC205-100D1 | <b>C205D1</b><br>C205D1<br>C205D1<br>C205D1<br>C205D1 | <b>0.6</b><br>1.3 |
| <b>30</b><br>$1\frac{1}{16}$<br>$1\frac{1}{8}$<br>$1\frac{3}{16}$<br>$1\frac{1}{4}$ | <b>UCC206D1</b><br><b>UCC206-101D1</b><br><b>UCC206-102D1</b><br><b>UCC206-103D1</b><br><b>UCC206-104D1</b> | <b>85</b><br>3.3465  | <b>27</b><br>$1\frac{1}{16}$ | <b>2</b><br>0.079   | <b>38.1</b><br>1.5000 | <b>15.9</b><br>0.626 | <b>UC206D1</b><br>UC206-101D1<br>UC206-102D1<br>UC206-103D1<br>UC206-104D1 | <b>C206D1</b><br>C206D1<br>C206D1<br>C206D1<br>C206D1 | <b>0.8</b><br>1.8 |
| <b>35</b><br>$1\frac{1}{4}$<br>$1\frac{5}{16}$<br>$1\frac{3}{8}$<br>$1\frac{7}{16}$ | <b>UCC207D1</b><br><b>UCC207-104D1</b><br><b>UCC207-105D1</b><br><b>UCC207-106D1</b><br><b>UCC207-107D1</b> | <b>90</b><br>3.5433  | <b>28</b><br>$1\frac{7}{64}$ | <b>2</b><br>0.079   | <b>42.9</b><br>1.6890 | <b>17.5</b><br>0.689 | <b>UC207D1</b><br>UC207-104D1<br>UC207-105D1<br>UC207-106D1<br>UC207-107D1 | <b>C207D1</b><br>C207D1<br>C207D1<br>C207D1<br>C207D1 | <b>0.9</b><br>2.0 |
| <b>40</b><br>$1\frac{1}{2}$<br>$1\frac{9}{16}$                                      | <b>UCC208D1</b><br><b>UCC208-108D1</b><br><b>UCC208-109D1</b>                                               | <b>100</b><br>3.9370 | <b>30</b><br>$1\frac{3}{16}$ | <b>2.5</b><br>0.098 | <b>49.2</b><br>1.9370 | <b>19</b><br>0.748   | <b>UC208D1</b><br>UC208-108D1<br>UC208-109D1                               | <b>C208D1</b><br>C208D1<br>C208D1                     | <b>1.2</b><br>2.7 |
| <b>45</b><br>$1\frac{5}{8}$<br>$1\frac{11}{16}$<br>$1\frac{3}{4}$                   | <b>UCC209D1</b><br><b>UCC209-110D1</b><br><b>UCC209-111D1</b><br><b>UCC209-112D1</b>                        | <b>110</b><br>4.3307 | <b>31</b><br>$1\frac{7}{32}$ | <b>2.5</b><br>0.098 | <b>49.2</b><br>1.9370 | <b>19</b><br>0.748   | <b>UC209D1</b><br>UC209-110D1<br>UC209-111D1<br>UC209-112D1                | <b>C209D1</b><br>C209D1<br>C209D1<br>C209D1           | <b>1.5</b><br>3.3 |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

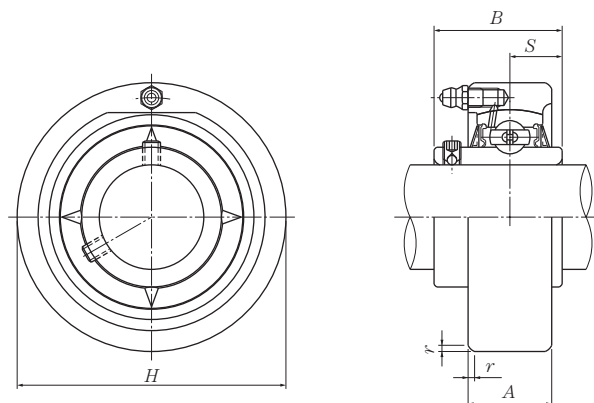
Note: Please refer to page 36 for size of grease fitting.



| Shaft<br>dia.    | Unit number <sup>1)</sup> | Nominal dimensions |                  |            |             |             | Bearing number | Housing<br>number <sup>1)</sup> | Mass<br>(approx.) |
|------------------|---------------------------|--------------------|------------------|------------|-------------|-------------|----------------|---------------------------------|-------------------|
|                  |                           | <i>H</i>           | <i>A</i>         | <i>r</i>   | <i>B</i>    | <i>S</i>    |                |                                 |                   |
| mm<br>inch       |                           |                    | mm               | inch       |             |             |                |                                 | kg lb             |
| <b>50</b>        | <b>UCC210D1</b>           | <b>120</b>         | <b>33</b>        | <b>2.5</b> | <b>51.6</b> | <b>19</b>   | <b>UC210D1</b> | <b>C210D1</b>                   | <b>1.9</b>        |
| $1\frac{13}{16}$ | <b>UCC210-113D1</b>       |                    |                  |            |             |             | UC210-113D1    | C210D1                          |                   |
| $1\frac{7}{8}$   | <b>UCC210-114D1</b>       | 4.7244             | $1\frac{19}{64}$ | 0.098      | 2.0315      | 0.748       | UC210-114D1    | C210D1                          | 4.2               |
| $1\frac{15}{16}$ | <b>UCC210-115D1</b>       |                    |                  |            |             |             | UC210-115D1    | C210D1                          |                   |
| <b>2</b>         | <b>UCC210-200D1</b>       |                    |                  |            |             |             | UC210-200D1    | C210D1                          |                   |
| <b>55</b>        | <b>UCC211D1</b>           | <b>125</b>         | <b>35</b>        | <b>2.5</b> | <b>55.6</b> | <b>22.2</b> | <b>UC211D1</b> | <b>C211D1</b>                   | <b>2.1</b>        |
| <b>2</b>         | <b>UCC211-200D1</b>       |                    |                  |            |             |             | UC211-200D1    | C211D1                          |                   |
| $2\frac{1}{16}$  | <b>UCC211-201D1</b>       | 4.9213             | $1\frac{3}{8}$   | 0.098      | 2.1890      | 0.874       | UC211-201D1    | C211D1                          | 4.6               |
| $2\frac{1}{8}$   | <b>UCC211-202D1</b>       |                    |                  |            |             |             | UC211-202D1    | C211D1                          |                   |
| $2\frac{3}{16}$  | <b>UCC211-203D1</b>       |                    |                  |            |             |             | UC211-203D1    | C211D1                          |                   |
| <b>60</b>        | <b>UCC212D1</b>           | <b>130</b>         | <b>38</b>        | <b>2.5</b> | <b>65.1</b> | <b>25.4</b> | <b>UC212D1</b> | <b>C212D1</b>                   | <b>2.5</b>        |
| $2\frac{1}{4}$   | <b>UCC212-204D1</b>       |                    |                  |            |             |             | UC212-204D1    | C212D1                          |                   |
| $2\frac{5}{16}$  | <b>UCC212-205D1</b>       | 5.1181             | $1\frac{1}{2}$   | 0.098      | 2.5630      | 1.000       | UC212-205D1    | C212D1                          | 5.5               |
| $2\frac{3}{8}$   | <b>UCC212-206D1</b>       |                    |                  |            |             |             | UC212-206D1    | C212D1                          |                   |
| $2\frac{7}{16}$  | <b>UCC212-207D1</b>       |                    |                  |            |             |             | UC212-207D1    | C212D1                          |                   |
| <b>65</b>        | <b>UCC213D1</b>           | <b>140</b>         | <b>40</b>        | <b>3</b>   | <b>65.1</b> | <b>25.4</b> | <b>UC213D1</b> | <b>C213D1</b>                   | <b>3.0</b>        |
| $2\frac{1}{2}$   | <b>UCC213-208D1</b>       | 5.5118             | $1\frac{37}{64}$ | 0.118      | 2.5630      | 1.000       | UC213-208D1    | C213D1                          | 6.6               |
| $2\frac{9}{16}$  | <b>UCC213-209D1</b>       |                    |                  |            |             |             | UC213-209D1    | C213D1                          |                   |

## Cartridge units cast housing

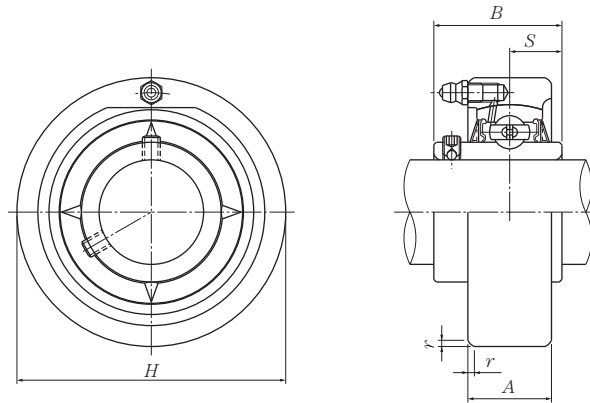
### Set screw type



| Shaft<br>dia.   | Unit number <sup>1)</sup> | Nominal dimensions |                  |            |           |           | Bearing number | Housing<br>number <sup>1)</sup> | Mass<br>(approx.) |
|-----------------|---------------------------|--------------------|------------------|------------|-----------|-----------|----------------|---------------------------------|-------------------|
|                 |                           | H                  | A                | r          | B         | S         |                |                                 |                   |
| mm<br>inch      |                           |                    |                  |            |           |           |                |                                 | kg lb             |
| <b>25</b>       | <b>UCC305D1</b>           | <b>90</b>          | <b>26</b>        | <b>2.5</b> | <b>38</b> | <b>15</b> | <b>UC305D1</b> | <b>C305D1</b>                   | <b>1.0</b>        |
| $\frac{13}{16}$ | <b>UCC305-013D1</b>       |                    |                  |            |           |           | UC305-013D1    | C305D1                          |                   |
| $\frac{7}{8}$   | <b>UCC305-014D1</b>       | 3.5433             | $1\frac{1}{32}$  | 0.098      | 1.4961    | 0.591     | UC305-014D1    | C305D1                          | 2.2               |
| $\frac{15}{16}$ | <b>UCC305-015D1</b>       |                    |                  |            |           |           | UC305-015D1    | C305D1                          |                   |
| <b>1</b>        | <b>UCC305-100D1</b>       |                    |                  |            |           |           | UC305-100D1    | C305D1                          |                   |
| <b>30</b>       | <b>UCC306D1</b>           | <b>100</b>         | <b>28</b>        | <b>2.5</b> | <b>43</b> | <b>17</b> | <b>UC306D1</b> | <b>C306D1</b>                   | <b>1.3</b>        |
| $\frac{11}{16}$ | <b>UCC306-101D1</b>       |                    |                  |            |           |           | UC306-101D1    | C306D1                          |                   |
| $\frac{11}{8}$  | <b>UCC306-102D1</b>       | 3.9370             | $1\frac{7}{64}$  | 0.098      | 1.6929    | 0.669     | UC306-102D1    | C306D1                          | 2.9               |
| $\frac{13}{16}$ | <b>UCC306-103D1</b>       |                    |                  |            |           |           | UC306-103D1    | C306D1                          |                   |
| <b>35</b>       | <b>UCC307D1</b>           | <b>110</b>         | <b>32</b>        | <b>3</b>   | <b>48</b> | <b>19</b> | <b>UC307D1</b> | <b>C307D1</b>                   | <b>1.7</b>        |
| $\frac{11}{4}$  | <b>UCC307-104D1</b>       |                    |                  |            |           |           | UC307-104D1    | C307D1                          |                   |
| $\frac{15}{16}$ | <b>UCC307-105D1</b>       | 4.3307             | $1\frac{17}{64}$ | 0.118      | 1.8898    | 0.748     | UC307-105D1    | C307D1                          | 3.8               |
| $\frac{13}{8}$  | <b>UCC307-106D1</b>       |                    |                  |            |           |           | UC307-106D1    | C307D1                          |                   |
| $\frac{17}{16}$ | <b>UCC307-107D1</b>       |                    |                  |            |           |           | UC307-107D1    | C307D1                          |                   |
| <b>40</b>       | <b>UCC308D1</b>           | <b>120</b>         | <b>34</b>        | <b>3</b>   | <b>52</b> | <b>19</b> | <b>UC308D1</b> | <b>C308D1</b>                   | <b>2.1</b>        |
| $\frac{11}{2}$  | <b>UCC308-108D1</b>       | 4.7244             | $1\frac{11}{32}$ | 0.118      | 2.0472    | 0.748     | UC308-108D1    | C308D1                          | 4.6               |
| $\frac{19}{16}$ | <b>UCC308-109D1</b>       |                    |                  |            |           |           | UC308-109D1    | C308D1                          |                   |
| <b>45</b>       | <b>UCC309D1</b>           | <b>130</b>         | <b>38</b>        | <b>3.5</b> | <b>57</b> | <b>22</b> | <b>UC309D1</b> | <b>C309D1</b>                   | <b>2.7</b>        |
| $\frac{15}{8}$  | <b>UCC309-110D1</b>       |                    |                  |            |           |           | UC309-110D1    | C309D1                          |                   |
| $\frac{11}{16}$ | <b>UCC309-111D1</b>       | 5.1181             | $1\frac{1}{2}$   | 0.138      | 2.2441    | 0.866     | UC309-111D1    | C309D1                          | 6.0               |
| $\frac{13}{4}$  | <b>UCC309-112D1</b>       |                    |                  |            |           |           | UC309-112D1    | C309D1                          |                   |
| <b>50</b>       | <b>UCC310D1</b>           | <b>140</b>         | <b>40</b>        | <b>3.5</b> | <b>61</b> | <b>22</b> | <b>UC310D1</b> | <b>C310D1</b>                   | <b>3.3</b>        |
| $\frac{13}{16}$ | <b>UCC310-113D1</b>       |                    |                  |            |           |           | UC310-113D1    | C310D1                          |                   |
| $\frac{17}{8}$  | <b>UCC310-114D1</b>       | 5.5118             | $1\frac{37}{64}$ | 0.138      | 2.4016    | 0.866     | UC310-114D1    | C310D1                          | 7.3               |
| $\frac{15}{16}$ | <b>UCC310-115D1</b>       |                    |                  |            |           |           | UC310-115D1    | C310D1                          |                   |
| <b>55</b>       | <b>UCC311D1</b>           | <b>150</b>         | <b>44</b>        | <b>3.5</b> | <b>66</b> | <b>25</b> | <b>UC311D1</b> | <b>C311D1</b>                   | <b>4.0</b>        |
| <b>2</b>        | <b>UCC311-200D1</b>       |                    |                  |            |           |           | UC311-200D1    | C311D1                          |                   |
| $\frac{21}{16}$ | <b>UCC311-201D1</b>       | 5.9055             | $1\frac{47}{64}$ | 0.138      | 2.5984    | 0.984     | UC311-201D1    | C311D1                          | 8.8               |
| $\frac{21}{8}$  | <b>UCC311-202D1</b>       |                    |                  |            |           |           | UC311-202D1    | C311D1                          |                   |
| $\frac{23}{16}$ | <b>UCC311-203D1</b>       |                    |                  |            |           |           | UC311-203D1    | C311D1                          |                   |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

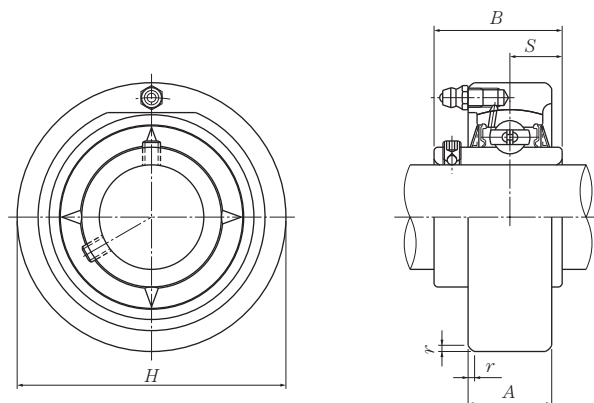
Note: Please refer to page 36 for size of grease fitting.



| Shaft<br>dia.    | Unit number <sup>1)</sup> | Nominal dimensions |                  |            |            |           | Bearing number | Housing<br>number <sup>1)</sup> | Mass<br>(approx.) |
|------------------|---------------------------|--------------------|------------------|------------|------------|-----------|----------------|---------------------------------|-------------------|
|                  |                           | H                  | A                | r          | B          | S         |                |                                 |                   |
| mm<br>inch       |                           |                    |                  |            |            |           |                |                                 | kg lb             |
| <b>60</b>        | <b>UCC312D1</b>           | <b>160</b>         | <b>46</b>        | <b>3.5</b> | <b>71</b>  | <b>26</b> | <b>UC312D1</b> | <b>C312D1</b>                   | <b>4.8</b>        |
| $2\frac{1}{4}$   | <b>UCC312-204D1</b>       |                    |                  |            |            |           | UC312-204D1    | C312D1                          |                   |
| $2\frac{5}{16}$  | <b>UCC312-205D1</b>       | 6.2992             | $1\frac{13}{16}$ | 0.138      | 2.7953     | 1.024     | UC312-205D1    | C312D1                          | 11                |
| $2\frac{3}{8}$   | <b>UCC312-206D1</b>       |                    |                  |            |            |           | UC312-206D1    | C312D1                          |                   |
| $2\frac{7}{16}$  | <b>UCC312-207D1</b>       |                    |                  |            |            |           | UC312-207D1    | C312D1                          |                   |
| <b>65</b>        | <b>UCC313D1</b>           | <b>170</b>         | <b>50</b>        | <b>3.5</b> | <b>75</b>  | <b>30</b> | <b>UC313D1</b> | <b>C313D1</b>                   | <b>5.8</b>        |
| $2\frac{1}{2}$   | <b>UCC313-208D1</b>       | 6.6929             | $1\frac{31}{32}$ | 0.138      | 2.9528     | 1.181     | UC313-208D1    | C313D1                          | 13                |
| $2\frac{9}{16}$  | <b>UCC313-209D1</b>       |                    |                  |            |            |           | UC313-209D1    | C313D1                          |                   |
| <b>70</b>        | <b>UCC314D1</b>           | <b>180</b>         | <b>52</b>        | <b>4</b>   | <b>78</b>  | <b>33</b> | <b>UC314D1</b> | <b>C314D1</b>                   | <b>6.8</b>        |
| $2\frac{5}{8}$   | <b>UCC314-210D1</b>       |                    |                  |            |            |           | UC314-210D1    | C314D1                          |                   |
| $2\frac{11}{16}$ | <b>UCC314-211D1</b>       | 7.0866             | $2\frac{3}{64}$  | 0.157      | 3.0709     | 1.299     | UC314-211D1    | C314D1                          | 15                |
| $2\frac{3}{4}$   | <b>UCC314-212D1</b>       |                    |                  |            |            |           | UC314-212D1    | C314D1                          |                   |
| <b>75</b>        | <b>UCC315D1</b>           | <b>190</b>         | <b>55</b>        | <b>4</b>   | <b>82</b>  | <b>32</b> | <b>UC315D1</b> | <b>C315D1</b>                   | <b>7.9</b>        |
| $2\frac{13}{16}$ | <b>UCC315-213D1</b>       |                    |                  |            |            |           | UC315-213D1    | C315D1                          |                   |
| $2\frac{7}{8}$   | <b>UCC315-214D1</b>       | 7.4803             | $2\frac{11}{64}$ | 0.157      | 3.2283     | 1.260     | UC315-214D1    | C315D1                          | 17                |
| $2\frac{15}{16}$ | <b>UCC315-215D1</b>       |                    |                  |            |            |           | UC315-215D1    | C315D1                          |                   |
| <b>3</b>         | <b>UCC315-300D1</b>       |                    |                  |            |            |           | UC315-300D1    | C315D1                          |                   |
| <b>80</b>        | <b>UCC316D1</b>           | <b>200</b>         | <b>60</b>        | <b>4</b>   | <b>86</b>  | <b>34</b> | <b>UC316D1</b> | <b>C316D1</b>                   | <b>9.3</b>        |
| $3\frac{1}{16}$  | <b>UCC316-301D1</b>       |                    |                  |            |            |           | UC316-301D1    | C316D1                          |                   |
| $3\frac{1}{8}$   | <b>UCC316-302D1</b>       | 7.8740             | $2\frac{23}{64}$ | 0.157      | 3.3858     | 1.339     | UC316-302D1    | C316D1                          | 21                |
| $3\frac{3}{16}$  | <b>UCC316-303D1</b>       |                    |                  |            |            |           | UC316-303D1    | C316D1                          |                   |
| <b>85</b>        | <b>UCC317D1</b>           | <b>215</b>         | <b>64</b>        | <b>4</b>   | <b>96</b>  | <b>40</b> | <b>UC317D1</b> | <b>C317D1</b>                   | <b>11</b>         |
| $3\frac{1}{4}$   | <b>UCC317-304D1</b>       |                    |                  |            |            |           | UC317-304D1    | C317D1                          |                   |
| $3\frac{5}{16}$  | <b>UCC317-305D1</b>       | 8.4646             | $2\frac{33}{64}$ | 0.157      | 3.7795     | 1.575     | UC317-305D1    | C317D1                          | 24                |
| $3\frac{7}{16}$  | <b>UCC317-307D1</b>       |                    |                  |            |            |           | UC317-307D1    | C317D1                          |                   |
| <b>90</b>        | <b>UCC318D1</b>           | <b>225</b>         | <b>66</b>        | <b>4</b>   | <b>96</b>  | <b>40</b> | <b>UC318D1</b> | <b>C318D1</b>                   | <b>13</b>         |
| $3\frac{1}{2}$   | <b>UCC318-308D1</b>       | 8.8583             | $2\frac{19}{32}$ | 0.157      | 3.7795     | 1.575     | UC318-308D1    | C318D1                          | 29                |
| <b>95</b>        | <b>UCC319D1</b>           | <b>240</b>         | <b>72</b>        | <b>4</b>   | <b>103</b> | <b>41</b> | <b>UC319D1</b> | <b>C319D1</b>                   | <b>16</b>         |
| $3\frac{5}{8}$   | <b>UCC319-310D1</b>       |                    |                  |            |            |           | UC319-310D1    | C319D1                          |                   |
| $3\frac{11}{16}$ | <b>UCC319-311D1</b>       | 9.4488             | $2\frac{53}{64}$ | 0.157      | 4.0551     | 1.614     | UC319-311D1    | C319D1                          | 35                |
| $3\frac{3}{4}$   | <b>UCC319-312D1</b>       |                    |                  |            |            |           | UC319-312D1    | C319D1                          |                   |

## Cartridge units cast housing

### Set screw type

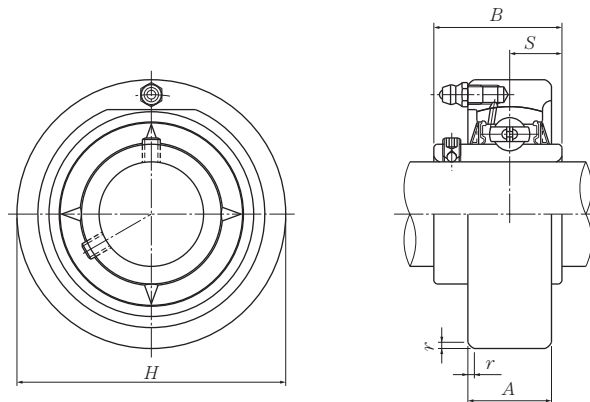


| Shaft<br>dia.                   | Unit number <sup>1)</sup> | Nominal dimensions |                                 |          |          |          | Bearing number | Housing <sup>1)</sup><br>number | Mass<br>(approx.) |
|---------------------------------|---------------------------|--------------------|---------------------------------|----------|----------|----------|----------------|---------------------------------|-------------------|
|                                 |                           | <i>H</i>           | <i>A</i>                        | <i>r</i> | <i>B</i> | <i>S</i> |                |                                 |                   |
| mm<br>inch                      |                           |                    | mm<br>inch                      |          |          |          |                |                                 | kg lb             |
| 100                             | UCC320D1                  | 260                | 75                              | 4        | 108      | 42       | UC320D1        | C320D1                          | 20                |
| 3 <sup>13</sup> / <sub>16</sub> | UCC320-313D1              |                    |                                 |          |          |          | UC320-313D1    | C320D1                          |                   |
| 3 <sup>7</sup> / <sub>8</sub>   | UCC320-314D1              | 10.2362            | 2 <sup>61</sup> / <sub>64</sub> | 0.157    | 4.2520   | 1.654    | UC320-314D1    | C320D1                          | 44                |
| 3 <sup>15</sup> / <sub>16</sub> | UCC320-315D1              |                    |                                 |          |          |          | UC320-315D1    | C320D1                          |                   |
| 4                               | UCC320-400D1              |                    |                                 |          |          |          | UC320-400D1    | C320D1                          |                   |
| 105                             | UCC321D1                  | 260                | 75                              | 4        | 112      | 44       | UC321D1        | C321D1                          | 19                |
| 110                             | UCC322D1                  | 300                | 80                              | 5        | 117      | 46       | UC322D1        | C322D1                          | 29                |
| 120                             | UCC324D1                  | 320                | 90                              | 5        | 126      | 51       | UC324D1        | C324D1                          | 36                |
| 130                             | UCC326D1                  | 340                | 100                             | 5        | 135      | 54       | UC326D1        | C326D1                          | 43                |
| 140                             | UCC328D1                  | 360                | 100                             | 5        | 145      | 59       | UC328D1        | C328D1                          | 50                |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

# Cartridge units cast housing Set screw type

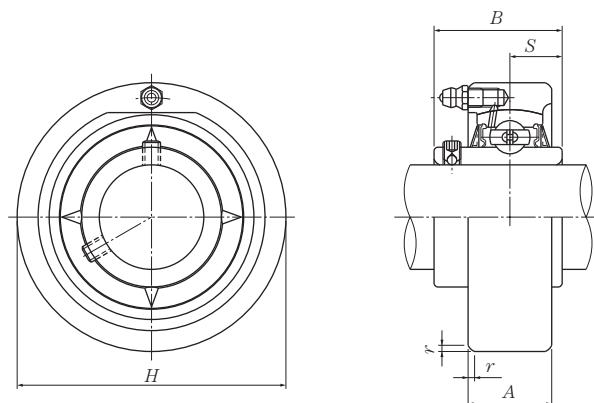


| Shaft<br>dia.    | Unit number <sup>1)</sup> | Nominal dimensions |                  |       |        |       | Bearing number | Housing<br>number <sup>1)</sup> | Mass<br>(approx.) |
|------------------|---------------------------|--------------------|------------------|-------|--------|-------|----------------|---------------------------------|-------------------|
|                  |                           | H                  | A                | r     | B      | S     |                |                                 |                   |
| mm               |                           |                    |                  |       |        |       |                |                                 |                   |
| inch             |                           |                    |                  |       |        |       |                |                                 |                   |
| 25               | UCCX05D1                  | 90                 | 27               | 2     | 38.1   | 15.9  | UCX05D1        | CX05D1                          | 1.1               |
| $\frac{13}{16}$  | UCCX05-013D1              |                    |                  |       |        |       | UCX05-013D1    | CX05D1                          |                   |
| $\frac{7}{8}$    | UCCX05-014D1              | 3.5433             | $1\frac{1}{16}$  | 0.079 | 1.5000 | 0.626 | UCX05-014D1    | CX05D1                          | 2.4               |
| $\frac{15}{16}$  | UCCX05-015D1              |                    |                  |       |        |       | UCX05-015D1    | CX05D1                          |                   |
| 1                | UCCX05-100D1              |                    |                  |       |        |       | UCX05-100D1    | CX05D1                          |                   |
| 30               | UCCX06D1                  | 100                | 30               | 2.5   | 42.9   | 17.5  | UCX06D1        | CX06D1                          | 1.6               |
| $1\frac{1}{16}$  | UCCX06-101D1              |                    |                  |       |        |       | UCX06-101D1    | CX06D1                          |                   |
| $1\frac{1}{8}$   | UCCX06-102D1              | 3.9370             | $1\frac{3}{16}$  | 0.098 | 1.6890 | 0.689 | UCX06-102D1    | CX06D1                          | 3.5               |
| $1\frac{3}{16}$  | UCCX06-103D1              |                    |                  |       |        |       | UCX06-103D1    | CX06D1                          |                   |
| $1\frac{1}{4}$   | UCCX06-104D1              |                    |                  |       |        |       | UC207-104D1    | CX06D1                          |                   |
| 35               | UCCX07D1                  | 110                | 34               | 2.5   | 49.2   | 19    | UCX07D1        | CX07D1                          | 1.8               |
| $1\frac{5}{16}$  | UCCX07-105D1              |                    |                  |       |        |       | UCX07-105D1    | CX07D1                          |                   |
| $1\frac{3}{8}$   | UCCX07-106D1              | 4.3307             | $1\frac{11}{32}$ | 0.098 | 1.9370 | 0.748 | UCX07-106D1    | CX07D1                          | 4.0               |
| $1\frac{7}{16}$  | UCCX07-107D1              |                    |                  |       |        |       | UCX07-107D1    | CX07D1                          |                   |
| 40               | UCCX08D1                  | 120                | 38               | 2.5   | 49.2   | 19    | UCX08D1        | CX08D1                          | 2.5               |
| $1\frac{1}{2}$   | UCCX08-108D1              | 4.7244             | $1\frac{1}{2}$   | 0.098 | 1.9370 | 0.748 | UCX08-108D1    | CX08D1                          | 5.5               |
| $1\frac{9}{16}$  | UCCX08-109D1              |                    |                  |       |        |       | UCX08-109D1    | CX08D1                          |                   |
| 45               | UCCX09D1                  | 120                | 38               | 2.5   | 51.6   | 19    | UCX09D1        | CX09D1                          | 2.2               |
| $1\frac{5}{8}$   | UCCX09-110D1              |                    |                  |       |        |       | UCX09-110D1    | CX09D1                          |                   |
| $1\frac{11}{16}$ | UCCX09-111D1              | 4.7244             | $1\frac{1}{2}$   | 0.098 | 2.0315 | 0.748 | UCX09-111D1    | CX09D1                          | 4.9               |
| $1\frac{3}{4}$   | UCCX09-112D1              |                    |                  |       |        |       | UCX09-112D1    | CX09D1                          |                   |
| $1\frac{13}{16}$ | UCCX09-113D1              |                    |                  |       |        |       | UC210-113D1    | CX09D1                          |                   |
| 50               | UCCX10D1                  | 130                | 40               | 2.5   | 55.6   | 22.2  | UCX10D1        | CX10D1                          | 2.7               |
| $1\frac{7}{8}$   | UCCX10-114D1              |                    |                  |       |        |       | UCX10-114D1    | CX10D1                          |                   |
| $1\frac{15}{16}$ | UCCX10-115D1              | 5.1181             | $1\frac{37}{64}$ | 0.098 | 2.1890 | 0.874 | UCX10-115D1    | CX10D1                          | 6.0               |
| 2                | UCCX10-200D1              |                    |                  |       |        |       | UC211-200D1    | CX10D1                          |                   |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".  
Note: Please refer to page 36 for size of grease fitting.

## Cartridge units cast housing

### Set screw type



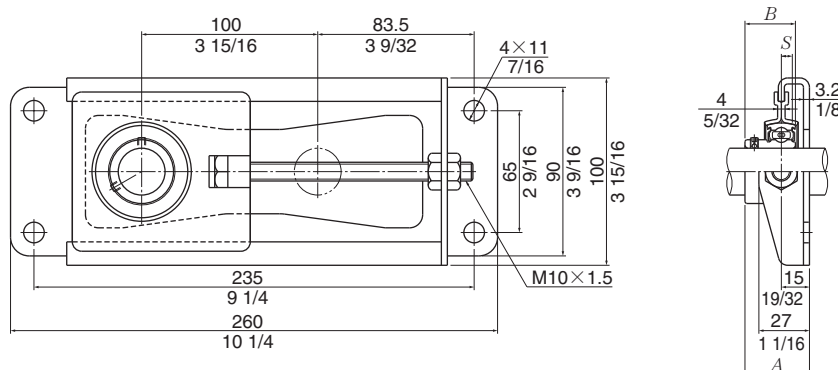
| Shaft<br>dia.   | Unit number <sup>1)</sup> | Nominal dimensions |                  |          |             |             | Bearing number | Housing<br>number <sup>1)</sup> | Mass<br>(approx.) |
|-----------------|---------------------------|--------------------|------------------|----------|-------------|-------------|----------------|---------------------------------|-------------------|
|                 |                           | <i>H</i>           | <i>A</i>         | <i>r</i> | <i>B</i>    | <i>S</i>    |                |                                 |                   |
| mm              |                           |                    | mm               |          | inch        |             |                |                                 |                   |
| inch            |                           |                    |                  |          |             |             |                |                                 | kg lb             |
| <b>55</b>       | <b>UCCX11D1</b>           | <b>150</b>         | <b>42</b>        | <b>3</b> | <b>65.1</b> | <b>25.4</b> | <b>UCX11D1</b> | <b>CX11D1</b>                   | <b>4.1</b>        |
| $2\frac{1}{16}$ | <b>UCCX11-201D1</b>       |                    |                  |          |             |             | UCX11-201D1    | CX11D1                          |                   |
| $2\frac{1}{8}$  | <b>UCCX11-202D1</b>       |                    |                  |          |             |             | UCX11-202D1    | CX11D1                          |                   |
| $2\frac{3}{16}$ | <b>UCCX11-203D1</b>       | 5.9055             | $1\frac{21}{32}$ | 0.118    | 2.5630      | 1.000       | UCX11-203D1    | CX11D1                          | 9.0               |
| $2\frac{1}{4}$  | <b>UCCX11-204D1</b>       |                    |                  |          |             |             | UC212-204D1    | CX11D1                          |                   |
| $2\frac{5}{16}$ | <b>UCCX11-205D1</b>       |                    |                  |          |             |             | UC212-205D1    | CX11D1                          |                   |
| <b>60</b>       | <b>UCCX12D1</b>           | <b>160</b>         | <b>44</b>        | <b>3</b> | <b>65.1</b> | <b>25.4</b> | <b>UCX12D1</b> | <b>CX12D1</b>                   | <b>3.9</b>        |
| $2\frac{3}{8}$  | <b>UCCX12-206D1</b>       | 6.2992             | $1\frac{47}{64}$ | 0.118    | 2.5630      | 1.000       | UCX12-206D1    | CX12D1                          | 8.6               |
| $2\frac{7}{16}$ | <b>UCCX12-207D1</b>       |                    |                  |          |             |             | UCX12-207D1    | CX12D1                          |                   |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

## Mini stretcher units

### Set screw type

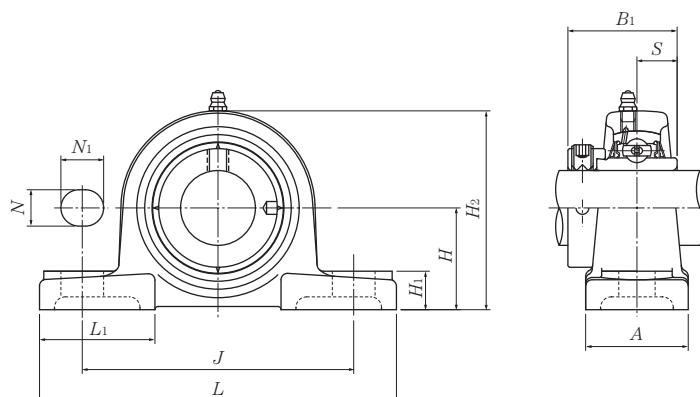


| Shaft<br>dia. | Unit number    | Nominal dimensions |        |       | Bolt<br>size | Max. load <sup>1)</sup><br>recommended |     | Bearing<br>number | Mass<br>(approx.) |
|---------------|----------------|--------------------|--------|-------|--------------|----------------------------------------|-----|-------------------|-------------------|
|               |                | mm                 | inch   |       |              | N                                      | lbf |                   |                   |
| mm            |                | A                  | B      | S     | mm           |                                        |     |                   | kg lb             |
| inch          |                |                    |        |       | inch         |                                        |     |                   |                   |
| 12            | ASPT201-10     | 31                 | 22     | 6     | M10          | 3 500                                  |     | AS201             | 1.1               |
| 1/2           | ASPT201-008-10 | 1 7/32             | 0.8661 | 0.236 | 3/8          | 770                                    |     | AS201-008         | 2.4               |
| 15            | ASPT202-10     | 31                 | 22     | 6     | M10          | 3 500                                  |     | AS202             | 1.1               |
| 9/16          | ASPT202-009-10 | 1 7/32             | 0.8661 | 0.236 | 3/8          | 770                                    |     | AS202-009         | 2.4               |
| 5/8           | ASPT202-010-10 |                    |        |       |              |                                        |     | AS202-010         |                   |
| 17            | ASPT203-10     | 31                 | 22     | 6     | M10          | 3 500                                  |     | AS203             | 1.1               |
| 1 1/16        | ASPT203-011-10 | 1 7/32             | 0.8661 | 0.236 | 3/8          | 770                                    |     | AS203-011         | 2.4               |
| 20            | ASPT204-10     | 33                 | 25     | 7     | M10          | 3 500                                  |     | AS204             | 1.1               |
| 3/4           | ASPT204-012-10 | 1 19/64            | 0.9843 | 0.276 | 3/8          | 770                                    |     | AS204-012         | 2.4               |
| 25            | ASPT205-10     | 34.5               | 27     | 7.5   | M10          | 3 500                                  |     | AS205             | 1.1               |
| 13/16         | ASPT205-013-10 |                    |        |       |              |                                        |     | AS205-013         |                   |
| 7/8           | ASPT205-014-10 | 1 23/64            | 1.0630 | 0.295 | 3/8          | 770                                    |     | AS205-014         | 2.4               |
| 15/16         | ASPT205-015-10 |                    |        |       |              |                                        |     | AS205-015         |                   |
| 1             | ASPT205-100-10 |                    |        |       |              |                                        |     | AS205-100         |                   |

Remarks: 1) The Stretcher Unit is designed to only take a horizontal radial load, in line with the adjustment direction. Axial loads or vertical radical loads can deform or break the housing.



**Pillow blocks cast housing**  
**Eccentric locking collar type**



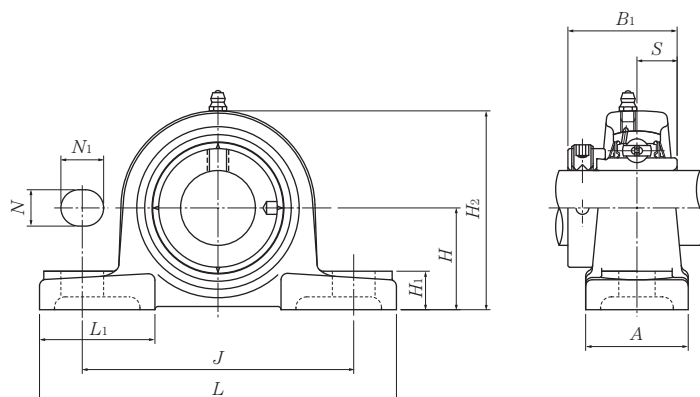
| Shaft<br>dia.                                                                       | Unit number <sup>1)</sup>                                                                                             | Nominal dimensions       |                         |                         |                      |                       |                       |                       |                        |                        |                |                | Bolt<br>size         |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------|-------------------------|----------------------|-----------------------|-----------------------|-----------------------|------------------------|------------------------|----------------|----------------|----------------------|
|                                                                                     |                                                                                                                       | H                        | L                       | J                       | A                    | N                     | N <sub>1</sub>        | H <sub>1</sub>        | H <sub>2</sub>         | L <sub>1</sub>         | B <sub>1</sub> | S              |                      |
| mm<br>inch                                                                          |                                                                                                                       |                          |                         |                         |                      |                       |                       |                       |                        |                        |                |                | mm<br>inch           |
| <b>20</b><br>$\frac{3}{4}$                                                          | <b>UEL204D1W3</b><br><b>UEL204-012D1W3</b>                                                                            | 33.3<br>$1\frac{5}{16}$  | 127<br>5                | 95<br>$3\frac{3}{4}$    | 38<br>$1\frac{1}{2}$ | 13<br>$\frac{1}{2}$   | 16<br>$\frac{5}{8}$   | 14<br>$\frac{9}{16}$  | 65<br>$2\frac{9}{16}$  | 42<br>$1\frac{21}{32}$ | 43.7<br>1.720  | 17.1<br>0.673  | M10<br>$\frac{3}{8}$ |
| <b>25</b><br>$1\frac{13}{16}$<br>$\frac{7}{8}$<br>$1\frac{15}{16}$<br><b>1</b>      | <b>UEL205D1W3</b><br><b>UEL205-013D1W3</b><br><b>UEL205-014D1W3</b><br><b>UEL205-015D1W3</b><br><b>UEL205-100D1W3</b> | 36.5<br>$1\frac{7}{16}$  | 140<br>$5\frac{1}{2}$   | 105<br>$4\frac{1}{8}$   | 38<br>$1\frac{1}{2}$ | 13<br>$\frac{1}{2}$   | 16<br>$\frac{5}{8}$   | 15<br>$\frac{19}{32}$ | 71<br>$2\frac{25}{32}$ | 42<br>$1\frac{21}{32}$ | 44.4<br>1.748  | 17.45<br>0.687 | M10<br>$\frac{3}{8}$ |
| <b>30</b><br>$1\frac{1}{16}$<br>$1\frac{1}{8}$<br>$1\frac{3}{16}$<br>$1\frac{1}{4}$ | <b>UEL206D1W3</b><br><b>UEL206-101D1W3</b><br><b>UEL206-102D1W3</b><br><b>UEL206-103D1W3</b><br><b>UEL206-104D1W3</b> | 42.9<br>$1\frac{11}{16}$ | 165<br>$6\frac{1}{2}$   | 121<br>$4\frac{3}{4}$   | 48<br>$1\frac{7}{8}$ | 17<br>$\frac{21}{32}$ | 20<br>$\frac{25}{32}$ | 17<br>$\frac{21}{32}$ | 83<br>$3\frac{9}{32}$  | 54<br>$2\frac{1}{8}$   | 48.4<br>1.906  | 18.25<br>0.719 | M14<br>$\frac{1}{2}$ |
| <b>35</b><br>$1\frac{1}{4}$<br>$1\frac{5}{16}$<br>$1\frac{3}{8}$<br>$1\frac{7}{16}$ | <b>UEL207D1W3</b><br><b>UEL207-104D1W3</b><br><b>UEL207-105D1W3</b><br><b>UEL207-106D1W3</b><br><b>UEL207-107D1W3</b> | 47.6<br>$1\frac{7}{8}$   | 167<br>$6\frac{9}{16}$  | 127<br>5                | 48<br>$1\frac{7}{8}$ | 17<br>$\frac{21}{32}$ | 20<br>$\frac{25}{32}$ | 18<br>$\frac{23}{32}$ | 93<br>$3\frac{21}{32}$ | 54<br>$2\frac{1}{8}$   | 51.1<br>2.012  | 18.8<br>0.740  | M14<br>$\frac{1}{2}$ |
| <b>40</b><br>$1\frac{1}{2}$<br>$1\frac{9}{16}$                                      | <b>UEL208D1W3</b><br><b>UEL208-108D1W3</b><br><b>UEL208-109D1W3</b>                                                   | 49.2<br>$1\frac{15}{16}$ | 184<br>$7\frac{1}{4}$   | 137<br>$5\frac{13}{32}$ | 54<br>$2\frac{1}{8}$ | 17<br>$\frac{21}{32}$ | 20<br>$\frac{25}{32}$ | 18<br>$\frac{23}{32}$ | 98<br>$3\frac{27}{32}$ | 52<br>$2\frac{1}{16}$  | 56.3<br>2.217  | 21.4<br>0.843  | M14<br>$\frac{1}{2}$ |
| <b>45</b><br>$1\frac{5}{8}$<br>$1\frac{11}{16}$<br>$1\frac{3}{4}$                   | <b>UEL209D1W3</b><br><b>UEL209-110D1W3</b><br><b>UEL209-111D1W3</b><br><b>UEL209-112D1W3</b>                          | 54<br>$2\frac{1}{8}$     | 190<br>$7\frac{15}{32}$ | 146<br>$5\frac{3}{4}$   | 54<br>$2\frac{1}{8}$ | 17<br>$\frac{21}{32}$ | 20<br>$\frac{25}{32}$ | 20<br>$\frac{25}{32}$ | 106<br>$4\frac{3}{16}$ | 60<br>$2\frac{3}{8}$   | 56.3<br>2.217  | 21.4<br>0.843  | M14<br>$\frac{1}{2}$ |
| <b>50</b><br>$1\frac{13}{16}$<br>$1\frac{7}{8}$<br>$1\frac{15}{16}$<br><b>2</b>     | <b>UEL210D1W3</b><br><b>UEL210-113D1W3</b><br><b>UEL210-114D1W3</b><br><b>UEL210-115D1W3</b><br><b>UEL210-200D1W3</b> | 57.2<br>$2\frac{1}{4}$   | 206<br>$8\frac{1}{8}$   | 159<br>$6\frac{1}{4}$   | 60<br>$2\frac{3}{8}$ | 20<br>$\frac{25}{32}$ | 23<br>$\frac{29}{32}$ | 21<br>$\frac{13}{16}$ | 114<br>$4\frac{1}{2}$  | 65<br>$2\frac{9}{16}$  | 62.7<br>2.469  | 24.6<br>0.969  | M16<br>$\frac{5}{8}$ |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

| Bearing number | Housing number <sup>1)</sup> | Mass (approx.) |    |
|----------------|------------------------------|----------------|----|
|                |                              | kg             | lb |
| UEL204D1W3     | P204D1                       | 0.8            |    |
| UEL204-012D1W3 | P204D1                       | 1.8            |    |
| UEL205D1W3     | P205D1                       | 0.9            |    |
| UEL205-013D1W3 | P205D1                       |                |    |
| UEL205-014D1W3 | P205D1                       | 2.0            |    |
| UEL205-015D1W3 | P205D1                       |                |    |
| UEL205-100D1W3 | P205D1                       |                |    |
| UEL206D1W3     | P206D1                       | 1.5            |    |
| UEL206-101D1W3 | P206D1                       |                |    |
| UEL206-102D1W3 | P206D1                       | 3.3            |    |
| UEL206-103D1W3 | P206D1                       |                |    |
| UEL206-104D1W3 | P206D1                       |                |    |
| UEL207D1W3     | P207D1                       | 1.8            |    |
| UEL207-104D1W3 | P207D1                       |                |    |
| UEL207-105D1W3 | P207D1                       | 4.0            |    |
| UEL207-106D1W3 | P207D1                       |                |    |
| UEL207-107D1W3 | P207D1                       |                |    |
| UEL208D1W3     | P208D1                       | 2.1            |    |
| UEL208-108D1W3 | P208D1                       | 4.6            |    |
| UEL208-109D1W3 | P208D1                       |                |    |
| UEL209D1W3     | P209D1                       | 2.3            |    |
| UEL209-110D1W3 | P209D1                       |                |    |
| UEL209-111D1W3 | P209D1                       | 5.1            |    |
| UEL209-112D1W3 | P209D1                       |                |    |
| UEL210D1W3     | P210D1                       | 2.9            |    |
| UEL210-113D1W3 | P210D1                       |                |    |
| UEL210-114D1W3 | P210D1                       | 6.4            |    |
| UEL210-115D1W3 | P210D1                       |                |    |
| UEL210-200D1W3 | P210D1                       |                |    |

**Pillow blocks cast housing  
Eccentric locking collar type**



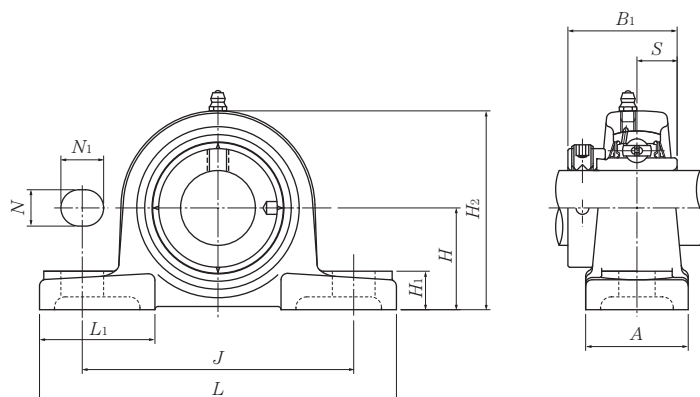
| Shaft<br>dia.  | Unit number <sup>1)</sup> | Nominal dimensions |          |         |         |       |                |                |                |                |                |       | Bolt<br>size |
|----------------|---------------------------|--------------------|----------|---------|---------|-------|----------------|----------------|----------------|----------------|----------------|-------|--------------|
|                |                           | H                  | L        | J       | A       | N     | N <sub>1</sub> | H <sub>1</sub> | H <sub>2</sub> | L <sub>1</sub> | B <sub>1</sub> | S     |              |
| mm<br>inch     |                           |                    |          |         |         | mm    |                | inch           |                |                |                |       | mm<br>inch   |
| <b>55</b>      | <b>UEL211D1W3</b>         | 63.5               | 219      | 171     | 60      | 20    | 23             | 23             | 126            | 65             | 71.4           | 27.75 | M16          |
| <b>2</b>       | <b>UEL211-200D1W3</b>     |                    |          |         |         |       |                |                |                |                |                |       |              |
| <b>2 1/16</b>  | <b>UEL211-201D1W3</b>     | 2 1/2              | 8 5/8    | 6 23/32 | 2 3/8   | 25/32 | 29/32          | 29/32          | 4 31/32        | 2 9/16         | 2.811          | 1.093 | 5/8          |
| <b>2 1/8</b>   | <b>UEL211-202D1W3</b>     |                    |          |         |         |       |                |                |                |                |                |       |              |
| <b>2 3/16</b>  | <b>UEL211-203D1W3</b>     |                    |          |         |         |       |                |                |                |                |                |       |              |
| <b>60</b>      | <b>UEL212D1W3</b>         | 69.8               | 241      | 184     | 70      | 20    | 23             | 25             | 138            | 70             | 77.8           | 30.95 | M16          |
| <b>2 1/4</b>   | <b>UEL212-204D1W3</b>     |                    |          |         |         |       |                |                |                |                |                |       |              |
| <b>2 5/16</b>  | <b>UEL212-205D1W3</b>     | 2 3/4              | 9 1/2    | 7 1/4   | 2 3/4   | 25/32 | 29/32          | 31/32          | 5 7/16         | 2 3/4          | 3.063          | 1.219 | 5/8          |
| <b>2 3/8</b>   | <b>UEL212-206D1W3</b>     |                    |          |         |         |       |                |                |                |                |                |       |              |
| <b>2 7/16</b>  | <b>UEL212-207D1W3</b>     |                    |          |         |         |       |                |                |                |                |                |       |              |
| <b>65</b>      | <b>UEL213D1W3</b>         | 76.2               | 265      | 203     | 70      | 25    | 28             | 27             | 151            | 77             | 85.7           | 34.15 | M20          |
| <b>2 1/2</b>   | <b>UEL213-208D1W3</b>     | 3                  | 10 7/16  | 8       | 2 3/4   | 31/32 | 1 3/32         | 1 1/16         | 5 15/16        | 3 1/32         | 3.374          | 1.344 | 3/4          |
| <b>2 9/16</b>  | <b>UEL213-209D1W3</b>     |                    |          |         |         |       |                |                |                |                |                |       |              |
| <b>70</b>      | <b>UEL214D1W3</b>         | 79.4               | 266      | 210     | 72      | 25    | 28             | 27             | 157            | 77             | 85.7           | 34.15 | M20          |
| <b>2 5/8</b>   | <b>UEL214-210D1W3</b>     |                    |          |         |         |       |                |                |                |                |                |       |              |
| <b>2 11/16</b> | <b>UEL214-211D1W3</b>     | 3 1/8              | 10 15/32 | 8 9/32  | 2 27/32 | 31/32 | 1 3/32         | 1 1/16         | 6 3/16         | 3 1/32         | 3.374          | 1.344 | 3/4          |
| <b>2 3/4</b>   | <b>UEL214-212D1W3</b>     |                    |          |         |         |       |                |                |                |                |                |       |              |
| <b>75</b>      | <b>UEL215D1W3</b>         | 82.6               | 275      | 217     | 74      | 25    | 28             | 28             | 163            | 80             | 92             | 37.3  | M20          |
| <b>2 13/16</b> | <b>UEL215-213D1W3</b>     |                    |          |         |         |       |                |                |                |                |                |       |              |
| <b>2 7/8</b>   | <b>UEL215-214D1W3</b>     | 3 1/4              | 10 13/16 | 8 17/32 | 2 29/32 | 31/32 | 1 3/32         | 1 3/32         | 6 13/32        | 3 5/32         | 3.622          | 1.469 | 3/4          |
| <b>2 15/16</b> | <b>UEL215-215D1W3</b>     |                    |          |         |         |       |                |                |                |                |                |       |              |
| <b>3</b>       | <b>UEL215-300D1W3</b>     |                    |          |         |         |       |                |                |                |                |                |       |              |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

| Bearing number | Housing number <sup>1)</sup> | Mass (approx.) |    |
|----------------|------------------------------|----------------|----|
|                |                              | kg             | lb |
| UEL211D1W3     | P211D1                       | 3.7            |    |
| UEL211-200D1W3 | P211D1                       |                |    |
| UEL211-201D1W3 | P211D1                       | 8.2            |    |
| UEL211-202D1W3 | P211D1                       |                |    |
| UEL211-203D1W3 | P211D1                       |                |    |
| UEL212D1W3     | P212D1                       | 5.0            |    |
| UEL212-204D1W3 | P212D1                       |                |    |
| UEL212-205D1W3 | P212D1                       | 11             |    |
| UEL212-206D1W3 | P212D1                       |                |    |
| UEL212-207D1W3 | P212D1                       |                |    |
| UEL213D1W3     | P213D1                       | 6.2            |    |
| UEL213-208D1W3 | P213D1                       | 14             |    |
| UEL213-209D1W3 | P213D1                       |                |    |
| UEL214D1W3     | P214D1                       | 6.9            |    |
| UEL214-210D1W3 | P214D1                       |                |    |
| UEL214-211D1W3 | P214D1                       | 15             |    |
| UEL214-212D1W3 | P214D1                       |                |    |
| UEL215D1W3     | P215D1                       | 7.6            |    |
| UEL215-213D1W3 | P215D1                       |                |    |
| UEL215-214D1W3 | P215D1                       | 17             |    |
| UEL215-215D1W3 | P215D1                       |                |    |
| UEL215-300D1W3 | P215D1                       |                |    |

**Pillow blocks cast housing  
Eccentric locking collar type**



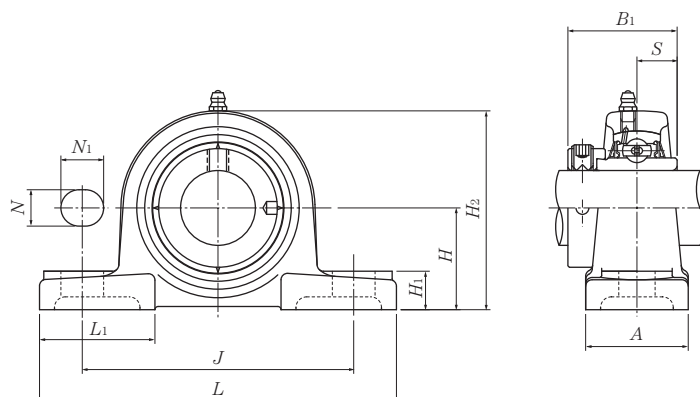
| Shaft<br>dia.   | Unit number <sup>1)</sup> | Nominal dimensions |                   |                  |                  |                 |                 |                 |                  |                  |                |       | Bolt<br>size  |
|-----------------|---------------------------|--------------------|-------------------|------------------|------------------|-----------------|-----------------|-----------------|------------------|------------------|----------------|-------|---------------|
|                 |                           | H                  | L                 | J                | A                | N               | N <sub>1</sub>  | H <sub>1</sub>  | H <sub>2</sub>   | L <sub>1</sub>   | B <sub>1</sub> | S     |               |
| mm<br>inch      |                           |                    |                   |                  |                  |                 |                 |                 |                  |                  |                |       | mm<br>inch    |
| <b>25</b>       | <b>UELP305D1W3</b>        | 45                 | 175               | 132              | 45               | 17              | 20              | 15              | 85               | 54               | 46.8           | 16.7  | M14           |
| $\frac{13}{16}$ | <b>UELP305-013D1W3</b>    |                    |                   |                  |                  |                 |                 |                 |                  |                  |                |       |               |
| $\frac{7}{8}$   | <b>UELP305-014D1W3</b>    | $1\frac{49}{64}$   | $6\frac{7}{8}$    | $5\frac{3}{16}$  | $1\frac{25}{32}$ | $\frac{21}{32}$ | $\frac{25}{32}$ | $\frac{19}{32}$ | $3\frac{11}{32}$ | $2\frac{1}{8}$   | 1.843          | 0.657 | $\frac{1}{2}$ |
| $\frac{15}{16}$ | <b>UELP305-015D1W3</b>    |                    |                   |                  |                  |                 |                 |                 |                  |                  |                |       |               |
| <b>1</b>        | <b>UELP305-100D1W3</b>    |                    |                   |                  |                  |                 |                 |                 |                  |                  |                |       |               |
| <b>30</b>       | <b>UELP306D1W3</b>        | 50                 | 180               | 140              | 50               | 17              | 20              | 18              | 95               | 54               | 50             | 17.5  | M14           |
| $\frac{1}{16}$  | <b>UELP306-101D1W3</b>    |                    |                   |                  |                  |                 |                 |                 |                  |                  |                |       |               |
| $\frac{1}{8}$   | <b>UELP306-102D1W3</b>    | $1\frac{31}{32}$   | $7\frac{3}{32}$   | $5\frac{1}{2}$   | $1\frac{31}{32}$ | $\frac{21}{32}$ | $\frac{25}{32}$ | $\frac{23}{32}$ | $3\frac{3}{4}$   | $2\frac{1}{8}$   | 1.969          | 0.689 | $\frac{1}{2}$ |
| $\frac{3}{16}$  | <b>UELP306-103D1W3</b>    |                    |                   |                  |                  |                 |                 |                 |                  |                  |                |       |               |
| <b>35</b>       | <b>UELP307D1W3</b>        | 56                 | 210               | 160              | 56               | 17              | 25              | 20              | 106              | 60               | 51.6           | 18.3  | M14           |
| $\frac{1}{4}$   | <b>UELP307-104D1W3</b>    |                    |                   |                  |                  |                 |                 |                 |                  |                  |                |       |               |
| $\frac{5}{16}$  | <b>UELP307-105D1W3</b>    | $2\frac{13}{64}$   | $8\frac{9}{32}$   | $6\frac{5}{16}$  | $2\frac{7}{32}$  | $\frac{21}{32}$ | $\frac{31}{32}$ | $\frac{25}{32}$ | $4\frac{3}{16}$  | $2\frac{3}{8}$   | 2.031          | 0.720 | $\frac{1}{2}$ |
| $\frac{3}{8}$   | <b>UELP307-106D1W3</b>    |                    |                   |                  |                  |                 |                 |                 |                  |                  |                |       |               |
| $\frac{7}{16}$  | <b>UELP307-107D1W3</b>    |                    |                   |                  |                  |                 |                 |                 |                  |                  |                |       |               |
| <b>40</b>       | <b>UELP308D1W3</b>        | 60                 | 220               | 170              | 60               | 17              | 27              | 22              | 116              | 60               | 57.1           | 19.8  | M14           |
| $\frac{1}{2}$   | <b>UELP308-108D1W3</b>    | $2\frac{23}{64}$   | $8\frac{21}{32}$  | $6\frac{11}{16}$ | $2\frac{3}{8}$   | $\frac{21}{32}$ | $1\frac{1}{16}$ | $\frac{7}{8}$   | $4\frac{9}{16}$  | $2\frac{3}{8}$   | 2.248          | 0.780 | $\frac{1}{2}$ |
| $\frac{9}{16}$  | <b>UELP308-109D1W3</b>    |                    |                   |                  |                  |                 |                 |                 |                  |                  |                |       |               |
| <b>45</b>       | <b>UELP309D1W3</b>        | 67                 | 245               | 190              | 67               | 20              | 30              | 24              | 129              | 65               | 58.7           | 19.8  | M16           |
| $\frac{5}{8}$   | <b>UELP309-110D1W3</b>    |                    |                   |                  |                  |                 |                 |                 |                  |                  |                |       |               |
| $\frac{11}{16}$ | <b>UELP309-111D1W3</b>    | $2\frac{41}{64}$   | $9\frac{21}{32}$  | $7\frac{15}{32}$ | $2\frac{5}{8}$   | $\frac{25}{32}$ | $1\frac{3}{16}$ | $\frac{15}{16}$ | $5\frac{3}{32}$  | $2\frac{9}{16}$  | 2.311          | 0.780 | $\frac{5}{8}$ |
| $\frac{3}{4}$   | <b>UELP309-112D1W3</b>    |                    |                   |                  |                  |                 |                 |                 |                  |                  |                |       |               |
| <b>50</b>       | <b>UELP310D1W3</b>        | 75                 | 275               | 212              | 75               | 20              | 35              | 27              | 143              | 75               | 66.6           | 24.6  | M16           |
| $\frac{13}{16}$ | <b>UELP310-113D1W3</b>    |                    |                   |                  |                  |                 |                 |                 |                  |                  |                |       |               |
| $\frac{1}{8}$   | <b>UELP310-114D1W3</b>    | $2\frac{61}{64}$   | $10\frac{13}{16}$ | $8\frac{11}{32}$ | $2\frac{15}{16}$ | $\frac{25}{32}$ | $1\frac{3}{8}$  | $1\frac{1}{16}$ | $5\frac{5}{8}$   | $2\frac{15}{16}$ | 2.622          | 0.969 | $\frac{5}{8}$ |
| $\frac{15}{16}$ | <b>UELP310-115D1W3</b>    |                    |                   |                  |                  |                 |                 |                 |                  |                  |                |       |               |
| <b>55</b>       | <b>UELP311D1W3</b>        | 80                 | 310               | 236              | 80               | 20              | 38              | 30              | 154              | 85               | 73             | 27.8  | M16           |
| <b>2</b>        | <b>UELP311-200D1W3</b>    |                    |                   |                  |                  |                 |                 |                 |                  |                  |                |       |               |
| $\frac{21}{16}$ | <b>UELP311-201D1W3</b>    | $3\frac{5}{32}$    | $12\frac{7}{32}$  | $9\frac{9}{32}$  | $3\frac{5}{32}$  | $\frac{25}{32}$ | $1\frac{1}{2}$  | $1\frac{3}{16}$ | $6\frac{1}{16}$  | $3\frac{11}{32}$ | 2.874          | 1.094 | $\frac{5}{8}$ |
| $\frac{21}{8}$  | <b>UELP311-202D1W3</b>    |                    |                   |                  |                  |                 |                 |                 |                  |                  |                |       |               |
| $\frac{23}{16}$ | <b>UELP311-203D1W3</b>    |                    |                   |                  |                  |                 |                 |                 |                  |                  |                |       |               |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

| Bearing number | Housing number <sup>1)</sup> | Mass (approx.) |    |
|----------------|------------------------------|----------------|----|
|                |                              | kg             | lb |
| UEL305D1W3     | P305D1                       | 1.5            |    |
| UEL305-013D1W3 | P305D1                       |                |    |
| UEL305-014D1W3 | P305D1                       | 3.3            |    |
| UEL305-015D1W3 | P305D1                       |                |    |
| UEL305-100D1W3 | P305D1                       |                |    |
| UEL306D1W3     | P306D1                       | 1.9            |    |
| UEL306-101D1W3 | P306D1                       |                |    |
| UEL306-102D1W3 | P306D1                       | 4.2            |    |
| UEL306-103D1W3 | P306D1                       |                |    |
| UEL307D1W3     | P307D1                       | 2.6            |    |
| UEL307-104D1W3 | P307D1                       |                |    |
| UEL307-105D1W3 | P307D1                       | 5.7            |    |
| UEL307-106D1W3 | P307D1                       |                |    |
| UEL307-107D1W3 | P307D1                       |                |    |
| UEL308D1W3     | P308D1                       | 3.2            |    |
| UEL308-108D1W3 | P308D1                       | 7.1            |    |
| UEL308-109D1W3 | P308D1                       |                |    |
| UEL309D1W3     | P309D1                       | 4.2            |    |
| UEL309-110D1W3 | P309D1                       |                |    |
| UEL309-111D1W3 | P309D1                       | 9.3            |    |
| UEL309-112D1W3 | P309D1                       |                |    |
| UEL310D1W3     | P310D1                       | 5.8            |    |
| UEL310-113D1W3 | P310D1                       |                |    |
| UEL310-114D1W3 | P310D1                       | 13             |    |
| UEL310-115D1W3 | P310D1                       |                |    |
| UEL311D1W3     | P311D1                       | 7.6            |    |
| UEL311-200D1W3 | P311D1                       |                |    |
| UEL311-201D1W3 | P311D1                       | 17             |    |
| UEL311-202D1W3 | P311D1                       |                |    |
| UEL311-203D1W3 | P311D1                       |                |    |

**Pillow blocks cast housing  
Eccentric locking collar type**



| Shaft<br>dia.  | Unit number <sup>1)</sup> | Nominal dimensions |          |          |         |        |                |                |                |                |                |       | Bolt<br>size |
|----------------|---------------------------|--------------------|----------|----------|---------|--------|----------------|----------------|----------------|----------------|----------------|-------|--------------|
|                |                           | H                  | L        | J        | A       | N      | N <sub>1</sub> | H <sub>1</sub> | H <sub>2</sub> | L <sub>1</sub> | B <sub>1</sub> | S     |              |
| mm<br>inch     |                           |                    |          |          |         |        |                |                |                |                |                |       | mm<br>inch   |
| <b>60</b>      | <b>UELP312D1W3</b>        | 85                 | 330      | 250      | 85      | 25     | 38             | 32             | 165            | 95             | 79.4           | 30.95 | M20          |
| <b>2 1/4</b>   | <b>UELP312-204D1W3</b>    |                    |          |          |         |        |                |                |                |                |                |       |              |
| <b>2 5/16</b>  | <b>UELP312-205D1W3</b>    | 3 11/32            | 13       | 9 27/32  | 3 11/32 | 3 1/32 | 1 1/2          | 1 1/4          | 6 1/2          | 3 3/4          | 3.126          | 1.219 | 3/4          |
| <b>2 3/8</b>   | <b>UELP312-206D1W3</b>    |                    |          |          |         |        |                |                |                |                |                |       |              |
| <b>2 7/16</b>  | <b>UELP312-207D1W3</b>    |                    |          |          |         |        |                |                |                |                |                |       |              |
| <b>65</b>      | <b>UELP313D1W3</b>        | 90                 | 340      | 260      | 90      | 25     | 38             | 33             | 176            | 105            | 85.7           | 32.55 | M20          |
| <b>2 1/2</b>   | <b>UELP313-208D1W3</b>    | 3 35/64            | 13 3/8   | 10 1/4   | 3 17/32 | 3 1/32 | 1 1/2          | 1 5/16         | 6 15/16        | 4 1/8          | 3.374          | 1.281 | 3/4          |
| <b>2 9/16</b>  | <b>UELP313-209D1W3</b>    |                    |          |          |         |        |                |                |                |                |                |       |              |
| <b>70</b>      | <b>UELP314D1W3</b>        | 95                 | 360      | 280      | 90      | 27     | 40             | 35             | 187            | 105            | 92.1           | 34.15 | M22          |
| <b>2 5/8</b>   | <b>UELP314-210D1W3</b>    |                    |          |          |         |        |                |                |                |                |                |       |              |
| <b>2 11/16</b> | <b>UELP314-211D1W3</b>    | 3 47/64            | 14 3/16  | 11 1/32  | 3 17/32 | 1 1/16 | 1 9/16         | 1 3/8          | 7 3/8          | 4 1/8          | 3.626          | 1.344 | 7/8          |
| <b>2 3/4</b>   | <b>UELP314-212D1W3</b>    |                    |          |          |         |        |                |                |                |                |                |       |              |
| <b>75</b>      | <b>UELP315D1W3</b>        | 100                | 380      | 290      | 100     | 27     | 40             | 35             | 198            | 110            | 100            | 37.3  | M22          |
| <b>2 13/16</b> | <b>UELP315-213D1W3</b>    |                    |          |          |         |        |                |                |                |                |                |       |              |
| <b>2 7/8</b>   | <b>UELP315-214D1W3</b>    | 3 15/16            | 14 31/32 | 11 13/32 | 3 15/16 | 1 1/16 | 1 9/16         | 1 3/8          | 7 25/32        | 4 11/32        | 3.937          | 1.469 | 7/8          |
| <b>2 15/16</b> | <b>UELP315-215D1W3</b>    |                    |          |          |         |        |                |                |                |                |                |       |              |
| <b>3</b>       | <b>UELP315-300D1W3</b>    |                    |          |          |         |        |                |                |                |                |                |       |              |
| <b>80</b>      | <b>UELP316D1W3</b>        | 106                | 400      | 300      | 110     | 27     | 40             | 40             | 210            | 110            | 106.4          | 40.5  | M22          |
| <b>3 1/16</b>  | <b>UELP316-301D1W3</b>    |                    |          |          |         |        |                |                |                |                |                |       |              |
| <b>3 1/8</b>   | <b>UELP316-302D1W3</b>    | 4 11/64            | 15 3/4   | 11 13/16 | 4 11/32 | 1 1/16 | 1 9/16         | 1 9/16         | 8 9/32         | 4 11/32        | 4.189          | 1.594 | 7/8          |
| <b>3 3/16</b>  | <b>UELP316-303D1W3</b>    |                    |          |          |         |        |                |                |                |                |                |       |              |
| <b>85</b>      | <b>UELP317D1W3</b>        | 112                | 420      | 320      | 110     | 33     | 45             | 40             | 220            | 120            | 109.5          | 42.05 | M27          |
| <b>3 1/4</b>   | <b>UELP317-304D1W3</b>    |                    |          |          |         |        |                |                |                |                |                |       |              |
| <b>3 5/16</b>  | <b>UELP317-305D1W3</b>    | 4 13/32            | 16 17/32 | 12 19/32 | 4 11/32 | 1 5/16 | 1 25/32        | 1 9/16         | 8 21/32        | 4 23/32        | 4.311          | 1.656 | 1            |
| <b>3 7/16</b>  | <b>UELP317-307D1W3</b>    |                    |          |          |         |        |                |                |                |                |                |       |              |
| <b>90</b>      | <b>UELP318D1W3</b>        | 118                | 430      | 330      | 110     | 33     | 45             | 45             | 235            | 120            | 115.9          | 43.65 | M27          |
| <b>3 7/16</b>  | <b>UELP318-307D1W3</b>    | 4 41/64            | 16 15/16 | 13       | 4 11/32 | 1 5/16 | 1 25/32        | 1 25/32        | 9 1/4          | 4 23/32        | 4.563          | 1.719 | 1            |
| <b>3 1/2</b>   | <b>UELP318-308D1W3</b>    |                    |          |          |         |        |                |                |                |                |                |       |              |

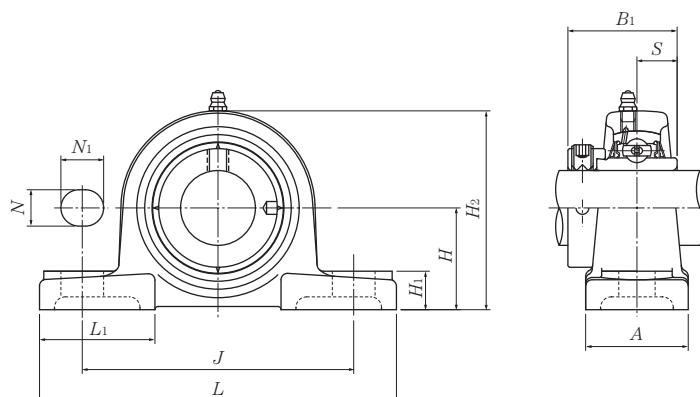
Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

| Bearing number | Housing number <sup>1)</sup> | Mass (approx.) |    |
|----------------|------------------------------|----------------|----|
|                |                              | kg             | lb |
| UEL312D1W3     | P312D1                       | 9.7            |    |
| UEL312-204D1W3 | P312D1                       |                |    |
| UEL312-205D1W3 | P312D1                       | 21             |    |
| UEL312-206D1W3 | P312D1                       |                |    |
| UEL312-207D1W3 | P312D1                       |                |    |
| UEL313D1W3     | P313D1                       | 11             |    |
| UEL313-208D1W3 | P313D1                       | 24             |    |
| UEL313-209D1W3 | P313D1                       |                |    |
| UEL314D1W3     | P314D1                       | 12             |    |
| UEL314-210D1W3 | P314D1                       |                |    |
| UEL314-211D1W3 | P314D1                       | 26             |    |
| UEL314-212D1W3 | P314D1                       |                |    |
| UEL315D1W3     | P315D1                       | 15             |    |
| UEL315-213D1W3 | P315D1                       |                |    |
| UEL315-214D1W3 | P315D1                       | 33             |    |
| UEL315-215D1W3 | P315D1                       |                |    |
| UEL315-300D1W3 | P315D1                       |                |    |
| UEL316D1W3     | P316D1                       | 18             |    |
| UEL316-301D1W3 | P316D1                       |                |    |
| UEL316-302D1W3 | P316D1                       | 40             |    |
| UEL316-303D1W3 | P316D1                       |                |    |
| UEL317D1W3     | P317D1                       | 21             |    |
| UEL317-304D1W3 | P317D1                       |                |    |
| UEL317-305D1W3 | P317D1                       | 46             |    |
| UEL317-307D1W3 | P317D1                       |                |    |
| UEL318D1W3     | P318D1                       | 23             |    |
| UEL318-307D1W3 | P318D1                       | 51             |    |
| UEL318-308D1W3 | P318D1                       |                |    |



**Pillow blocks cast housing  
Eccentric locking collar type**



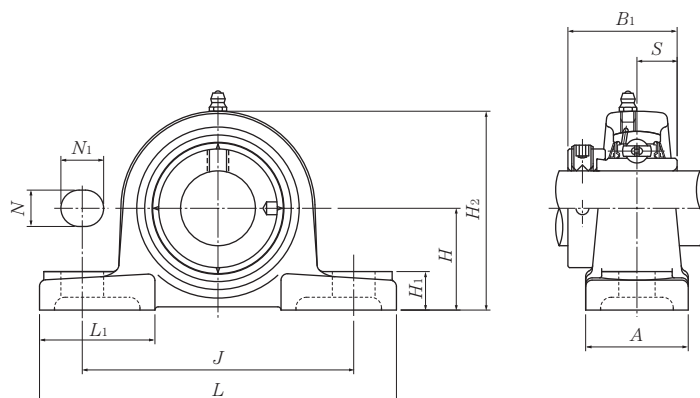
| Shaft<br>dia.                       | Unit number <sup>1)</sup> | Nominal dimensions              |                                 |                                  |                                 |                                 |                                 |                                 |                                  |                                 |                |       | Bolt<br>size                  |
|-------------------------------------|---------------------------|---------------------------------|---------------------------------|----------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|---------------------------------|----------------|-------|-------------------------------|
|                                     |                           | H                               | L                               | J                                | A                               | N                               | N <sub>1</sub>                  | H <sub>1</sub>                  | H <sub>2</sub>                   | L <sub>1</sub>                  | B <sub>1</sub> | S     |                               |
| mm<br>inch                          |                           |                                 |                                 |                                  |                                 | mm                              |                                 | inch                            |                                  |                                 |                |       | mm<br>inch                    |
| <b>95</b>                           | <b>UERP319D1W3</b>        | 125                             | 470                             | 360                              | 120                             | 36                              | 50                              | 45                              | 250                              | 125                             | 122.3          | 38.9  | M30                           |
| <b>3<sup>5</sup>/<sub>8</sub></b>   | <b>UERP319-310D1W3</b>    |                                 |                                 |                                  |                                 |                                 |                                 |                                 |                                  |                                 |                |       |                               |
| <b>3<sup>11</sup>/<sub>16</sub></b> | <b>UERP319-311D1W3</b>    | 4 <sup>59</sup> / <sub>64</sub> | 18 <sup>1</sup> / <sub>2</sub>  | 14 <sup>3</sup> / <sub>16</sub>  | 4 <sup>23</sup> / <sub>32</sub> | 1 <sup>13</sup> / <sub>32</sub> | 1 <sup>31</sup> / <sub>32</sub> | 1 <sup>25</sup> / <sub>32</sub> | 9 <sup>27</sup> / <sub>32</sub>  | 4 <sup>29</sup> / <sub>32</sub> | 4.815          | 1.531 | 1 <sup>1</sup> / <sub>8</sub> |
| <b>3<sup>3</sup>/<sub>4</sub></b>   | <b>UERP319-312D1W3</b>    |                                 |                                 |                                  |                                 |                                 |                                 |                                 |                                  |                                 |                |       |                               |
| <b>100</b>                          | <b>UERP320D1W3</b>        | 140                             | 490                             | 380                              | 120                             | 36                              | 50                              | 50                              | 275                              | 130                             | 128.6          | 50    | M30                           |
| <b>3<sup>13</sup>/<sub>16</sub></b> | <b>UERP320-313D1W3</b>    |                                 |                                 |                                  |                                 |                                 |                                 |                                 |                                  |                                 |                |       |                               |
| <b>3<sup>7</sup>/<sub>8</sub></b>   | <b>UERP320-314D1W3</b>    | 5 <sup>33</sup> / <sub>64</sub> | 19 <sup>9</sup> / <sub>32</sub> | 14 <sup>31</sup> / <sub>32</sub> | 4 <sup>23</sup> / <sub>32</sub> | 1 <sup>13</sup> / <sub>32</sub> | 1 <sup>31</sup> / <sub>32</sub> | 1 <sup>31</sup> / <sub>32</sub> | 10 <sup>13</sup> / <sub>16</sub> | 5 <sup>1</sup> / <sub>8</sub>   | 5.063          | 1.969 | 1 <sup>1</sup> / <sub>8</sub> |
| <b>3<sup>15</sup>/<sub>16</sub></b> | <b>UERP320-315D1W3</b>    |                                 |                                 |                                  |                                 |                                 |                                 |                                 |                                  |                                 |                |       |                               |
| <b>4</b>                            | <b>UERP320-400D1W3</b>    |                                 |                                 |                                  |                                 |                                 |                                 |                                 |                                  |                                 |                |       |                               |
| <b>105</b>                          | <b>UERP321D1W3</b>        | 140                             | 490                             | 380                              | 120                             | 36                              | 50                              | 50                              | 280                              | 130                             | 139.7          | 48.4  | M30                           |
| <b>110</b>                          | <b>UERP322D1W3</b>        | 150                             | 520                             | 400                              | 140                             | 40                              | 55                              | 55                              | 300                              | 135                             | 141.3          | 49.2  | M33                           |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

| Bearing number | Housing number <sup>1)</sup> | Mass (approx.) |    |
|----------------|------------------------------|----------------|----|
|                |                              | kg             | lb |
| UEL319D1W3     | P319D1                       | 28             |    |
| UEL319-310D1W3 | P319D1                       |                |    |
| UEL319-311D1W3 | P319D1                       | 66             |    |
| UEL319-312D1W3 | P319D1                       |                |    |
| UEL320D1W3     | P320D1                       | 35             |    |
| UEL320-313D1W3 | P320D1                       |                |    |
| UEL320-314D1W3 | P320D1                       | 82             |    |
| UEL320-315D1W3 | P320D1                       |                |    |
| UEL320-400D1W3 | P320D1                       |                |    |
| UEL321D1W3     | P321D1                       | 37             |    |
| UEL322D1W3     | P322D1                       | 46             |    |

**Pillow blocks cast housing low center height**  
**Eccentric locking collar type**



| Shaft<br>dia.                            | Unit number <sup>1)2)3)</sup>                                                                | Nominal dimensions |                |              |             |             |                |                |                |                |                |                | Bolt<br>size |
|------------------------------------------|----------------------------------------------------------------------------------------------|--------------------|----------------|--------------|-------------|-------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------|
|                                          |                                                                                              | H                  | L              | J            | A           | N           | N <sub>1</sub> | H <sub>1</sub> | H <sub>2</sub> | L <sub>1</sub> | B <sub>1</sub> | S              |              |
| mm<br>inch                               |                                                                                              |                    |                |              |             | mm          | inch           |                |                |                |                |                | mm<br>inch   |
| 20<br>3/4                                | UELPL204D1W3<br>UELPL204-012D1W3                                                             | 31.75<br>1 1/4     | 127<br>5       | 95<br>3 3/4  | 38<br>1 1/2 | 13<br>1/2   | 16<br>5/8      | 14<br>9/16     | 64<br>2 17/32  | 42<br>1 21/32  | 43.7<br>1.720  | 17.1<br>0.673  | M10<br>3/8   |
| 25<br>1 13/16<br>7/8<br>1 15/16<br>1     | UELPL205D1W3<br>UELPL205-013D1W3<br>UELPL205-014D1W3<br>UELPL205-015D1W3<br>UELPL205-100D1W3 | 33.34<br>1 5/16    | 140<br>5 1/2   | 105<br>4 1/8 | 38<br>1 1/2 | 13<br>1/2   | 16<br>5/8      | 15<br>19/32    | 68<br>2 11/16  | 42<br>1 21/32  | 44.4<br>1.748  | 17.45<br>0.687 | M10<br>3/8   |
| 30<br>1 1/16<br>1 1/8<br>1 3/16<br>1 1/4 | UELPL206D1W3<br>UELPL206-101D1W3<br>UELPL206-102D1W3<br>UELPL206-103D1W3<br>UELPL206-104D1W3 | 39.69<br>1 9/16    | 165<br>6 1/2   | 121<br>4 3/4 | 48<br>1 7/8 | 17<br>21/32 | 20<br>25/32    | 17<br>21/32    | 80<br>3 5/32   | 54<br>2 1/8    | 48.4<br>1.906  | 18.25<br>0.719 | M14<br>1/2   |
| 35<br>1 1/4<br>1 5/16<br>1 3/8<br>1 7/16 | UELPL207D1W3<br>UELPL207-104D1W3<br>UELPL207-105D1W3<br>UELPL207-106D1W3<br>UELPL207-107D1W3 | 46.04<br>1 13/16   | 167<br>6 9/16  | 127<br>5     | 48<br>1 7/8 | 17<br>21/32 | 20<br>25/32    | 18<br>23/32    | 91<br>3 19/32  | 54<br>2 1/8    | 51.1<br>2.012  | 18.8<br>0.740  | M14<br>1/2   |
| 45<br>1 5/8<br>1 11/16<br>1 3/4          | UELPL209D1W3<br>UELPL209-110D1W3<br>UELPL209-111D1W3<br>UELPL209-112D1W3                     | 52.39<br>2 1/16    | 190<br>7 15/32 | 146<br>5 3/4 | 54<br>2 1/8 | 17<br>21/32 | 20<br>25/32    | 20<br>25/32    | 104<br>4 3/32  | 60<br>2 3/8    | 56.3<br>2.217  | 21.4<br>0.843  | M14<br>1/2   |
| 50<br>1 13/16<br>1 7/8<br>1 15/16<br>2   | UELPL210D1W3<br>UELPL210-113D1W3<br>UELPL210-114D1W3<br>UELPL210-115D1W3<br>UELPL210-200D1W3 | 55.56<br>2 3/16    | 206<br>8 1/8   | 159<br>6 1/4 | 60<br>2 3/8 | 20<br>25/32 | 23<br>29/32    | 21<br>13/16    | 112<br>4 13/32 | 65<br>2 9/16   | 62.7<br>2.469  | 24.6<br>0.969  | M16<br>5/8   |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1"

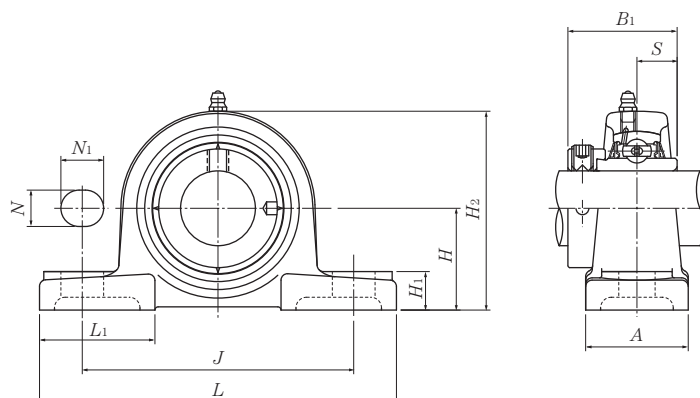
2) UELPL204 and UELPL205 has solid bases.

3) UELPL208 has the same dimension as UELP208 shown in page 230

Note: Please refer to page 36 for size of grease fitting.

| Bearing number | Housing <sup>1)</sup><br>number | Mass<br>(approx.) |    |
|----------------|---------------------------------|-------------------|----|
|                |                                 | kg                | lb |
| UEL204D1W3     | PL204D1                         | 0.8               |    |
| UEL204-012D1W3 | PL204D1                         | 1.8               |    |
| UEL205D1W3     | PL205D1                         | 0.9               |    |
| UEL205-013D1W3 | PL205D1                         |                   |    |
| UEL205-014D1W3 | PL205D1                         | 2.0               |    |
| UEL205-015D1W3 | PL205D1                         |                   |    |
| UEL205-100D1W3 | PL205D1                         |                   |    |
| UEL206D1W3     | PL206D1                         | 1.4               |    |
| UEL206-101D1W3 | PL206D1                         |                   |    |
| UEL206-102D1W3 | PL206D1                         | 3.1               |    |
| UEL206-103D1W3 | PL206D1                         |                   |    |
| UEL206-104D1W3 | PL206D1                         |                   |    |
| UEL207D1W3     | PL207D1                         | 1.7               |    |
| UEL207-104D1W3 | PL207D1                         |                   |    |
| UEL207-105D1W3 | PL207D1                         | 3.7               |    |
| UEL207-106D1W3 | PL207D1                         |                   |    |
| UEL207-107D1W3 | PL207D1                         |                   |    |
| UEL209D1W3     | PL209D1                         | 2.3               |    |
| UEL209-110D1W3 | PL209D1                         |                   |    |
| UEL209-111D1W3 | PL209D1                         | 5.1               |    |
| UEL209-112D1W3 | PL209D1                         |                   |    |
| UEL210D1W3     | PL210D1                         | 3.0               |    |
| UEL210-113D1W3 | PL210D1                         |                   |    |
| UEL210-114D1W3 | PL210D1                         | 6.6               |    |
| UEL210-115D1W3 | PL210D1                         |                   |    |
| UEL210-200D1W3 | PL210D1                         |                   |    |

**Pillow blocks cast housing low center height**  
**Eccentric locking collar type**



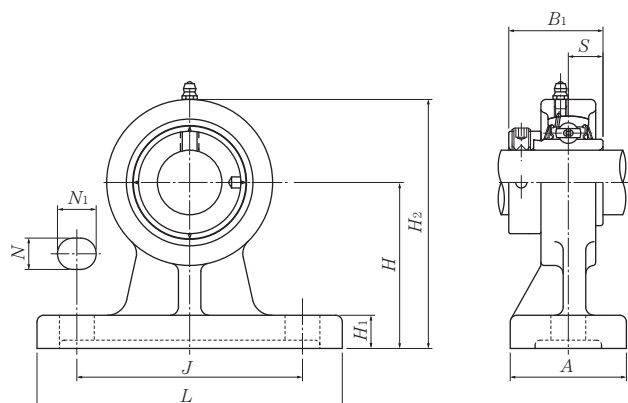
| Shaft<br>dia.                  | Unit number <sup>1)2)3)</sup> | Nominal dimensions              |                               |                                 |                               |                                |                                |                                |                                 |                                |                       |          | Bolt<br>size |            |  |
|--------------------------------|-------------------------------|---------------------------------|-------------------------------|---------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|--------------------------------|-----------------------|----------|--------------|------------|--|
|                                |                               |                                 |                               |                                 |                               |                                | mm                             | inch                           |                                 |                                |                       |          |              | mm<br>inch |  |
|                                |                               | <i>H</i>                        | <i>L</i>                      | <i>J</i>                        | <i>A</i>                      | <i>N</i>                       | <i>N</i> <sub>1</sub>          | <i>H</i> <sub>1</sub>          | <i>H</i> <sub>2</sub>           | <i>L</i> <sub>1</sub>          | <i>B</i> <sub>1</sub> | <i>S</i> |              |            |  |
| 55                             | UELPL211D1W3                  | 61.91                           | 219                           | 171                             | 60                            | 20                             | 23                             | 23                             | 124                             | 65                             | 71.4                  | 27.75    | M16          |            |  |
| 2                              | UELPL211-200D1W3              |                                 |                               |                                 |                               |                                |                                |                                |                                 |                                |                       |          |              |            |  |
| 2 <sup>1</sup> / <sub>16</sub> | UELPL211-201D1W3              | 2 <sup>7</sup> / <sub>16</sub>  | 8 <sup>5</sup> / <sub>8</sub> | 6 <sup>23</sup> / <sub>32</sub> | 2 <sup>3</sup> / <sub>8</sub> | 2 <sup>5</sup> / <sub>32</sub> | 2 <sup>9</sup> / <sub>32</sub> | 2 <sup>9</sup> / <sub>32</sub> | 4 <sup>7</sup> / <sub>8</sub>   | 2 <sup>9</sup> / <sub>16</sub> | 2.811                 | 1.093    | 5/8          |            |  |
| 2 <sup>1</sup> / <sub>8</sub>  | UELPL211-202D1W3              |                                 |                               |                                 |                               |                                |                                |                                |                                 |                                |                       |          |              |            |  |
| 2 <sup>3</sup> / <sub>16</sub> | UELPL211-203D1W3              |                                 |                               |                                 |                               |                                |                                |                                |                                 |                                |                       |          |              |            |  |
| 60                             | UELPL212D1W3                  | 68.26                           | 241                           | 184                             | 70                            | 20                             | 23                             | 25                             | 136                             | 70                             | 77.8                  | 30.95    | M16          |            |  |
| 2 <sup>1</sup> / <sub>4</sub>  | UELPL212-204D1W3              |                                 |                               |                                 |                               |                                |                                |                                |                                 |                                |                       |          |              |            |  |
| 2 <sup>5</sup> / <sub>16</sub> | UELPL212-205D1W3              | 2 <sup>11</sup> / <sub>16</sub> | 9 <sup>1</sup> / <sub>2</sub> | 7 <sup>1</sup> / <sub>4</sub>   | 2 <sup>3</sup> / <sub>4</sub> | 2 <sup>5</sup> / <sub>32</sub> | 2 <sup>9</sup> / <sub>32</sub> | 3 <sup>1</sup> / <sub>32</sub> | 5 <sup>11</sup> / <sub>32</sub> | 2 <sup>3</sup> / <sub>4</sub>  | 3.063                 | 1.219    | 5/8          |            |  |
| 2 <sup>5</sup> / <sub>8</sub>  | UELPL212-206D1W3              |                                 |                               |                                 |                               |                                |                                |                                |                                 |                                |                       |          |              |            |  |
| 2 <sup>7</sup> / <sub>16</sub> | UELPL212-207D1W3              |                                 |                               |                                 |                               |                                |                                |                                |                                 |                                |                       |          |              |            |  |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

| Bearing number | Housing <sup>1)</sup><br>number | Mass<br>(approx.) |    |
|----------------|---------------------------------|-------------------|----|
|                |                                 | kg                | lb |
| UEL211D1W3     | PL211D1                         | 3.7               |    |
| UEL211-200D1W3 | PL211D1                         |                   |    |
| UEL211-201D1W3 | PL211D1                         | 8.2               |    |
| UEL211-202D1W3 | PL211D1                         |                   |    |
| UEL211-203D1W3 | PL211D1                         |                   |    |
| UEL212D1W3     | PL212D1                         | 5.0               |    |
| UEL212-204D1W3 | PL212D1                         |                   |    |
| UEL212-205D1W3 | PL212D1                         | 11                |    |
| UEL212-206D1W3 | PL212D1                         |                   |    |
| UEL212-207D1W3 | PL212D1                         |                   |    |

**Pillow blocks cast housing high center height**  
**Eccentric locking collar type**



| Shaft<br>dia.                        | Unit number <sup>1)</sup>                                                                    | Nominal dimensions |               |               |              |             |                       |                       |                       |                       |                | Bolt<br>size | Bearing number                                                                     |
|--------------------------------------|----------------------------------------------------------------------------------------------|--------------------|---------------|---------------|--------------|-------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------|--------------|------------------------------------------------------------------------------------|
|                                      |                                                                                              | mm                 |               |               |              |             | inch                  |                       |                       |                       |                |              |                                                                                    |
|                                      |                                                                                              | <i>H</i>           | <i>L</i>      | <i>J</i>      | <i>A</i>     | <i>N</i>    | <i>N</i> <sub>1</sub> | <i>H</i> <sub>1</sub> | <i>H</i> <sub>2</sub> | <i>B</i> <sub>1</sub> | <i>S</i>       |              |                                                                                    |
| 20<br>3/4                            | UELHP204D1W3<br>UELHP204-012D1W3                                                             | 70<br>23/4         | 127<br>5      | 95<br>33/4    | 40<br>19/16  | 13<br>1/2   | 19<br>3/4             | 13<br>1/2             | 101<br>331/32         | 43.7<br>1.720         | 17.1<br>0.673  | M10<br>3/8   | UEL204D1W3<br>UEL204-012D1W3                                                       |
| 25<br>13/16<br>7/8<br>15/16<br>1     | UELHP205D1W3<br>UELHP205-013D1W3<br>UELHP205-014D1W3<br>UELHP205-015D1W3<br>UELHP205-100D1W3 | 80<br>35/32        | 142<br>519/32 | 105<br>41/8   | 50<br>131/32 | 13<br>1/2   | 19<br>3/4             | 13<br>1/2             | 114<br>41/2           | 44.4<br>1.748         | 17.45<br>0.687 | M10<br>3/8   | UEL205D1W3<br>UEL205-013D1W3<br>UEL205-014D1W3<br>UEL205-015D1W3<br>UEL205-100D1W3 |
| 30<br>11/16<br>11/8<br>13/16<br>11/4 | UELHP206D1W3<br>UELHP206-101D1W3<br>UELHP206-102D1W3<br>UELHP206-103D1W3<br>UELHP206-104D1W3 | 90<br>335/64       | 165<br>61/2   | 120<br>423/32 | 50<br>131/32 | 17<br>21/32 | 21<br>13/16           | 16<br>5/8             | 130<br>51/8           | 48.4<br>1.906         | 18.25<br>0.719 | M14<br>1/2   | UEL206D1W3<br>UEL206-101D1W3<br>UEL206-102D1W3<br>UEL206-103D1W3<br>UEL206-104D1W3 |
| 35<br>11/4<br>15/16<br>13/8<br>17/16 | UELHP207D1W3<br>UELHP207-104D1W3<br>UELHP207-105D1W3<br>UELHP207-106D1W3<br>UELHP207-107D1W3 | 95<br>347/64       | 166<br>617/32 | 127<br>5      | 60<br>23/8   | 17<br>21/32 | 21<br>13/16           | 18<br>23/32           | 140<br>51/2           | 51.1<br>2.012         | 18.8<br>0.740  | M14<br>1/2   | UEL207D1W3<br>UEL207-104D1W3<br>UEL207-105D1W3<br>UEL207-106D1W3<br>UEL207-107D1W3 |
| 40<br>11/2<br>19/16                  | UELHP208D1W3<br>UELHP208-108D1W3<br>UELHP208-109D1W3                                         | 100<br>315/16      | 184<br>71/4   | 136<br>511/32 | 70<br>23/4   | 17<br>21/32 | 21<br>13/16           | 20<br>25/32           | 150<br>529/32         | 56.3<br>2.217         | 21.4<br>0.843  | M14<br>1/2   | UEL208D1W3<br>UEL208-108D1W3<br>UEL208-109D1W3                                     |
| 45<br>15/8<br>111/16<br>13/4         | UELHP209D1W3<br>UELHP209-110D1W3<br>UELHP209-111D1W3<br>UELHP209-112D1W3                     | 105<br>49/64       | 190<br>715/32 | 146<br>53/4   | 70<br>23/4   | 17<br>21/32 | 22<br>7/8             | 20<br>25/32           | 158<br>67/32          | 56.3<br>2.217         | 21.4<br>0.843  | M14<br>1/2   | UEL209D1W3<br>UEL209-110D1W3<br>UEL209-111D1W3<br>UEL209-112D1W3                   |
| 50<br>113/16<br>17/8<br>115/16<br>2  | UELHP210D1W3<br>UELHP210-113D1W3<br>UELHP210-114D1W3<br>UELHP210-115D1W3<br>UELHP210-200D1W3 | 110<br>421/64      | 206<br>81/8   | 159<br>61/4   | 70<br>23/4   | 20<br>25/32 | 22<br>7/8             | 22<br>7/8             | 165<br>61/2           | 62.7<br>2.469         | 24.6<br>0.969  | M16<br>5/8   | UEL210D1W3<br>UEL210-113D1W3<br>UEL210-114D1W3<br>UEL210-115D1W3<br>UEL210-200D1W3 |

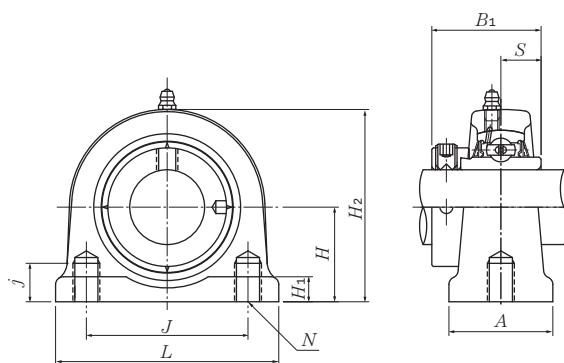
Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

| Housing<br>number <sup>1)</sup> | Mass<br>(approx.) |
|---------------------------------|-------------------|
|                                 | kg lb             |
| HP204D1                         | 0.9               |
| HP204D1                         | 2.0               |
| HP205D1                         | 1.3               |
| HP205D1                         |                   |
| HP205D1                         | 2.9               |
| HP205D1                         |                   |
| HP205D1                         |                   |
| HP206D1                         | 1.9               |
| HP206D1                         |                   |
| HP206D1                         | 4.2               |
| HP206D1                         |                   |
| HP206D1                         |                   |
| HP207D1                         | 2.4               |
| HP207D1                         |                   |
| HP207D1                         | 5.3               |
| HP207D1                         |                   |
| HP207D1                         |                   |
| HP208D1                         | 3.3               |
| HP208D1                         | 7.3               |
| HP208D1                         |                   |
| HP209D1                         | 3.7               |
| HP209D1                         |                   |
| HP209D1                         | 8.2               |
| HP209D1                         |                   |
| HP210D1                         | 4.1               |
| HP210D1                         |                   |
| HP210D1                         | 9.0               |
| HP210D1                         |                   |
| HP210D1                         |                   |



**Narrow pillow blocks cast housing**  
**Eccentric locking collar type**



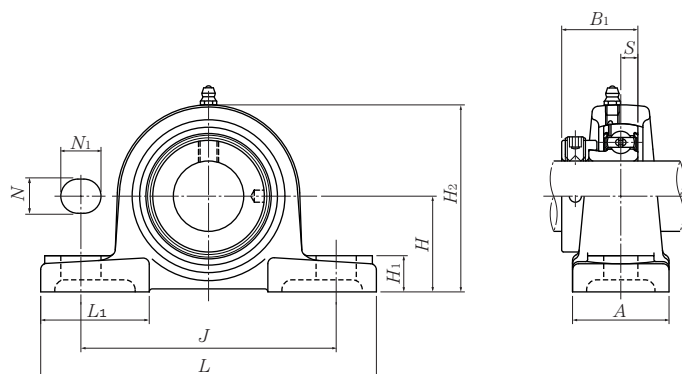
| Shaft<br>dia.                                                                       | Unit number <sup>1)</sup>                                                                                                       | Nominal dimensions       |                         |                        |                      |                       |                       |                         |                       |                |                        | Bearing number                                                                            |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------|------------------------|----------------------|-----------------------|-----------------------|-------------------------|-----------------------|----------------|------------------------|-------------------------------------------------------------------------------------------|
|                                                                                     |                                                                                                                                 | mm                       |                         |                        |                      |                       | inch                  |                         |                       |                |                        |                                                                                           |
|                                                                                     |                                                                                                                                 | <i>H</i>                 | <i>L</i>                | <i>J</i>               | <i>A</i>             | <i>j</i>              | <i>H</i> <sub>1</sub> | <i>H</i> <sub>2</sub>   | <i>B</i> <sub>1</sub> | <i>S</i>       | <i>N</i>               |                                                                                           |
| <b>20</b><br>$\frac{3}{4}$                                                          | <b>UELUP204D1W3</b><br><b>UELUP204-012D1W3</b>                                                                                  | 30.2<br>$1\frac{3}{16}$  | 76<br>3                 | 52<br>$2\frac{1}{16}$  | 38<br>$1\frac{1}{2}$ | 13<br>$\frac{1}{2}$   | 11<br>$\frac{7}{16}$  | 62<br>$2\frac{7}{16}$   | 43.7<br>1.720         | 17.1<br>0.673  | M10 × 1.5<br>M10 × 1.5 | <b>UEL204D1W3</b><br>UEL204-012D1W3                                                       |
| <b>25</b><br>$\frac{13}{16}$<br>$\frac{7}{8}$<br>$\frac{15}{16}$<br><b>1</b>        | <b>UELUP205D1W3</b><br><b>UELUP205-013D1W3</b><br><b>UELUP205-014D1W3</b><br><b>UELUP205-015D1W3</b><br><b>UELUP205-100D1W3</b> | 36.5<br>$1\frac{7}{16}$  | 84<br>$3\frac{5}{16}$   | 56<br>$2\frac{7}{32}$  | 38<br>$1\frac{1}{2}$ | 15<br>$\frac{19}{32}$ | 12<br>$\frac{15}{32}$ | 72<br>$2\frac{27}{32}$  | 44.4<br>1.748         | 17.45<br>0.687 | M10 × 1.5<br>M10 × 1.5 | <b>UEL205D1W3</b><br>UEL205-013D1W3<br>UEL205-014D1W3<br>UEL205-015D1W3<br>UEL205-100D1W3 |
| <b>30</b><br>$1\frac{1}{16}$<br>$1\frac{1}{8}$<br>$1\frac{3}{16}$<br>$1\frac{1}{4}$ | <b>UELUP206D1W3</b><br><b>UELUP206-101D1W3</b><br><b>UELUP206-102D1W3</b><br><b>UELUP206-103D1W3</b><br><b>UELUP206-104D1W3</b> | 42.9<br>$1\frac{11}{16}$ | 94<br>$3\frac{11}{16}$  | 66<br>$2\frac{19}{32}$ | 48<br>$1\frac{7}{8}$ | 18<br>$\frac{23}{32}$ | 12<br>$\frac{15}{32}$ | 84<br>$3\frac{5}{16}$   | 48.4<br>1.906         | 18.25<br>0.719 | M14 × 2<br>M14 × 2     | <b>UEL206D1W3</b><br>UEL206-101D1W3<br>UEL206-102D1W3<br>UEL206-103D1W3<br>UEL206-104D1W3 |
| <b>35</b><br>$1\frac{1}{4}$<br>$1\frac{5}{16}$<br>$1\frac{3}{8}$<br>$1\frac{7}{16}$ | <b>UELUP207D1W3</b><br><b>UELUP207-104D1W3</b><br><b>UELUP207-105D1W3</b><br><b>UELUP207-106D1W3</b><br><b>UELUP207-107D1W3</b> | 47.6<br>$1\frac{7}{8}$   | 110<br>$4\frac{11}{32}$ | 80<br>$3\frac{5}{32}$  | 48<br>$1\frac{7}{8}$ | 20<br>$\frac{25}{32}$ | 13<br>$\frac{1}{2}$   | 95<br>$3\frac{3}{4}$    | 51.1<br>2.012         | 18.8<br>0.740  | M14 × 2<br>M14 × 2     | <b>UEL207D1W3</b><br>UEL207-104D1W3<br>UEL207-105D1W3<br>UEL207-106D1W3<br>UEL207-107D1W3 |
| <b>40</b><br>$1\frac{1}{2}$<br>$1\frac{9}{16}$                                      | <b>UELUP208D1W3</b><br><b>UELUP208-108D1W3</b><br><b>UELUP208-109D1W3</b>                                                       | 49.2<br>$1\frac{15}{16}$ | 116<br>$4\frac{9}{16}$  | 84<br>$3\frac{5}{16}$  | 54<br>$2\frac{1}{8}$ | 20<br>$\frac{25}{32}$ | 13<br>$\frac{1}{2}$   | 100<br>$3\frac{15}{16}$ | 56.3<br>2.217         | 21.4<br>0.843  | M14 × 2<br>M14 × 2     | <b>UEL208D1W3</b><br>UEL208-108D1W3<br>UEL208-109D1W3                                     |
| <b>45</b><br>$1\frac{5}{8}$<br>$1\frac{11}{16}$<br>$1\frac{3}{4}$                   | <b>UELUP209D1W3</b><br><b>UELUP209-110D1W3</b><br><b>UELUP209-111D1W3</b><br><b>UELUP209-112D1W3</b>                            | 54.2<br>$2\frac{1}{8}$   | 120<br>$4\frac{23}{32}$ | 90<br>$3\frac{17}{32}$ | 54<br>$2\frac{1}{8}$ | 25<br>$\frac{31}{32}$ | 13<br>$\frac{1}{2}$   | 108<br>$4\frac{1}{4}$   | 56.3<br>2.217         | 21.4<br>0.843  | M14 × 2<br>M14 × 2     | <b>UEL209D1W3</b><br>UEL209-110D1W3<br>UEL209-111D1W3<br>UEL209-112D1W3                   |
| <b>50</b><br>$1\frac{13}{16}$<br>$1\frac{7}{8}$<br>$1\frac{15}{16}$<br><b>2</b>     | <b>UELUP210D1W3</b><br><b>UELUP210-113D1W3</b><br><b>UELUP210-114D1W3</b><br><b>UELUP210-115D1W3</b><br><b>UELUP210-200D1W3</b> | 57.2<br>$2\frac{1}{4}$   | 130<br>$5\frac{1}{8}$   | 94<br>$3\frac{11}{16}$ | 60<br>$2\frac{3}{8}$ | 25<br>$\frac{31}{32}$ | 14<br>$\frac{9}{16}$  | 116<br>$4\frac{9}{16}$  | 62.7<br>2.469         | 24.6<br>0.969  | M16 × 2<br>M16 × 2     | <b>UEL210D1W3</b><br>UEL210-113D1W3<br>UEL210-114D1W3<br>UEL210-115D1W3<br>UEL210-200D1W3 |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

| Housing<br>number <sup>1)</sup> | Mass<br>(approx.) |
|---------------------------------|-------------------|
|                                 | kg lb             |
| UP204D1                         | 0.6               |
| UP204D1                         | 1.3               |
| UP205D1                         | 0.8               |
| UP205D1                         |                   |
| UP205D1                         | 1.8               |
| UP205D1                         |                   |
| UP205D1                         |                   |
| UP206D1                         | 1.3               |
| UP206D1                         |                   |
| UP206D1                         | 2.9               |
| UP206D1                         |                   |
| UP206D1                         |                   |
| UP207D1                         | 1.7               |
| UP207D1                         |                   |
| UP207D1                         | 3.8               |
| UP207D1                         |                   |
| UP207D1                         |                   |
| UP208D1                         | 2.0               |
| UP208D1                         | 4.4               |
| UP208D1                         |                   |
| UP209D1                         | 2.3               |
| UP209D1                         |                   |
| UP209D1                         | 5.1               |
| UP209D1                         |                   |
| UP210D1                         | 2.8               |
| UP210D1                         |                   |
| UP210D1                         | 6.2               |
| UP210D1                         |                   |
| UP210D1                         |                   |

**Pillow blocks cast housing low center height**  
**Eccentric locking collar type**



| Shaft<br>dia.                     | Unit number <sup>1) 2) 3)</sup>                                                                                                 | Nominal dimensions |           |           |          |            |                       |                       |                       |                       |                       |              | Bolt<br>size |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------|-----------|----------|------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------|--------------|
|                                   |                                                                                                                                 |                    |           |           |          |            |                       |                       |                       |                       |                       | mm<br>inch   |              |
|                                   |                                                                                                                                 | <i>H</i>           | <i>L</i>  | <i>J</i>  | <i>A</i> | <i>N</i>   | <i>N</i> <sub>1</sub> | <i>H</i> <sub>1</sub> | <i>H</i> <sub>2</sub> | <i>L</i> <sub>1</sub> | <i>B</i> <sub>1</sub> |              |              |
| <b>12</b><br>1½                   | <b>AELPL201D1W3</b><br><b>AELPL201-008D1W3</b>                                                                                  | 26.99<br>1⅛        | 121<br>4¾ | 89<br>3½  | 35<br>1⅜ | 11<br>7⁄₁₆ | 14<br>9⁄₁₆            | 13<br>½               | 54<br>2⅛              | 40<br>1⅞              | 28.6<br>1.126         | 6.5<br>0.256 | M10<br>⅜     |
| <b>15</b><br>9⁄₁₆<br>5⁄₈          | <b>AELPL202D1W3</b><br><b>AELPL202-009D1W3</b><br><b>AELPL202-010D1W3</b>                                                       | 26.99<br>1⅛        | 121<br>4¾ | 89<br>3½  | 35<br>1⅜ | 11<br>7⁄₁₆ | 14<br>9⁄₁₆            | 13<br>½               | 54<br>2⅛              | 40<br>1⅞              | 28.6<br>1.126         | 6.5<br>0.256 | M10<br>⅜     |
| <b>17</b><br>1⅞                   | <b>AELPL203D1W3</b><br><b>AELPL203-011D1W3</b>                                                                                  | 26.99<br>1⅛        | 121<br>4¾ | 89<br>3½  | 35<br>1⅜ | 11<br>7⁄₁₆ | 14<br>9⁄₁₆            | 13<br>½               | 54<br>2⅛              | 40<br>1⅞              | 28.6<br>1.126         | 6.5<br>0.256 | M10<br>⅜     |
| <b>20</b><br>¾                    | <b>AELPL204D1W3</b><br><b>AELPL204-012D1W3</b>                                                                                  | 31.75<br>1¼        | 127<br>5  | 95<br>3¾  | 38<br>1½ | 13<br>½    | 16<br>5⁄₈             | 14<br>9⁄₁₆            | 64<br>2⅞              | 42<br>1⅞              | 31<br>1.220           | 7.5<br>0.295 | M10<br>⅜     |
| <b>25</b><br>1⅜<br>7⁄₈<br>1⅝<br>1 | <b>AELPL205D1W3</b><br><b>AELPL205-013D1W3</b><br><b>AELPL205-014D1W3</b><br><b>AELPL205-015D1W3</b><br><b>AELPL205-100D1W3</b> | 33.34<br>1⅝        | 140<br>5½ | 105<br>4⅛ | 38<br>1½ | 13<br>½    | 16<br>5⁄₈             | 15<br>19⁄₃₂           | 68<br>2⅞              | 42<br>1⅞              | 31<br>1.220           | 7.5<br>0.295 | M10<br>⅜     |
| <b>30</b><br>1⅛<br>1⅝<br>1⅜<br>1¼ | <b>AELPL206D1W3</b><br><b>AELPL206-101D1W3</b><br><b>AELPL206-102D1W3</b><br><b>AELPL206-103D1W3</b><br><b>AELPL206-104D1W3</b> | 39.69<br>1⅞        | 165<br>6½ | 121<br>4¾ | 48<br>1⅞ | 17<br>2⅞   | 20<br>25⁄₃₂           | 17<br>2⅞              | 80<br>3⅝              | 54<br>2⅛              | 35.7<br>1.406         | 9<br>0.354   | M14<br>½     |
| <b>35</b><br>1¼<br>1⅝<br>1⅜<br>1⅞ | <b>AELPL207D1W3</b><br><b>AELPL207-104D1W3</b><br><b>AELPL207-105D1W3</b><br><b>AELPL207-106D1W3</b><br><b>AELPL207-107D1W3</b> | 46.04<br>1⅝        | 167<br>6⅞ | 127<br>5  | 48<br>1⅞ | 17<br>2⅞   | 20<br>25⁄₃₂           | 18<br>23⁄₃₂           | 91<br>3⅞              | 54<br>2⅛              | 38.9<br>1.531         | 9.5<br>0.374 | M14<br>½     |
| <b>40</b><br>1½<br>1⅞             | <b>AELP208D1W3</b><br><b>AELP208-108D1W3</b><br><b>AELP208-109D1W3</b>                                                          | 49.2<br>1⅝         | 184<br>7¼ | 137<br>5⅜ | 54<br>2⅛ | 17<br>2⅞   | 20<br>25⁄₃₂           | 18<br>23⁄₃₂           | 98<br>3⅞              | 52<br>2⅛              | 43.7<br>1.720         | 11<br>0.433  | M14<br>½     |

Remarks: 1) AELPL201 to AELPL205 has solid base.

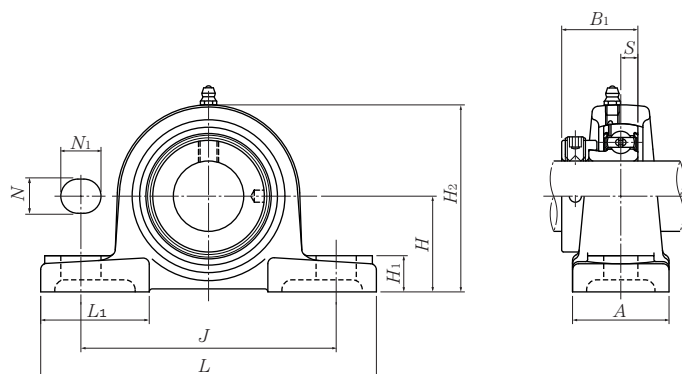
2) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

3) AELPL208 has the same dimension as AELP208.

Note: Please refer to page 36 for size of grease fitting.

| Bearing number <sup>2)</sup> | Housing <sup>2)</sup><br>number | Mass<br>(approx.) |    |
|------------------------------|---------------------------------|-------------------|----|
|                              |                                 | kg                | lb |
| AEL201D1W3                   | PL201D1                         | 0.5               |    |
| AEL201-008D1W3               | PL201D1                         | 1.1               |    |
| AEL202D1W3                   | PL201D1                         | 0.5               |    |
| AEL202-009D1W3               | PL201D1                         | 1.1               |    |
| AEL202-010D1W3               | PL201D1                         |                   |    |
| AEL203D1W3                   | PL201D1                         | 0.5               |    |
| AEL203-011D1W3               | PL201D1                         | 1.1               |    |
| AEL204D1W3                   | PL204D1                         | 0.7               |    |
| AEL204-012D1W3               | PL204D1                         | 1.5               |    |
| AEL205D1W3                   | PL205D1                         | 0.8               |    |
| AEL205-013D1W3               | PL205D1                         |                   |    |
| AEL205-014D1W3               | PL205D1                         | 1.8               |    |
| AEL205-015D1W3               | PL205D1                         |                   |    |
| AEL205-100D1W3               | PL205D1                         |                   |    |
| AEL206D1W3                   | PL206D1                         | 1.3               |    |
| AEL206-101D1W3               | PL206D1                         |                   |    |
| AEL206-102D1W3               | PL206D1                         | 2.9               |    |
| AEL206-103D1W3               | PL206D1                         |                   |    |
| AEL206-104D1W3               | PL206D1                         |                   |    |
| AEL207D1W3                   | PL207D1                         | 1.6               |    |
| AEL207-104D1W3               | PL207D1                         |                   |    |
| AEL207-105D1W3               | PL207D1                         | 3.5               |    |
| AEL207-106D1W3               | PL207D1                         |                   |    |
| AEL207-107D1W3               | PL207D1                         |                   |    |
| AEL208W3D1                   | P208D1                          | 2.0               |    |
| AEL208-108D1W3               | P208D1                          | 4.4               |    |
| AEL208-109D1W3               | P208D1                          |                   |    |

**Pillow blocks cast housing low center height**  
**Eccentric locking collar type**



| Shaft<br>dia.                       | Unit number <sup>1) 2) 3)</sup> | Nominal dimensions              |                                 |                                 |                               |                                |                                |                                |                                 |                                |                |       | Bolt<br>size |
|-------------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|--------------------------------|----------------|-------|--------------|
|                                     |                                 | H                               | L                               | J                               | A                             | N                              | N <sub>1</sub>                 | H <sub>1</sub>                 | H <sub>2</sub>                  | L <sub>1</sub>                 | B <sub>1</sub> | S     |              |
| mm<br>inch                          |                                 |                                 |                                 |                                 |                               | mm                             | inch                           |                                |                                 |                                |                |       | mm<br>inch   |
| <b>45</b>                           | <b>AELPL209D1W3</b>             | 52.39                           | 190                             | 146                             | 54                            | 17                             | 20                             | 20                             | 104                             | 60                             | 43.7           | 11    | M14          |
| <b>1<sup>5</sup>/<sub>8</sub></b>   | <b>AELPL209-110D1W3</b>         |                                 |                                 |                                 |                               |                                |                                |                                |                                 |                                |                |       |              |
| <b>1<sup>11</sup>/<sub>16</sub></b> | <b>AELPL209-111D1W3</b>         | 2 <sup>1</sup> / <sub>16</sub>  | 7 <sup>15</sup> / <sub>32</sub> | 5 <sup>3</sup> / <sub>4</sub>   | 2 <sup>1</sup> / <sub>8</sub> | 2 <sup>1</sup> / <sub>32</sub> | 2 <sup>5</sup> / <sub>32</sub> | 2 <sup>5</sup> / <sub>32</sub> | 4 <sup>3</sup> / <sub>32</sub>  | 2 <sup>3</sup> / <sub>8</sub>  | 1.720          | 0.433 | 1/2          |
| <b>1<sup>3</sup>/<sub>4</sub></b>   | <b>AELPL209-112D1W3</b>         |                                 |                                 |                                 |                               |                                |                                |                                |                                 |                                |                |       |              |
| <b>50</b>                           | <b>AELPL210D1W3</b>             | 55.56                           | 206                             | 159                             | 60                            | 20                             | 23                             | 21                             | 112                             | 65                             | 43.7           | 11    | M16          |
| <b>1<sup>13</sup>/<sub>16</sub></b> | <b>AELPL210-113D1W3</b>         |                                 |                                 |                                 |                               |                                |                                |                                |                                 |                                |                |       |              |
| <b>1<sup>7</sup>/<sub>8</sub></b>   | <b>AELPL210-114D1W3</b>         | 2 <sup>3</sup> / <sub>16</sub>  | 8 <sup>1</sup> / <sub>8</sub>   | 6 <sup>1</sup> / <sub>4</sub>   | 2 <sup>3</sup> / <sub>8</sub> | 2 <sup>5</sup> / <sub>32</sub> | 2 <sup>9</sup> / <sub>32</sub> | 1 <sup>3</sup> / <sub>16</sub> | 4 <sup>13</sup> / <sub>32</sub> | 2 <sup>9</sup> / <sub>16</sub> | 1.720          | 0.433 | 5/8          |
| <b>1<sup>15</sup>/<sub>16</sub></b> | <b>AELPL210-115D1W3</b>         |                                 |                                 |                                 |                               |                                |                                |                                |                                 |                                |                |       |              |
| <b>2</b>                            | <b>AELPL210-200D1W3</b>         |                                 |                                 |                                 |                               |                                |                                |                                |                                 |                                |                |       |              |
| <b>55</b>                           | <b>AELPL211D1W3</b>             | 61.91                           | 219                             | 171                             | 60                            | 20                             | 23                             | 23                             | 124                             | 65                             | 48.4           | 12    | M16          |
| <b>2</b>                            | <b>AELPL211-200D1W3</b>         |                                 |                                 |                                 |                               |                                |                                |                                |                                 |                                |                |       |              |
| <b>2<sup>1</sup>/<sub>16</sub></b>  | <b>AELPL211-201D1W3</b>         | 2 <sup>7</sup> / <sub>16</sub>  | 8 <sup>5</sup> / <sub>8</sub>   | 6 <sup>23</sup> / <sub>32</sub> | 2 <sup>3</sup> / <sub>8</sub> | 2 <sup>5</sup> / <sub>32</sub> | 2 <sup>9</sup> / <sub>32</sub> | 2 <sup>9</sup> / <sub>32</sub> | 4 <sup>7</sup> / <sub>8</sub>   | 2 <sup>9</sup> / <sub>16</sub> | 1.906          | 0.472 | 5/8          |
| <b>2<sup>1</sup>/<sub>8</sub></b>   | <b>AELPL211-202D1W3</b>         |                                 |                                 |                                 |                               |                                |                                |                                |                                 |                                |                |       |              |
| <b>2<sup>3</sup>/<sub>16</sub></b>  | <b>AELPL211-203D1W3</b>         |                                 |                                 |                                 |                               |                                |                                |                                |                                 |                                |                |       |              |
| <b>60</b>                           | <b>AELPL212D1W3</b>             | 68.26                           | 241                             | 184                             | 70                            | 20                             | 23                             | 25                             | 136                             | 70                             | 53.1           | 13.5  | M16          |
| <b>2<sup>1</sup>/<sub>4</sub></b>   | <b>AELPL212-204D1W3</b>         |                                 |                                 |                                 |                               |                                |                                |                                |                                 |                                |                |       |              |
| <b>2<sup>5</sup>/<sub>16</sub></b>  | <b>AELPL212-205D1W3</b>         | 2 <sup>11</sup> / <sub>16</sub> | 9 <sup>1</sup> / <sub>2</sub>   | 7 <sup>1</sup> / <sub>4</sub>   | 2 <sup>3</sup> / <sub>4</sub> | 2 <sup>5</sup> / <sub>32</sub> | 2 <sup>9</sup> / <sub>32</sub> | 3 <sup>1</sup> / <sub>32</sub> | 5 <sup>11</sup> / <sub>32</sub> | 2 <sup>3</sup> / <sub>4</sub>  | 2.091          | 0.531 | 5/8          |
| <b>2<sup>3</sup>/<sub>8</sub></b>   | <b>AELPL212-206D1W3</b>         |                                 |                                 |                                 |                               |                                |                                |                                |                                 |                                |                |       |              |
| <b>2<sup>7</sup>/<sub>16</sub></b>  | <b>AELPL212-207D1W3</b>         |                                 |                                 |                                 |                               |                                |                                |                                |                                 |                                |                |       |              |

Remarks: 1) AELPL201 to AELPL205 has solid base.

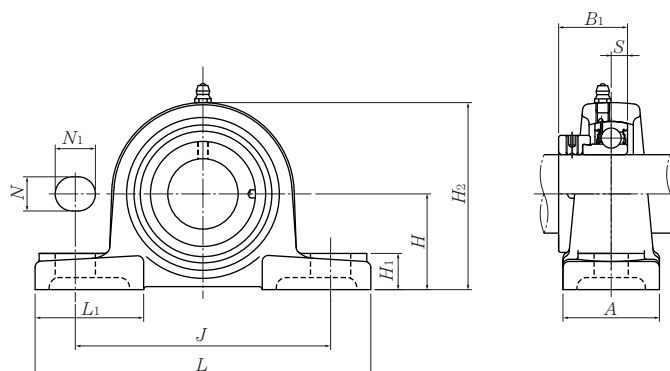
2) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

3) AELPL208 has the same dimension as AELP208.

Note: Please refer to page 36 for size of grease fitting.

| Bearing number <sup>2)</sup> | Housing <sup>2)</sup><br>number | Mass<br>(approx.) |    |
|------------------------------|---------------------------------|-------------------|----|
|                              |                                 | kg                | lb |
| AEL209D1W3                   | PL209D1                         | 2.2               |    |
| AEL209-110D1W3               | PL209D1                         |                   |    |
| AEL209-111D1W3               | PL209D1                         | 4.9               |    |
| AEL209-112D1W3               | PL209D1                         |                   |    |
| AEL210D1W3                   | PL210D1                         | 2.7               |    |
| AEL210-113D1W3               | PL210D1                         |                   |    |
| AEL210-114D1W3               | PL210D1                         | 6.0               |    |
| AEL210-115D1W3               | PL210D1                         |                   |    |
| AEL210-200D1W3               | PL210D1                         |                   |    |
| AEL211D1W3                   | PL211D1                         | 3.3               |    |
| AEL211-200D1W3               | PL211D1                         |                   |    |
| AEL211-201D1W3               | PL211D1                         | 7.3               |    |
| AEL211-202D1W3               | PL211D1                         |                   |    |
| AEL211-203D1W3               | PL211D1                         |                   |    |
| AEL212D1W3                   | PL212D1                         | 4.5               |    |
| AEL212-204D1W3               | PL212D1                         |                   |    |
| AEL212-205D1W3               | PL212D1                         | 9.9               |    |
| AEL212-206D1W3               | PL212D1                         |                   |    |
| AEL212-207D1W3               | PL212D1                         |                   |    |

**Pillow blocks cast housing low center height**  
**Eccentric locking collar type**



| Shaft<br>dia.   | Unit number <sup>1) 2) 3)</sup> | Nominal dimensions |                 |                  |                |                 |                 |                 |                  |                  |                |       | Bolt<br>size  |
|-----------------|---------------------------------|--------------------|-----------------|------------------|----------------|-----------------|-----------------|-----------------|------------------|------------------|----------------|-------|---------------|
|                 |                                 | H                  | L               | J                | A              | N               | N <sub>1</sub>  | H <sub>1</sub>  | H <sub>2</sub>   | L <sub>1</sub>   | B <sub>1</sub> | S     |               |
| mm<br>inch      |                                 |                    |                 |                  |                |                 |                 |                 |                  |                  |                |       | mm<br>inch    |
| <b>12</b>       | <b>JELPL201D1W3</b>             | 26.99              | 121             | 89               | 35             | 11              | 14              | 13              | 54               | 40               | 28.6           | 6.5   | M10           |
| $\frac{1}{2}$   | <b>JELPL201-008D1W3</b>         | $1\frac{1}{16}$    | $4\frac{3}{4}$  | $3\frac{1}{2}$   | $1\frac{3}{8}$ | $\frac{7}{16}$  | $\frac{9}{16}$  | $\frac{1}{2}$   | $2\frac{1}{8}$   | $1\frac{9}{16}$  | 1.126          | 0.256 | $\frac{3}{8}$ |
| <b>15</b>       | <b>JELPL202D1W3</b>             | 26.99              | 121             | 89               | 35             | 11              | 14              | 13              | 54               | 40               | 28.6           | 6.5   | M10           |
| $\frac{9}{16}$  | <b>JELPL202-009D1W3</b>         | $1\frac{1}{16}$    | $4\frac{3}{4}$  | $3\frac{1}{2}$   | $1\frac{3}{8}$ | $\frac{7}{16}$  | $\frac{9}{16}$  | $\frac{1}{2}$   | $2\frac{1}{8}$   | $1\frac{9}{16}$  | 1.126          | 0.256 | $\frac{3}{8}$ |
| $\frac{5}{8}$   | <b>JELPL202-010D1W3</b>         |                    |                 |                  |                |                 |                 |                 |                  |                  |                |       |               |
| <b>17</b>       | <b>JELPL203D1W3</b>             | 26.99              | 121             | 89               | 35             | 11              | 14              | 13              | 54               | 40               | 28.6           | 6.5   | M10           |
| $\frac{11}{16}$ | <b>JELPL203-011D1W3</b>         | $1\frac{1}{16}$    | $4\frac{3}{4}$  | $3\frac{1}{2}$   | $1\frac{3}{8}$ | $\frac{7}{16}$  | $\frac{9}{16}$  | $\frac{1}{2}$   | $2\frac{1}{8}$   | $1\frac{9}{16}$  | 1.126          | 0.256 | $\frac{3}{8}$ |
| <b>20</b>       | <b>JELPL204D1W3</b>             | 31.75              | 127             | 95               | 38             | 13              | 16              | 14              | 64               | 42               | 31             | 7.5   | M10           |
| $\frac{3}{4}$   | <b>JELPL204-012D1W3</b>         | $1\frac{1}{4}$     | 5               | $3\frac{3}{4}$   | $1\frac{1}{2}$ | $\frac{1}{2}$   | $\frac{5}{8}$   | $\frac{9}{16}$  | $2\frac{17}{32}$ | $1\frac{21}{32}$ | 1.220          | 0.295 | $\frac{3}{8}$ |
| <b>25</b>       | <b>JELPL205D1W3</b>             | 33.34              | 140             | 105              | 38             | 13              | 16              | 15              | 68               | 42               | 31             | 7.5   | M10           |
| $\frac{13}{16}$ | <b>JELPL205-013D1W3</b>         |                    |                 |                  |                |                 |                 |                 |                  |                  |                |       |               |
| $\frac{7}{8}$   | <b>JELPL205-014D1W3</b>         | $1\frac{5}{16}$    | $5\frac{1}{2}$  | $4\frac{1}{8}$   | $1\frac{1}{2}$ | $\frac{1}{2}$   | $\frac{5}{8}$   | $\frac{19}{32}$ | $2\frac{11}{16}$ | $1\frac{21}{32}$ | 1.220          | 0.295 | $\frac{3}{8}$ |
| $\frac{15}{16}$ | <b>JELPL205-015D1W3</b>         |                    |                 |                  |                |                 |                 |                 |                  |                  |                |       |               |
| <b>1</b>        | <b>JELPL205-100D1W3</b>         |                    |                 |                  |                |                 |                 |                 |                  |                  |                |       |               |
| <b>30</b>       | <b>JELPL206D1W3</b>             | 39.69              | 165             | 121              | 48             | 17              | 20              | 17              | 80               | 54               | 35.7           | 9     | M14           |
| $\frac{11}{16}$ | <b>JELPL206-101D1W3</b>         |                    |                 |                  |                |                 |                 |                 |                  |                  |                |       |               |
| $\frac{11}{8}$  | <b>JELPL206-102D1W3</b>         | $1\frac{9}{16}$    | $6\frac{1}{2}$  | $4\frac{3}{4}$   | $1\frac{7}{8}$ | $\frac{21}{32}$ | $\frac{25}{32}$ | $\frac{21}{32}$ | $3\frac{5}{32}$  | $2\frac{1}{8}$   | 1.406          | 0.354 | $\frac{1}{2}$ |
| $\frac{13}{16}$ | <b>JELPL206-103D1W3</b>         |                    |                 |                  |                |                 |                 |                 |                  |                  |                |       |               |
| $\frac{11}{4}$  | <b>JELPL206-104D1W3</b>         |                    |                 |                  |                |                 |                 |                 |                  |                  |                |       |               |
| <b>35</b>       | <b>JELPL207D1W3</b>             | 46.04              | 167             | 127              | 48             | 17              | 20              | 18              | 91               | 54               | 38.9           | 9.5   | M14           |
| $\frac{11}{4}$  | <b>JELPL207-104D1W3</b>         |                    |                 |                  |                |                 |                 |                 |                  |                  |                |       |               |
| $\frac{5}{16}$  | <b>JELPL207-105D1W3</b>         | $1\frac{13}{16}$   | $6\frac{9}{16}$ | 5                | $1\frac{7}{8}$ | $\frac{21}{32}$ | $\frac{25}{32}$ | $\frac{23}{32}$ | $3\frac{19}{32}$ | $2\frac{1}{8}$   | 1.531          | 0.374 | $\frac{1}{2}$ |
| $\frac{3}{8}$   | <b>JELPL207-106D1W3</b>         |                    |                 |                  |                |                 |                 |                 |                  |                  |                |       |               |
| $\frac{17}{16}$ | <b>JELPL207-107D1W3</b>         |                    |                 |                  |                |                 |                 |                 |                  |                  |                |       |               |
| <b>40</b>       | <b>JELP208D1W3</b>              | 49.2               | 184             | 137              | 54             | 17              | 20              | 18              | 98               | 52               | 43.7           | 11    | M14           |
| $\frac{11}{2}$  | <b>JELP208-108D1W3</b>          | $1\frac{15}{16}$   | $7\frac{1}{4}$  | $5\frac{13}{32}$ | $2\frac{1}{8}$ | $\frac{21}{32}$ | $\frac{25}{32}$ | $\frac{23}{32}$ | $3\frac{27}{32}$ | $2\frac{1}{16}$  | 1.720          | 0.433 | $\frac{1}{2}$ |
| $\frac{9}{16}$  | <b>JELP208-109D1W3</b>          |                    |                 |                  |                |                 |                 |                 |                  |                  |                |       |               |

Remarks: 1) JELPL201 to JELPL205 has solid base.

2) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

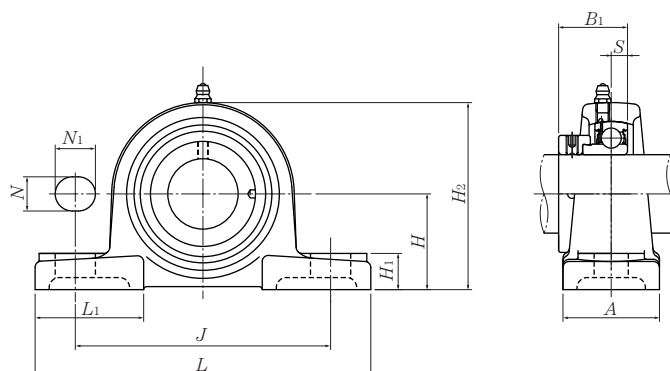
3) JELPL208 has the same dimension as JELP208.

Note: Please refer to page 36 for size of grease fitting.

| Bearing number <sup>2)</sup> | Housing <sup>2)</sup><br>number | Mass<br>(approx.) |    |
|------------------------------|---------------------------------|-------------------|----|
|                              |                                 | kg                | lb |
| JEL201D1W3                   | PL201D1                         | 0.5               |    |
| JEL201-008D1W3               | PL201D1                         | 1.1               |    |
| JEL202D1W3                   | PL201D1                         | 0.5               |    |
| JEL202-009D1W3               | PL201D1                         | 1.1               |    |
| JEL202-010D1W3               | PL201D1                         |                   |    |
| JEL203D1W3                   | PL201D1                         | 0.5               |    |
| JEL203-011D1W3               | PL201D1                         | 1.1               |    |
| JEL204D1W3                   | PL204D1                         | 0.7               |    |
| JEL204-012D1W3               | PL204D1                         | 1.5               |    |
| JEL205D1W3                   | PL205D1                         | 0.8               |    |
| JEL205-013D1W3               | PL205D1                         |                   |    |
| JEL205-014D1W3               | PL205D1                         | 1.8               |    |
| JEL205-015D1W3               | PL205D1                         |                   |    |
| JEL205-100D1W3               | PL205D1                         |                   |    |
| JEL206D1W3                   | PL206D1                         | 1.3               |    |
| JEL206-101D1W3               | PL206D1                         |                   |    |
| JEL206-102D1W3               | PL206D1                         | 2.9               |    |
| JEL206-103D1W3               | PL206D1                         |                   |    |
| JEL206-104D1W3               | PL206D1                         |                   |    |
| JEL207D1W3                   | PL207D1                         | 1.6               |    |
| JEL207-104D1W3               | PL207D1                         |                   |    |
| JEL207-105D1W3               | PL207D1                         | 3.5               |    |
| JEL207-106D1W3               | PL207D1                         |                   |    |
| JEL207-107D1W3               | PL207D1                         |                   |    |
| JEL208D1W3                   | P208D1                          | 2.0               |    |
| JEL208-108D1W3               | P208D1                          | 4.4               |    |
| JEL208-109D1W3               | P208D1                          |                   |    |



**Pillow blocks cast housing low center height**  
**Eccentric locking collar type**



| Shaft<br>dia.                                                                                                                            | Unit number <sup>1) 2) 3)</sup>                                                              | Nominal dimensions                       |                                        |                                        |                                     |                                      |                                      |                                       |                                        |                                      |                       |               | Bolt<br>size                                     |
|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------|----------------------------------------|----------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|----------------------------------------|--------------------------------------|-----------------------|---------------|--------------------------------------------------|
|                                                                                                                                          |                                                                                              |                                          |                                        |                                        |                                     |                                      | mm                                   |                                       | inch                                   |                                      |                       |               |                                                  |
|                                                                                                                                          |                                                                                              | <i>H</i>                                 | <i>L</i>                               | <i>J</i>                               | <i>A</i>                            | <i>N</i>                             | <i>N</i> <sub>1</sub>                | <i>H</i> <sub>1</sub>                 | <i>H</i> <sub>2</sub>                  | <i>L</i> <sub>1</sub>                | <i>B</i> <sub>1</sub> | <i>S</i>      |                                                  |
| 45<br>1 <sup>5</sup> / <sub>8</sub><br>1 <sup>11</sup> / <sub>16</sub><br>1 <sup>3</sup> / <sub>4</sub>                                  | JELPL209D1W3<br>JELPL209-110D1W3<br>JELPL209-111D1W3<br>JELPL209-112D1W3                     | 52.39<br>2 <sup>1</sup> / <sub>16</sub>  | 190<br>7 <sup>15</sup> / <sub>32</sub> | 146<br>5 <sup>3</sup> / <sub>4</sub>   | 54<br>2 <sup>1</sup> / <sub>8</sub> | 17<br>2 <sup>1</sup> / <sub>32</sub> | 20<br>2 <sup>5</sup> / <sub>32</sub> | 20<br>2 <sup>5</sup> / <sub>32</sub>  | 104<br>4 <sup>3</sup> / <sub>32</sub>  | 60<br>2 <sup>3</sup> / <sub>8</sub>  | 43.7<br>1.720         | 11<br>0.433   | M14<br><br><br>1 <sup>1</sup> / <sub>2</sub>     |
| 50<br>1 <sup>13</sup> / <sub>16</sub><br>1 <sup>7</sup> / <sub>8</sub><br>1 <sup>15</sup> / <sub>16</sub><br>2                           | JELPL210D1W3<br>JELPL210-113D1W3<br>JELPL210-114D1W3<br>JELPL210-115D1W3<br>JELPL210-200D1W3 | 55.56<br>2 <sup>3</sup> / <sub>16</sub>  | 206<br>8 <sup>1</sup> / <sub>8</sub>   | 159<br>6 <sup>1</sup> / <sub>4</sub>   | 60<br>2 <sup>3</sup> / <sub>8</sub> | 20<br>2 <sup>5</sup> / <sub>32</sub> | 23<br>2 <sup>9</sup> / <sub>32</sub> | 21<br>1 <sup>13</sup> / <sub>16</sub> | 112<br>4 <sup>13</sup> / <sub>32</sub> | 65<br>2 <sup>9</sup> / <sub>16</sub> | 43.7<br>1.720         | 11<br>0.433   | M16<br><br><br><br>5 <sup>5</sup> / <sub>8</sub> |
| 55<br>2<br>2 <sup>1</sup> / <sub>16</sub><br>2 <sup>1</sup> / <sub>8</sub><br>2 <sup>3</sup> / <sub>16</sub>                             | JELPL211D1W3<br>JELPL211-200D1W3<br>JELPL211-201D1W3<br>JELPL211-202D1W3<br>JELPL211-203D1W3 | 61.91<br>2 <sup>7</sup> / <sub>16</sub>  | 219<br>8 <sup>5</sup> / <sub>8</sub>   | 171<br>6 <sup>23</sup> / <sub>32</sub> | 60<br>2 <sup>3</sup> / <sub>8</sub> | 20<br>2 <sup>5</sup> / <sub>32</sub> | 23<br>2 <sup>9</sup> / <sub>32</sub> | 23<br>2 <sup>9</sup> / <sub>32</sub>  | 124<br>4 <sup>7</sup> / <sub>8</sub>   | 65<br>2 <sup>9</sup> / <sub>16</sub> | 48.4<br>1.906         | 12<br>0.472   | M16<br><br><br><br>5 <sup>5</sup> / <sub>8</sub> |
| 60<br>2 <sup>1</sup> / <sub>4</sub><br>2 <sup>5</sup> / <sub>16</sub><br>2 <sup>3</sup> / <sub>8</sub><br>2 <sup>7</sup> / <sub>16</sub> | JELPL212D1W3<br>JELPL212-204D1W3<br>JELPL212-205D1W3<br>JELPL212-206D1W3<br>JELPL212-207D1W3 | 68.26<br>2 <sup>11</sup> / <sub>16</sub> | 241<br>9 <sup>1</sup> / <sub>2</sub>   | 184<br>7 <sup>1</sup> / <sub>4</sub>   | 70<br>2 <sup>3</sup> / <sub>4</sub> | 20<br>2 <sup>5</sup> / <sub>32</sub> | 23<br>2 <sup>9</sup> / <sub>32</sub> | 25<br>3 <sup>1</sup> / <sub>32</sub>  | 136<br>5 <sup>11</sup> / <sub>32</sub> | 70<br>2 <sup>3</sup> / <sub>4</sub>  | 53.1<br>2.091         | 13.5<br>0.531 | M16<br><br><br><br>5 <sup>5</sup> / <sub>8</sub> |

Remarks: 1) JELPL201 to JELPL205 has solid base.

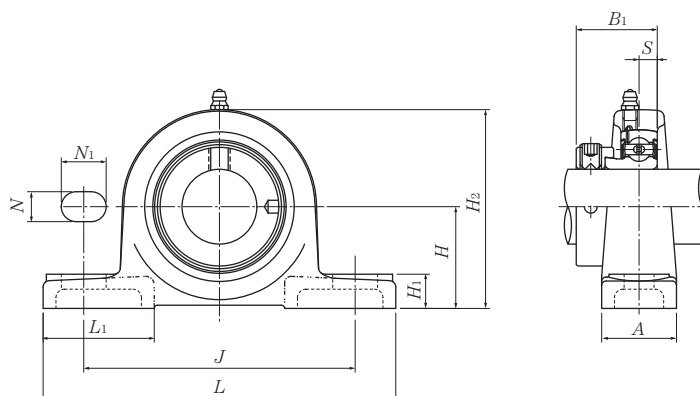
2) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

3) JELPL208 has the same dimension as JELPL208.

Note: Please refer to page 36 for size of grease fitting.

| Bearing number <sup>2)</sup> | Housing <sup>2)</sup><br>number | Mass<br>(approx.) |    |
|------------------------------|---------------------------------|-------------------|----|
|                              |                                 | kg                | lb |
| JEL209D1W3                   | PL209D1                         | 2.2               |    |
| JEL209-110D1W3               | PL209D1                         |                   |    |
| JEL209-111D1W3               | PL209D1                         | 4.9               |    |
| JEL209-112D1W3               | PL209D1                         |                   |    |
| JEL210D1W3                   | PL210D1                         | 2.8               |    |
| JEL210-113D1W3               | PL210D1                         |                   |    |
| JEL210-114D1W3               | PL210D1                         | 6.2               |    |
| JEL210-115D1W3               | PL210D1                         |                   |    |
| JEL210-200D1W3               | PL210D1                         |                   |    |
| JEL211D1W3                   | PL211D1                         | 3.5               |    |
| JEL211-200D1W3               | PL211D1                         |                   |    |
| JEL211-201D1W3               | PL211D1                         | 7.7               |    |
| JEL211-202D1W3               | PL211D1                         |                   |    |
| JEL211-203D1W3               | PL211D1                         |                   |    |
| JEL212D1W3                   | PL212D1                         | 4.7               |    |
| JEL212-204D1W3               | PL212D1                         |                   |    |
| JEL212-205D1W3               | PL212D1                         | 10                |    |
| JEL212-206D1W3               | PL212D1                         |                   |    |
| JEL212-207D1W3               | PL212D1                         |                   |    |

**Light pillow blocks cast housing**  
**Eccentric locking collar type**



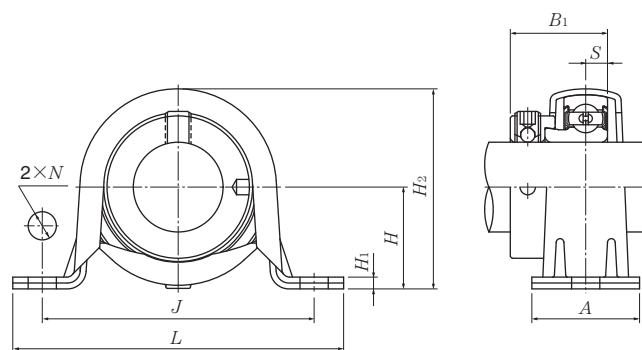
| Shaft<br>dia.                            | Unit number <sup>1)</sup>                                                                                                       | Nominal dimensions |               |               |              |            |                       |                       |                       |                       |                       |              | Bolt<br>size      |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------|---------------|--------------|------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------|-------------------|
|                                          |                                                                                                                                 | mm                 |               |               |              |            |                       | inch                  |                       |                       |                       |              |                   |
|                                          |                                                                                                                                 | <i>H</i>           | <i>L</i>      | <i>J</i>      | <i>A</i>     | <i>N</i>   | <i>N</i> <sub>1</sub> | <i>H</i> <sub>1</sub> | <i>H</i> <sub>2</sub> | <i>L</i> <sub>1</sub> | <i>B</i> <sub>1</sub> | <i>S</i>     |                   |
| <b>12</b><br>1½                          | <b>AELPB201D1W3</b><br><b>AELPB201-008D1W3</b>                                                                                  | 30.2<br>1⅜         | 114<br>4½     | 87<br>3⅞      | 25<br>3⅓     | 11<br>7⁄16 | 16<br>⅝               | 12<br>15⁄32           | 57<br>2¼              | 38<br>1½              | 28.6<br>1.126         | 6.5<br>0.256 | <b>M8</b><br>5⁄16 |
| <b>15</b><br>9⁄16<br>⅝                   | <b>AELPB202D1W3</b><br><b>AELPB202-009D1W3</b><br><b>AELPB202-010D1W3</b>                                                       | 30.2<br>1⅜         | 114<br>4½     | 87<br>3⅞      | 25<br>3⅓     | 11<br>7⁄16 | 16<br>⅝               | 12<br>15⁄32           | 57<br>2¼              | 38<br>1½              | 28.6<br>1.126         | 6.5<br>0.256 | <b>M8</b><br>5⁄16 |
| <b>17</b><br>1⅞                          | <b>AELPB203D1W3</b><br><b>AELPB203-011D1W3</b>                                                                                  | 30.2<br>1⅜         | 114<br>4½     | 87<br>3⅞      | 25<br>3⅓     | 11<br>7⁄16 | 16<br>⅝               | 12<br>15⁄32           | 57<br>2¼              | 38<br>1½              | 28.6<br>1.126         | 6.5<br>0.256 | <b>M8</b><br>5⁄16 |
| <b>20</b><br>¾                           | <b>AELPB204D1W3</b><br><b>AELPB204-012D1W3</b>                                                                                  | 33.3<br>1⅝         | 125<br>4²⁹⁄₃₂ | 97<br>3¹³⁄₁₆  | 27<br>1⅞     | 11<br>7⁄16 | 16<br>⅝               | 13<br>½               | 65<br>2⁹⁄₁₆           | 40<br>1⁹⁄₁₆           | 31<br>1.220           | 7.5<br>0.295 | <b>M8</b><br>5⁄16 |
| <b>25</b><br>1⅜<br>7⁄8<br>1⅝<br><b>1</b> | <b>AELPB205D1W3</b><br><b>AELPB205-013D1W3</b><br><b>AELPB205-014D1W3</b><br><b>AELPB205-015D1W3</b><br><b>AELPB205-100D1W3</b> | 36.5<br>1⅞         | 130<br>5⅛     | 100<br>3¹⁵⁄₁₆ | 29<br>1⅝     | 11<br>7⁄16 | 16<br>⅝               | 13<br>½               | 71<br>2²⁵⁄₃₂          | 42<br>1²¹⁄₃₂          | 31<br>1.220           | 7.5<br>0.295 | <b>M8</b><br>5⁄16 |
| <b>30</b><br>1⅞<br>1⅞<br>1⅜<br>1¼        | <b>AELPB206D1W3</b><br><b>AELPB206-101D1W3</b><br><b>AELPB206-102D1W3</b><br><b>AELPB206-103D1W3</b><br><b>AELPB206-104D1W3</b> | 42.9<br>1⅞         | 156<br>6⅝     | 120<br>4²³⁄₃₂ | 33<br>1⅝     | 14<br>9⁄16 | 21<br>1³⁄16           | 14<br>9⁄16            | 83<br>3⁹⁄₃₂           | 52<br>2⅞              | 35.7<br>1.406         | 9<br>0.354   | <b>M12</b><br>½   |
| <b>35</b><br>1¼<br>1⅝<br>1⅜<br>1⅞        | <b>AELPB207D1W3</b><br><b>AELPB207-104D1W3</b><br><b>AELPB207-105D1W3</b><br><b>AELPB207-106D1W3</b><br><b>AELPB207-107D1W3</b> | 47.6<br>1⅞         | 165<br>6½     | 127<br>5      | 35<br>1⅜     | 14<br>9⁄16 | 21<br>1³⁄16           | 16<br>⅝               | 93<br>3²¹⁄₃₂          | 52<br>2⅞              | 38.9<br>1.531         | 9.5<br>0.374 | <b>M12</b><br>½   |
| <b>40</b><br>1½<br>1⅞                    | <b>AELPB208D1W3</b><br><b>AELPB208-108D1W3</b><br><b>AELPB208-109D1W3</b>                                                       | 50.8<br>2          | 184<br>7¼     | 140<br>5½     | 37<br>1¹⁵⁄₃₂ | 14<br>9⁄16 | 22<br>7⁄8             | 18<br>²³⁄₃₂           | 102<br>4⅓             | 52<br>2⅞              | 43.7<br>1.720         | 11<br>0.433  | <b>M12</b><br>½   |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

| Bearing number <sup>1)</sup> | Housing <sup>1)</sup><br>number | Mass<br>(approx.) |    |
|------------------------------|---------------------------------|-------------------|----|
|                              |                                 | kg                | lb |
| AEL201D1W3                   | PB201D1                         | 0.4               |    |
| AEL201-008D1W3               | PB201D1                         | 0.9               |    |
| AEL202D1W3                   | PB201D1                         | 0.4               |    |
| AEL202-009D1W3               | PB201D1                         | 0.9               |    |
| AEL202-010D1W3               |                                 |                   |    |
| AEL203D1W3                   | PB201D1                         | 0.4               |    |
| AEL203-011D1W3               | PB201D1                         | 0.9               |    |
| AEL204D1W3                   | PB204D1                         | 0.6               |    |
| AEL204-012D1W3               | PB204D1                         | 1.3               |    |
| AEL205D1W3                   | PB205D1                         | 0.7               |    |
| AEL205-013D1W3               |                                 |                   |    |
| AEL205-014D1W3               | PB205D1                         | 1.5               |    |
| AEL205-015D1W3               |                                 |                   |    |
| AEL205-100D1W3               |                                 |                   |    |
| AEL206D1W3                   | PB206D1                         | 1.1               |    |
| AEL206-101D1W3               |                                 |                   |    |
| AEL206-102D1W3               | PB206D1                         | 2.4               |    |
| AEL206-103D1W3               |                                 |                   |    |
| AEL206-104D1W3               |                                 |                   |    |
| AEL207D1W3                   | PB207D1                         | 1.4               |    |
| AEL207-104D1W3               |                                 |                   |    |
| AEL207-105D1W3               | PB207D1                         | 3.1               |    |
| AEL207-106D1W3               |                                 |                   |    |
| AEL207-107D1W3               |                                 |                   |    |
| AEL208D1W3                   | PB208D1                         | 2.0               |    |
| AEL208-108D1W3               | PB208D1                         | 4.4               |    |
| AEL208-109D1W3               |                                 |                   |    |

**Pillow blocks pressed steel housing**  
**Eccentric locking collar type**

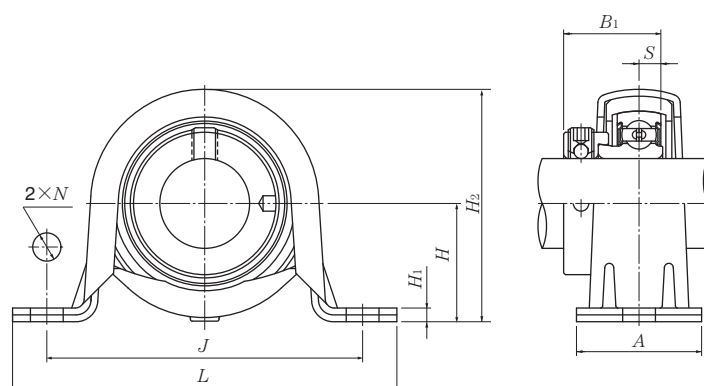


| Shaft<br>dia.                 | Unit number                                                                        | Nominal dimensions |           |           |             |               |                |                |                |              | Bolt<br>size | Bearing number                                                           |
|-------------------------------|------------------------------------------------------------------------------------|--------------------|-----------|-----------|-------------|---------------|----------------|----------------|----------------|--------------|--------------|--------------------------------------------------------------------------|
| mm<br>inch                    |                                                                                    | mm                 |           |           |             |               | inch           |                |                |              | mm<br>inch   |                                                                          |
|                               |                                                                                    | H                  | L         | J         | A           | N             | H <sub>1</sub> | H <sub>2</sub> | B <sub>1</sub> | S            |              |                                                                          |
| 12<br>½                       | AELPP201W3<br>AELPP201-008W3                                                       | 22.2<br>7⁄8        | 86<br>3⅜  | 68<br>2⅞  | 25<br>31⁄32 | 9.5<br>⅜      | 3.2<br>0.126   | 43.8<br>1⅔     | 28.6<br>1.126  | 6.5<br>0.256 | M 8<br>5⁄16  | AEL201W3<br>AEL201-008W3                                                 |
| 15<br>9⁄16<br>5⁄8             | AELPP202W3<br>AELPP202-009W3<br>AELPP202-010W3                                     | 22.2<br>7⁄8        | 86<br>3⅜  | 68<br>2⅞  | 25<br>31⁄32 | 9.5<br>⅜      | 3.2<br>0.126   | 43.8<br>1⅔     | 28.6<br>1.126  | 6.5<br>0.256 | M 8<br>5⁄16  | AEL202W3<br>AEL202-009W3<br>AEL202-010W3                                 |
| 17<br>1⅞                      | AELPP203W3<br>AELPP203-011W3                                                       | 22.2<br>7⁄8        | 86<br>3⅜  | 68<br>2⅞  | 25<br>31⁄32 | 9.5<br>⅜      | 3.2<br>0.126   | 43.8<br>1⅔     | 28.6<br>1.126  | 6.5<br>0.256 | M 8<br>5⁄16  | AEL203W3<br>AEL203-011W3                                                 |
| 20<br>¾                       | AELPP204W3<br>AELPP204-012W3                                                       | 25.4<br>1          | 98<br>3⅔  | 76<br>3   | 32<br>1¼    | 9.5<br>⅜      | 3.2<br>0.126   | 50.5<br>2      | 31<br>1.220    | 7.5<br>0.295 | M 8<br>5⁄16  | AEL204W3<br>AEL204-012W3                                                 |
| 25<br>1⅜<br>7⁄8<br>15⁄16<br>1 | AELPP205W3<br>AELPP205-013W3<br>AELPP205-014W3<br>AELPP205-015W3<br>AELPP205-100W3 | 28.6               | 108       | 86        | 32          | 11.5          | 4              | 56.6           | 31             | 7.5          | M10          | AEL205W3<br>AEL205-013W3<br>AEL205-014W3<br>AEL205-015W3<br>AEL205-100W3 |
| 30<br>1⅞<br>1⅝<br>1⅜<br>1¼    | AELPP206W3<br>AELPP206-101W3<br>AELPP206-102W3<br>AELPP206-103W3<br>AELPP206-104W3 | 33.3<br>1⅝         | 117<br>4⅒ | 95<br>3¾  | 38<br>1½    | 11.5<br>29⁄64 | 4<br>0.157     | 66.3<br>2⅝     | 35.7<br>1.406  | 9<br>0.354   | M10<br>⅜     | AEL206W3<br>AEL206-101W3<br>AEL206-102W3<br>AEL206-103W3<br>AEL206-104W3 |
| 35<br>1¼<br>1⅝<br>1⅜<br>1⅞    | AELPP207W3<br>AELPP207-104W3<br>AELPP207-105W3<br>AELPP207-106W3<br>AELPP207-107W3 | 39.7<br>1⅞         | 129<br>5⅜ | 106<br>4⅜ | 42<br>1⅔    | 11.5<br>29⁄64 | 4.6<br>0.181   | 78<br>3⅞       | 38.9<br>1.531  | 9.5<br>0.374 | M10<br>⅜     | AEL207W3<br>AEL207-104W3<br>AEL207-105W3<br>AEL207-106W3<br>AEL207-107W3 |

Remarks: 1) The permissible load only applies in applications where the load is stable and the speed is 2400 min<sup>-1</sup> or less.  
The mounting surface should be flat.

| Housing<br>number | Max. load <sup>1)</sup><br>recommended |       | Mass<br>(approx.) |  |
|-------------------|----------------------------------------|-------|-------------------|--|
|                   | kg lb                                  |       | N lbf             |  |
|                   | radial                                 | axial |                   |  |
| PP203             | 2 000                                  | 800   | 0.2               |  |
| PP203             | 440                                    | 160   | 0.4               |  |
| PP203             | 2 000                                  | 800   | 0.2               |  |
| PP203             | 440                                    | 160   | 0.4               |  |
| PP203             | 2 000                                  | 800   | 0.2               |  |
| PP203             | 440                                    | 160   | 0.4               |  |
| PP204             | 2 500                                  | 1 000 | 0.3               |  |
| PP204             | 550                                    | 200   | 0.7               |  |
| PP205             | 3 500                                  | 1 400 | 0.3               |  |
| PP205             |                                        |       |                   |  |
| PP205             | 770                                    | 280   | 0.7               |  |
| PP205             |                                        |       |                   |  |
| PP205             |                                        |       |                   |  |
| PP206             | 4 000                                  | 1 600 | 0.5               |  |
| PP206             |                                        |       |                   |  |
| PP206             | 880                                    | 320   | 1.1               |  |
| PP206             |                                        |       |                   |  |
| PP206             |                                        |       |                   |  |
| PP207             | 4 500                                  | 1 800 | 0.8               |  |
| PP207             |                                        |       |                   |  |
| PP207             | 990                                    | 360   | 1.8               |  |
| PP207             |                                        |       |                   |  |
| PP207             |                                        |       |                   |  |

**Pillow blocks pressed steel housing with rubber ring**  
**Eccentric locking collar type**



| Shaft<br>dia.                                                                                                          | Unit number                                                                                                                | Nominal dimensions                      |                                        |                                        |                                       |                                          |                       |                                         |                       |              | Bolt<br>size           | Bearing number                                                                  |
|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------|----------------------------------------|---------------------------------------|------------------------------------------|-----------------------|-----------------------------------------|-----------------------|--------------|------------------------|---------------------------------------------------------------------------------|
|                                                                                                                        |                                                                                                                            | mm                                      |                                        |                                        |                                       |                                          | inch                  |                                         |                       |              |                        |                                                                                 |
| mm<br>inch                                                                                                             |                                                                                                                            | <i>H</i>                                | <i>L</i>                               | <i>J</i>                               | <i>A</i>                              | <i>N</i>                                 | <i>H</i> <sub>1</sub> | <i>H</i> <sub>2</sub>                   | <i>B</i> <sub>1</sub> | <i>S</i>     | mm<br>inch             |                                                                                 |
| <b>12</b><br>½                                                                                                         | <b>AELRPP201W3</b><br><b>AELRPP201-008W3</b>                                                                               | 25.4<br>1                               | 98<br>3 <sup>27</sup> / <sub>32</sub>  | 76<br>3                                | 32<br>1¼                              | 9.5<br>⅜                                 | 3.2<br>0.126          | 50.5<br>2                               | 28.6<br>1.126         | 6.5<br>0.256 | M 8<br>⅝ <sub>16</sub> | <b>AEL201W3</b><br>AEL201-008W3                                                 |
| <b>15</b><br>9 <sub>16</sub> / <sub>16</sub><br>5 <sub>8</sub> / <sub>8</sub>                                          | <b>AELRPP202W3</b><br><b>AELRPP202-009W3</b><br><b>AELRPP202-010W3</b>                                                     | 25.4<br>1                               | 98<br>3 <sup>27</sup> / <sub>32</sub>  | 76<br>3                                | 32<br>1¼                              | 9.5<br>⅜                                 | 3.2<br>0.126          | 50.5<br>2                               | 28.6<br>1.126         | 6.5<br>0.256 | M 8<br>⅝ <sub>16</sub> | <b>AEL202W3</b><br>AEL202-009W3<br>AEL202-010W3                                 |
| <b>17</b><br>1 <sub>16</sub> / <sub>16</sub>                                                                           | <b>AELRPP203W3</b><br><b>AELRPP203-011W3</b>                                                                               | 25.4<br>1                               | 98<br>3 <sup>27</sup> / <sub>32</sub>  | 76<br>3                                | 32<br>1¼                              | 9.5<br>⅜                                 | 3.2<br>0.126          | 50.5<br>2                               | 28.6<br>1.126         | 6.5<br>0.256 | M 8<br>⅝ <sub>16</sub> | <b>AEL203W3</b><br>AEL203-011W3                                                 |
| <b>20</b><br>¾                                                                                                         | <b>AELRPP204W3</b><br><b>AELRPP204-012W3</b>                                                                               | 28.6<br>1 <sub>8</sub> / <sub>8</sub>   | 108<br>4¼                              | 86<br>3 <sub>8</sub> / <sub>8</sub>    | 32<br>1¼                              | 11.5<br>29 <sub>64</sub> / <sub>64</sub> | 4<br>0.157            | 56.6<br>2 <sub>32</sub> / <sub>32</sub> | 31<br>1.220           | 7.5<br>0.295 | M10<br>⅜               | <b>AEL204W3</b><br>AEL204-012W3                                                 |
| <b>25</b><br>1 <sub>16</sub> / <sub>16</sub><br>7 <sub>8</sub> / <sub>8</sub><br>15 <sub>16</sub> / <sub>16</sub><br>1 | <b>AELRPP205W3</b><br><b>AELRPP205-013W3</b><br><b>AELRPP205-014W3</b><br><b>AELRPP205-015W3</b><br><b>AELRPP205-100W3</b> | 33.3<br>1 <sub>16</sub> / <sub>16</sub> | 117<br>4 <sup>19</sup> / <sub>32</sub> | 95<br>3¼                               | 38<br>1½                              | 11.5<br>29 <sub>64</sub> / <sub>64</sub> | 4<br>0.157            | 66.3<br>2 <sub>8</sub> / <sub>8</sub>   | 31<br>1.220           | 7.5<br>0.295 | M10<br>⅜               | <b>AEL205W3</b><br>AEL205-013W3<br>AEL205-014W3<br>AEL205-015W3<br>AEL205-100W3 |
| <b>30</b><br>1 <sub>16</sub> / <sub>16</sub><br>1 <sub>8</sub> / <sub>8</sub><br>1 <sub>16</sub> / <sub>16</sub><br>1¼ | <b>AELRPP206W3</b><br><b>AELRPP206-101W3</b><br><b>AELRPP206-102W3</b><br><b>AELRPP206-103W3</b><br><b>AELRPP206-104W3</b> | 39.7<br>1 <sub>16</sub> / <sub>16</sub> | 129<br>5 <sub>32</sub> / <sub>32</sub> | 106<br>4 <sub>16</sub> / <sub>16</sub> | 42<br>1 <sup>21</sup> / <sub>32</sub> | 11.5<br>29 <sub>64</sub> / <sub>64</sub> | 4.6<br>0.181          | 78<br>3 <sub>16</sub> / <sub>16</sub>   | 35.7<br>1.406         | 9<br>0.354   | M10<br>⅜               | <b>AEL206W3</b><br>AEL206-101W3<br>AEL206-102W3<br>AEL206-103W3<br>AEL206-104W3 |

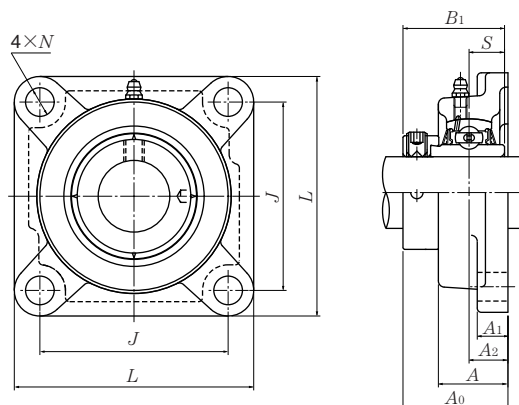
Remarks: 1) The permissible load only applies in applications where the load is stable and the speed is 2400 min<sup>-1</sup> or less.  
The mounting surface should be flat.

2) When an anti-vibration rubber ring is used, the self alignment capability will be reduce.

| Housing number |       | Max. load <sup>1)</sup><br>recommended |       | Mass<br>(approx.) |
|----------------|-------|----------------------------------------|-------|-------------------|
| rubber ring    | steel | kg                                     | lb    | N lbf             |
|                |       | radial                                 | axial |                   |
| R201           | PP204 | 1 000                                  | 200   | 0.2               |
| R201           | PP204 | 220                                    | 40    | 0.4               |
| R201           | PP204 | 1 000                                  | 200   | 0.2               |
| R201           | PP204 | 220                                    | 40    | 0.4               |
| R201           | PP204 | 1 000                                  | 200   | 0.2               |
| R201           | PP204 | 220                                    | 40    | 0.4               |
| R204           | PP205 | 1 150                                  | 200   | 0.3               |
| R204           | PP205 | 250                                    | 40    | 0.7               |
| R205           | PP206 | 1 300                                  | 200   | 0.4               |
| R205           | PP206 |                                        |       |                   |
| R205           | PP206 | 280                                    | 40    | 0.9               |
| R205           | PP206 |                                        |       |                   |
| R205           | PP206 |                                        |       |                   |
| R206           | PP207 | 1 500                                  | 200   | 0.6               |
| R206           | PP207 |                                        |       |                   |
| R206           | PP207 | 330                                    | 40    | 1.3               |
| R206           | PP207 |                                        |       |                   |
| R206           | PP207 |                                        |       |                   |



**Square flanged units cast housing**  
**Eccentric locking collar type**

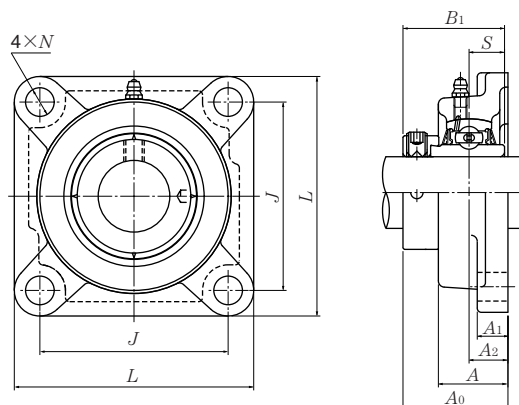


| Shaft<br>dia.                                   | Unit number <sup>1)</sup>                                                                                                       | Nominal dimensions |               |                       |                       |                |               |                       |                       |                | Bolt<br>size | Bearing number                                                                            |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------|-----------------------|-----------------------|----------------|---------------|-----------------------|-----------------------|----------------|--------------|-------------------------------------------------------------------------------------------|
|                                                 |                                                                                                                                 | mm                 |               |                       |                       |                | inch          |                       |                       |                |              |                                                                                           |
|                                                 |                                                                                                                                 | <i>L</i>           | <i>J</i>      | <i>A</i> <sub>2</sub> | <i>A</i> <sub>1</sub> | <i>A</i>       | <i>N</i>      | <i>A</i> <sub>0</sub> | <i>B</i> <sub>1</sub> | <i>S</i>       |              |                                                                                           |
| <b>20</b><br>3/4                                | <b>UELFU204D1W3</b><br><b>UELFU204-012D1W3</b>                                                                                  | 86<br>3 3/8        | 63.5<br>2 1/2 | 19<br>3/4             | 15<br>19/32           | 29.5<br>1 5/32 | 11.5<br>29/64 | 45.6<br>1 51/64       | 43.7<br>1.720         | 17.1<br>0.673  | M10<br>3/8   | <b>UEL204D1W3</b><br>UEL204-012D1W3                                                       |
| <b>25</b><br>1 13/16<br>7/8<br>1 5/16<br>1      | <b>UELFU205D1W3</b><br><b>UELFU205-013D1W3</b><br><b>UELFU205-014D1W3</b><br><b>UELFU205-015D1W3</b><br><b>UELFU205-100D1W3</b> | 96<br>3 25/32      | 70<br>2 3/4   | 19<br>3/4             | 15<br>19/32           | 30<br>1 3/16   | 11.5<br>29/64 | 45.9<br>1 13/16       | 44.4<br>1.748         | 17.45<br>0.687 | M10<br>3/8   | <b>UEL205D1W3</b><br>UEL205-013D1W3<br>UEL205-014D1W3<br>UEL205-015D1W3<br>UEL205-100D1W3 |
| <b>30</b><br>1 1/16<br>1 1/8<br>1 3/16<br>1 1/4 | <b>UELFU206D1W3</b><br><b>UELFU206-101D1W3</b><br><b>UELFU206-102D1W3</b><br><b>UELFU206-103D1W3</b><br><b>UELFU206-104D1W3</b> | 109<br>4 9/32      | 82.5<br>3 1/4 | 20<br>25/32           | 16<br>5/8             | 33<br>1 5/16   | 11.5<br>29/64 | 50.1<br>1 31/32       | 48.4<br>1.906         | 18.25<br>0.719 | M10<br>3/8   | <b>UEL206D1W3</b><br>UEL206-101D1W3<br>UEL206-102D1W3<br>UEL206-103D1W3<br>UEL206-104D1W3 |
| <b>35</b><br>1 1/4<br>1 5/16<br>1 3/8<br>1 7/16 | <b>UELFU207D1W3</b><br><b>UELFU207-104D1W3</b><br><b>UELFU207-105D1W3</b><br><b>UELFU207-106D1W3</b><br><b>UELFU207-107D1W3</b> | 118<br>4 21/32     | 92<br>3 5/8   | 21<br>53/64           | 17<br>21/32           | 36<br>1 13/32  | 14<br>35/64   | 53.3<br>2 3/32        | 51.1<br>2.012         | 18.8<br>0.740  | M12<br>1/2   | <b>UEL207D1W3</b><br>UEL207-104D1W3<br>UEL207-105D1W3<br>UEL207-106D1W3<br>UEL207-107D1W3 |
| <b>40</b><br>1 1/2<br>1 9/16                    | <b>UELFU208D1W3</b><br><b>UELFU208-108D1W3</b><br><b>UELFU208-109D1W3</b>                                                       | 131<br>5 5/32      | 101.5<br>4    | 24<br>15/16           | 17<br>21/32           | 39<br>1 17/32  | 14<br>35/64   | 58.9<br>2 5/16        | 56.3<br>2.217         | 21.4<br>0.843  | M12<br>1/2   | <b>UEL208D1W3</b><br>UEL208-108D1W3<br>UEL208-109D1W3                                     |
| <b>45</b><br>1 5/8<br>1 11/16<br>1 3/4          | <b>UELFU209D1W3</b><br><b>UELFU209-110D1W3</b><br><b>UELFU209-111D1W3</b><br><b>UELFU209-112D1W3</b>                            | 137<br>5 13/32     | 105<br>4 9/64 | 24<br>15/16           | 18<br>23/32           | 40<br>1 9/16   | 16<br>5/8     | 58.9<br>2 5/16        | 56.3<br>2.217         | 21.4<br>0.843  | M14<br>1/2   | <b>UEL209D1W3</b><br>UEL209-110D1W3<br>UEL209-111D1W3<br>UEL209-112D1W3                   |
| <b>50</b><br>1 13/16<br>1 7/8<br>1 15/16<br>2   | <b>UELFU210D1W3</b><br><b>UELFU210-113D1W3</b><br><b>UELFU210-114D1W3</b><br><b>UELFU210-115D1W3</b><br><b>UELFU210-200D1W3</b> | 144<br>5 21/32     | 111<br>4 3/8  | 28<br>1 7/64          | 20<br>25/32           | 46<br>1 13/16  | 18<br>45/64   | 66.1<br>2 39/64       | 62.7<br>2.469         | 24.6<br>0.969  | M16<br>5/8   | <b>UEL210D1W3</b><br>UEL210-113D1W3<br>UEL210-114D1W3<br>UEL210-115D1W3<br>UEL210-200D1W3 |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".  
Note: Please refer to page 36 for size of grease fitting.

| Housing<br>number <sup>1)</sup> | Mass<br>(approx.) |    |
|---------------------------------|-------------------|----|
|                                 | kg                | lb |
| FU204D1                         | 0.8               |    |
| FU204D1                         | 1.8               |    |
| FU205D1                         | 1.0               |    |
| FU205D1                         |                   |    |
| FU205D1                         | 2.2               |    |
| FU205D1                         |                   |    |
| FU205D1                         |                   |    |
| FU206D1                         | 1.4               |    |
| FU206D1                         |                   |    |
| FU206D1                         | 3.1               |    |
| FU206D1                         |                   |    |
| FU206D1                         |                   |    |
| FU207D1                         | 1.7               |    |
| FU207D1                         |                   |    |
| FU207D1                         | 3.8               |    |
| FU207D1                         |                   |    |
| FU207D1                         |                   |    |
| FU208D1                         | 2.2               |    |
| FU208D1                         | 4.9               |    |
| FU208D1                         |                   |    |
| FU209D1                         | 2.4               |    |
| FU209D1                         |                   |    |
| FU209D1                         | 5.3               |    |
| FU209D1                         |                   |    |
| FU210D1                         | 2.9               |    |
| FU210D1                         |                   |    |
| FU210D1                         | 6.4               |    |
| FU210D1                         |                   |    |
| FU210D1                         |                   |    |

**Square flanged units cast housing  
Eccentric locking collar type**

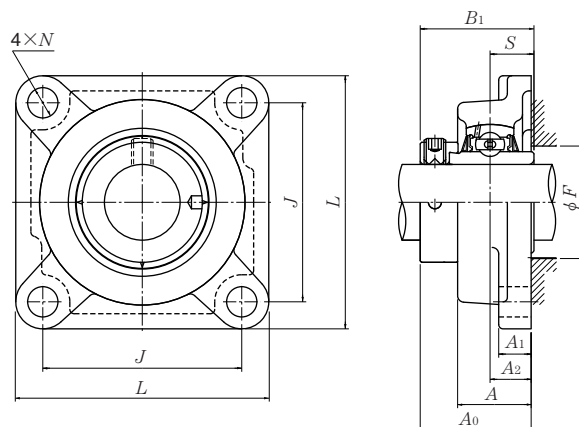


| Shaft<br>dia.                                                                                                                                                   | Unit number <sup>1)</sup>                                                                                                       | Nominal dimensions |            |                       |                       |           |             |                       |                       |              | Bolt<br>size | Bearing number                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------|------------|-----------------------|-----------------------|-----------|-------------|-----------------------|-----------------------|--------------|--------------|-------------------------------------------------------------------------------------------|
|                                                                                                                                                                 |                                                                                                                                 | mm                 |            |                       |                       |           | inch        |                       |                       |              |              |                                                                                           |
|                                                                                                                                                                 |                                                                                                                                 | <i>L</i>           | <i>J</i>   | <i>A</i> <sub>2</sub> | <i>A</i> <sub>1</sub> | <i>A</i>  | <i>N</i>    | <i>A</i> <sub>0</sub> | <i>B</i> <sub>1</sub> | <i>S</i>     |              |                                                                                           |
| <b>55</b><br><b>2</b><br><b>2<sup>1</sup>/<sub>16</sub></b><br><b>2<sup>1</sup>/<sub>8</sub></b><br><b>2<sup>3</sup>/<sub>16</sub></b>                          | <b>UELFU211D1W3</b><br><b>UELFU211-200D1W3</b><br><b>UELFU211-201D1W3</b><br><b>UELFU211-202D1W3</b><br><b>UELFU211-203D1W3</b> | <b>163</b>         | <b>130</b> | <b>31</b>             | <b>21</b>             | <b>49</b> | <b>18</b>   | <b>74.6</b>           | <b>71.4</b>           | <b>27.75</b> | <b>M16</b>   | <b>UEL211D1W3</b><br>UEL211-200D1W3<br>UEL211-201D1W3<br>UEL211-202D1W3<br>UEL211-203D1W3 |
| <b>60</b><br><b>2<sup>1</sup>/<sub>4</sub></b><br><b>2<sup>5</sup>/<sub>16</sub></b><br><b>2<sup>3</sup>/<sub>8</sub></b><br><b>2<sup>7</sup>/<sub>16</sub></b> | <b>UELFU212D1W3</b><br><b>UELFU212-204D1W3</b><br><b>UELFU212-205D1W3</b><br><b>UELFU212-206D1W3</b><br><b>UELFU212-207D1W3</b> | <b>175</b>         | <b>143</b> | <b>34</b>             | <b>21</b>             | <b>53</b> | <b>18</b>   | <b>80.8</b>           | <b>77.8</b>           | <b>30.95</b> | <b>M16</b>   | <b>UEL212D1W3</b><br>UEL212-204D1W3<br>UEL212-205D1W3<br>UEL212-206D1W3<br>UEL212-207D1W3 |
| <b>65</b><br><b>2<sup>1</sup>/<sub>2</sub></b><br><b>2<sup>9</sup>/<sub>16</sub></b>                                                                            | <b>UELFU213D1W3</b><br><b>UELFU213-208D1W3</b><br><b>UELFU213-209D1W3</b>                                                       | <b>187</b>         | <b>149</b> | <b>38</b>             | <b>22</b>             | <b>59</b> | <b>20.5</b> | <b>89.55</b>          | <b>85.7</b>           | <b>34.15</b> | <b>M18</b>   | <b>UEL213D1W3</b><br>UEL213-208D1W3<br>UEL213-209D1W3                                     |
| <b>70</b><br><b>2<sup>5</sup>/<sub>8</sub></b><br><b>2<sup>11</sup>/<sub>16</sub></b><br><b>2<sup>3</sup>/<sub>4</sub></b>                                      | <b>UELFU214D1W3</b><br><b>UELFU214-210D1W3</b><br><b>UELFU214-211D1W3</b><br><b>UELFU214-212D1W3</b>                            | <b>193</b>         | <b>152</b> | <b>38</b>             | <b>22</b>             | <b>62</b> | <b>20.5</b> | <b>89.55</b>          | <b>85.7</b>           | <b>34.15</b> | <b>M18</b>   | <b>UEL214D1W3</b><br>UEL214-210D1W3<br>UEL214-211D1W3<br>UEL214-212D1W3                   |
| <b>75</b><br><b>2<sup>13</sup>/<sub>16</sub></b><br><b>2<sup>7</sup>/<sub>8</sub></b><br><b>2<sup>15</sup>/<sub>16</sub></b><br><b>3</b>                        | <b>UELFU215D1W3</b><br><b>UELFU215-213D1W3</b><br><b>UELFU215-214D1W3</b><br><b>UELFU215-215D1W3</b><br><b>UELFU215-300D1W3</b> | <b>200</b>         | <b>159</b> | <b>41</b>             | <b>22</b>             | <b>64</b> | <b>20.5</b> | <b>95.7</b>           | <b>92</b>             | <b>37.3</b>  | <b>M18</b>   | <b>UEL215D1W3</b><br>UEL215-213D1W3<br>UEL215-214D1W3<br>UEL215-215D1W3<br>UEL215-300D1W3 |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".  
Note: Please refer to page 36 for size of grease fitting.

| Housing<br>number <sup>1)</sup> | Mass<br>(approx.) |
|---------------------------------|-------------------|
|                                 | kg lb             |
| FU211D1                         | 3.9               |
| FU211D1                         |                   |
| FU211D1                         | 8.6               |
| FU211D1                         |                   |
| FU211D1                         |                   |
| FU212D1                         | 4.7               |
| FU212D1                         |                   |
| FU212D1                         | 10                |
| FU212D1                         |                   |
| FU212D1                         |                   |
| FU213D1                         | 6.3               |
| FU213D1                         | 14                |
| FU213D1                         |                   |
| FU214D1                         | 6.7               |
| FU214D1                         |                   |
| FU214D1                         | 15                |
| FU214D1                         |                   |
| FU215D1                         | 7.0               |
| FU215D1                         |                   |
| FU215D1                         | 15                |
| FU215D1                         |                   |
| FU215D1                         |                   |

**Square flanged units cast housing**  
**Eccentric locking collar type**



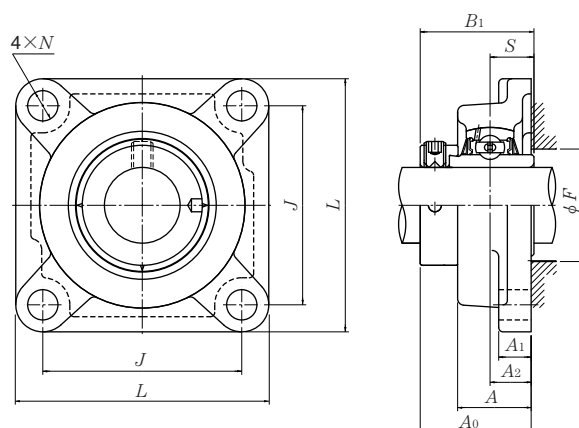
| Shaft<br>dia.<br>mm<br>inch              | Unit number <sup>1)</sup>                                                               | Nominal dimensions |               |                       |                       |               |             |                       |                       |                |                  | Bolt<br>size<br>mm<br>inch |
|------------------------------------------|-----------------------------------------------------------------------------------------|--------------------|---------------|-----------------------|-----------------------|---------------|-------------|-----------------------|-----------------------|----------------|------------------|----------------------------|
|                                          |                                                                                         | mm                 |               |                       |                       |               | inch        |                       |                       |                |                  |                            |
|                                          |                                                                                         | <i>L</i>           | <i>J</i>      | <i>A</i> <sub>2</sub> | <i>A</i> <sub>1</sub> | <i>A</i>      | <i>N</i>    | <i>A</i> <sub>0</sub> | <i>B</i> <sub>1</sub> | <i>S</i>       | <i>F</i><br>min. |                            |
| 20<br>3/4                                | UELF204D1W3<br>UELF204-012D1W3                                                          | 86<br>3 3/8        | 64<br>2 33/64 | 15<br>19/32           | 11<br>7/16            | 25.5<br>1     | 12<br>15/32 | 41.6<br>1 41/64       | 43.7<br>1.720         | 17.1<br>0.673  | 34<br>1 11/32    | M10<br>3/8                 |
| 25<br>1 13/16<br>7/8<br>1 15/16<br>1     | UELF205D1W3<br>UELF205-013D1W3<br>UELF205-014D1W3<br>UELF205-015D1W3<br>UELF205-100D1W3 | 95<br>3 3/4        | 70<br>2 3/4   | 16<br>5/8             | 13<br>1/2             | 27<br>1 1/16  | 12<br>15/32 | 42.9<br>1 11/16       | 44.4<br>1.748         | 17.45<br>0.687 | 38<br>1 1/2      | M10<br>3/8                 |
| 30<br>1 1/16<br>1 1/8<br>1 3/16<br>1 1/4 | UELF206D1W3<br>UELF206-101D1W3<br>UELF206-102D1W3<br>UELF206-103D1W3<br>UELF206-104D1W3 | 108<br>4 1/4       | 83<br>3 17/64 | 18<br>45/64           | 13<br>1/2             | 31<br>1 7/32  | 12<br>15/32 | 48.1<br>1 57/64       | 48.4<br>1.906         | 18.25<br>0.719 | 45<br>1 25/32    | M10<br>3/8                 |
| 35<br>1 1/4<br>1 5/16<br>1 3/8<br>1 7/16 | UELF207D1W3<br>UELF207-104D1W3<br>UELF207-105D1W3<br>UELF207-106D1W3<br>UELF207-107D1W3 | 117<br>4 19/32     | 92<br>3 5/8   | 19<br>3/4             | 15<br>19/32           | 34<br>1 11/32 | 14<br>35/64 | 51.3<br>2 1/64        | 51.1<br>2.012         | 18.8<br>0.740  | 51<br>2          | M12<br>7/16                |
| 40<br>1 1/2<br>1 9/16                    | UELF208D1W3<br>UELF208-108D1W3<br>UELF208-109D1W3                                       | 130<br>5 1/8       | 102<br>4 1/64 | 21<br>53/64           | 15<br>19/32           | 36<br>1 13/32 | 16<br>5/8   | 55.9<br>2 13/64       | 56.3<br>2.217         | 21.4<br>0.843  | 57<br>2 1/4      | M14<br>1/2                 |
| 45<br>1 5/8<br>1 11/16<br>1 3/4          | UELF209D1W3<br>UELF209-110D1W3<br>UELF209-111D1W3<br>UELF209-112D1W3                    | 137<br>5 13/32     | 105<br>4 9/64 | 22<br>55/64           | 16<br>5/8             | 38<br>1 1/2   | 16<br>5/8   | 56.9<br>2 15/64       | 56.3<br>2.217         | 21.4<br>0.843  | 62<br>2 7/16     | M14<br>1/2                 |
| 50<br>1 13/16<br>1 7/8<br>1 15/16<br>2   | UELF210D1W3<br>UELF210-113D1W3<br>UELF210-114D1W3<br>UELF210-115D1W3<br>UELF210-200D1W3 | 143<br>5 5/8       | 111<br>4 3/8  | 22<br>55/64           | 16<br>5/8             | 40<br>1 9/16  | 16<br>5/8   | 60.1<br>2 23/64       | 62.7<br>2.469         | 24.6<br>0.969  | 67<br>2 41/64    | M14<br>1/2                 |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

| Bearing number | Housing number <sup>1)</sup> | Mass (approx.) |    |
|----------------|------------------------------|----------------|----|
|                |                              | kg             | lb |
| UEL204D1W3     | F204D1                       | 0.6            |    |
| UEL204-012D1W3 | F204D1                       | 1.3            |    |
| UEL205D1W3     | F205D1                       | 0.9            |    |
| UEL205-013D1W3 | F205D1                       |                |    |
| UEL205-014D1W3 | F205D1                       | 2.0            |    |
| UEL205-015D1W3 | F205D1                       |                |    |
| UEL205-100D1W3 | F205D1                       |                |    |
| UEL206D1W3     | F206D1                       | 1.2            |    |
| UEL206-101D1W3 | F206D1                       |                |    |
| UEL206-102D1W3 | F206D1                       | 2.6            |    |
| UEL206-103D1W3 | F206D1                       |                |    |
| UEL206-104D1W3 | F206D1                       |                |    |
| UEL207D1W3     | F207D1                       | 1.6            |    |
| UEL207-104D1W3 | F207D1                       |                |    |
| UEL207-105D1W3 | F207D1                       | 3.5            |    |
| UEL207-106D1W3 | F207D1                       |                |    |
| UEL207-107D1W3 | F207D1                       |                |    |
| UEL208D1W3     | F208D1                       | 1.9            |    |
| UEL208-108D1W3 | F208D1                       | 4.2            |    |
| UEL208-109D1W3 | F208D1                       |                |    |
| UEL209D1W3     | F209D1                       | 2.3            |    |
| UEL209-110D1W3 | F209D1                       |                |    |
| UEL209-111     | F209D1                       | 5.1            |    |
| UEL209-112     | F209D1                       |                |    |
| UEL210D1W3     | F210D1                       | 2.7            |    |
| UEL210-113D1W3 | F210D1                       |                |    |
| UEL210-114D1W3 | F210D1                       | 6.0            |    |
| UEL210-115D1W3 | F210D1                       |                |    |
| UEL210-200D1W3 | F210D1                       |                |    |

**Square flanged units cast housing**  
**Eccentric locking collar type**



| Shaft<br>dia.<br>mm<br>inch                                                                                                            | Unit number <sup>1)</sup>                                                                                                  | Nominal dimensions |            |                       |                       |           |           |                       |                       |              |                  | Bolt<br>size<br>mm<br>inch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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|                                                                                                                                        |                                                                                                                            | mm                 |            |                       |                       |           | inch      |                       |                       |              |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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|                                                                                                                                        |                                                                                                                            | <i>L</i>           | <i>J</i>   | <i>A</i> <sub>2</sub> | <i>A</i> <sub>1</sub> | <i>A</i>  | <i>N</i>  | <i>A</i> <sub>0</sub> | <i>B</i> <sub>1</sub> | <i>S</i>     | <i>F</i><br>min. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| <b>55</b><br><b>2</b><br><b>2<sup>1</sup>/<sub>16</sub></b><br><b>2<sup>1</sup>/<sub>8</sub></b><br><b>2<sup>3</sup>/<sub>16</sub></b> | <b>UELF211D1W3</b><br><b>UELF211-200D1W3</b><br><b>UELF211-201D1W3</b><br><b>UELF211-202D1W3</b><br><b>UELF211-203D1W3</b> | <b>162</b>         | <b>130</b> | <b>25</b>             | <b>18</b>             | <b>43</b> | <b>19</b> | <b>68.6</b>           | <b>71.4</b>           | <b>27.75</b> | <b>73</b>        | <b>M16</b><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><b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|

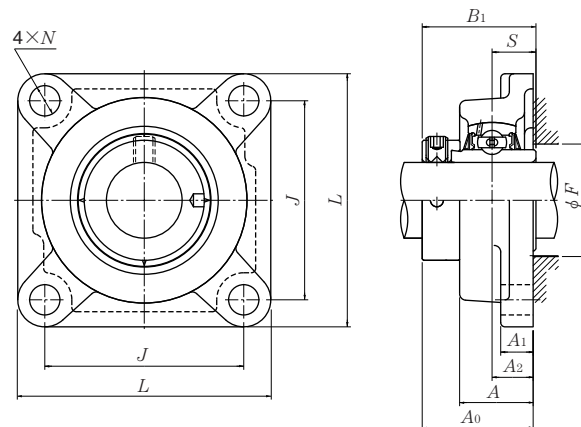
Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

| Bearing number | Housing number <sup>1)</sup> | Mass<br>(approx.) |
|----------------|------------------------------|-------------------|
|                |                              | kg lb             |
| UEL211D1W3     | F211D1                       | 3.6               |
| UEL211-200D1W3 | F211D1                       |                   |
| UEL211-201D1W3 | F211D1                       | 7.9               |
| UEL211-202D1W3 | F211D1                       |                   |
| UEL211-203D1W3 | F211D1                       |                   |
| UEL212D1W3     | F212D1                       | 4.2               |
| UEL212-204D1W3 | F212D1                       |                   |
| UEL212-205D1W3 | F212D1                       | 9.3               |
| UEL212-206D1W3 | F212D1                       |                   |
| UEL212-207D1W3 | F212D1                       |                   |
| UEL213D1W3     | F213D1                       | 6.1               |
| UEL213-208D1W3 | F213D1                       | 13                |
| UEL213-209D1W3 | F213D1                       |                   |
| UEL214D1W3     | F214D1                       | 6.6               |
| UEL214-210D1W3 | F214D1                       |                   |
| UEL214-211D1W3 | F214D1                       | 15                |
| UEL214-212D1W3 | F214D1                       |                   |
| UEL215D1W3     | F215D1                       | 6.9               |
| UEL215-213D1W3 | F215D1                       |                   |
| UEL215-214D1W3 | F215D1                       | 15                |
| UEL215-215D1W3 | F215D1                       |                   |
| UEL215-300D1W3 | F215D1                       |                   |



**Square flanged units cast housing**  
**Eccentric locking collar type**



| Shaft<br>dia.<br>mm<br>inch                                                                                                              | Unit number <sup>1)</sup>                                                               | Nominal dimensions              |                                 |                                |                                |                                 |                                |                                 |                       |          |                                 | Bolt<br>size<br>mm<br>inch    |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------|---------------------------------|--------------------------------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|-----------------------|----------|---------------------------------|-------------------------------|
|                                                                                                                                          |                                                                                         | mm                              |                                 |                                |                                |                                 | inch                           |                                 |                       |          |                                 |                               |
|                                                                                                                                          |                                                                                         | <i>L</i>                        | <i>J</i>                        | <i>A</i> <sub>2</sub>          | <i>A</i> <sub>1</sub>          | <i>A</i>                        | <i>N</i>                       | <i>A</i> <sub>0</sub>           | <i>B</i> <sub>1</sub> | <i>S</i> | <i>F</i><br>min.                |                               |
| 25<br>1 <sup>3</sup> / <sub>16</sub><br>7 <sup>7</sup> / <sub>8</sub><br>1 <sup>5</sup> / <sub>16</sub><br>1                             | UELF305D1W3<br>UELF305-013D1W3<br>UELF305-014D1W3<br>UELF305-015D1W3<br>UELF305-100D1W3 | 110                             | 80                              | 16                             | 13                             | 29                              | 16                             | 46.1                            | 46.8                  | 16.7     | 41                              | M14                           |
|                                                                                                                                          |                                                                                         | 4 <sup>11</sup> / <sub>32</sub> | 3 <sup>5</sup> / <sub>32</sub>  | 5 <sup>5</sup> / <sub>8</sub>  | 1 <sup>1</sup> / <sub>2</sub>  | 1 <sup>5</sup> / <sub>32</sub>  | 5 <sup>5</sup> / <sub>8</sub>  | 1 <sup>13</sup> / <sub>16</sub> | 1.843                 | 0.657    | 1 <sup>39</sup> / <sub>64</sub> | 1 <sup>1</sup> / <sub>2</sub> |
| 30<br>1 <sup>1</sup> / <sub>16</sub><br>1 <sup>1</sup> / <sub>8</sub><br>1 <sup>3</sup> / <sub>16</sub>                                  | UELF306D1W3<br>UELF306-101D1W3<br>UELF306-102D1W3<br>UELF306-103D1W3                    | 125                             | 95                              | 18                             | 15                             | 32                              | 16                             | 50.5                            | 50                    | 17.5     | 49                              | M14                           |
|                                                                                                                                          |                                                                                         | 4 <sup>29</sup> / <sub>32</sub> | 3 <sup>47</sup> / <sub>64</sub> | 4 <sup>5</sup> / <sub>64</sub> | 1 <sup>9</sup> / <sub>32</sub> | 1 <sup>1</sup> / <sub>4</sub>   | 5 <sup>5</sup> / <sub>8</sub>  | 1 <sup>63</sup> / <sub>64</sub> | 1.969                 | 0.689    | 1 <sup>15</sup> / <sub>16</sub> | 1 <sup>1</sup> / <sub>2</sub> |
| 35<br>1 <sup>1</sup> / <sub>4</sub><br>1 <sup>5</sup> / <sub>16</sub><br>1 <sup>3</sup> / <sub>8</sub><br>1 <sup>7</sup> / <sub>16</sub> | UELF307D1W3<br>UELF307-104D1W3<br>UELF307-105D1W3<br>UELF307-106D1W3<br>UELF307-107D1W3 | 135                             | 100                             | 20                             | 16                             | 36                              | 19                             | 53.3                            | 51.6                  | 18.3     | —                               | M16                           |
|                                                                                                                                          |                                                                                         | 5 <sup>5</sup> / <sub>16</sub>  | 3 <sup>15</sup> / <sub>16</sub> | 2 <sup>5</sup> / <sub>32</sub> | 5 <sup>5</sup> / <sub>8</sub>  | 1 <sup>13</sup> / <sub>32</sub> | 3 <sup>3</sup> / <sub>4</sub>  | 2 <sup>3</sup> / <sub>32</sub>  | 2.031                 | 0.720    | —                               | 5 <sup>5</sup> / <sub>8</sub> |
| 40<br>1 <sup>1</sup> / <sub>2</sub><br>1 <sup>9</sup> / <sub>16</sub>                                                                    | UELF308D1W3<br>UELF308-108D1W3<br>UELF308-109D1W3                                       | 150                             | 112                             | 23                             | 17                             | 40                              | 19                             | 60.3                            | 57.1                  | 19.8     | —                               | M16                           |
|                                                                                                                                          |                                                                                         | 5 <sup>29</sup> / <sub>32</sub> | 4 <sup>13</sup> / <sub>32</sub> | 2 <sup>9</sup> / <sub>32</sub> | 2 <sup>1</sup> / <sub>32</sub> | 1 <sup>9</sup> / <sub>16</sub>  | 3 <sup>3</sup> / <sub>4</sub>  | 2 <sup>3</sup> / <sub>8</sub>   | 2.248                 | 0.780    | —                               | 5 <sup>5</sup> / <sub>8</sub> |
| 45<br>1 <sup>5</sup> / <sub>8</sub><br>1 <sup>11</sup> / <sub>16</sub><br>1 <sup>3</sup> / <sub>4</sub>                                  | UELF309D1W3<br>UELF309-110D1W3<br>UELF309-111D1W3<br>UELF309-112D1W3                    | 160                             | 125                             | 25                             | 18                             | 44                              | 19                             | 63.9                            | 58.7                  | 19.8     | —                               | M16                           |
|                                                                                                                                          |                                                                                         | 6 <sup>5</sup> / <sub>16</sub>  | 4 <sup>59</sup> / <sub>64</sub> | 6 <sup>3</sup> / <sub>64</sub> | 2 <sup>3</sup> / <sub>32</sub> | 1 <sup>23</sup> / <sub>32</sub> | 3 <sup>3</sup> / <sub>4</sub>  | 2 <sup>33</sup> / <sub>64</sub> | 2.311                 | 0.780    | —                               | 5 <sup>5</sup> / <sub>8</sub> |
| 50<br>1 <sup>13</sup> / <sub>16</sub><br>1 <sup>7</sup> / <sub>8</sub><br>1 <sup>15</sup> / <sub>16</sub>                                | UELF310D1W3<br>UELF310-113D1W3<br>UELF310-114D1W3<br>UELF310-115D1W3                    | 175                             | 132                             | 28                             | 19                             | 48                              | 23                             | 70                              | 66.6                  | 24.6     | —                               | M20                           |
|                                                                                                                                          |                                                                                         | 6 <sup>7</sup> / <sub>8</sub>   | 5 <sup>13</sup> / <sub>64</sub> | 1 <sup>7</sup> / <sub>64</sub> | 3 <sup>3</sup> / <sub>4</sub>  | 1 <sup>7</sup> / <sub>8</sub>   | 2 <sup>9</sup> / <sub>32</sub> | 2 <sup>3</sup> / <sub>4</sub>   | 2.622                 | 0.969    | —                               | 3 <sup>3</sup> / <sub>4</sub> |
| 55<br>2<br>2 <sup>1</sup> / <sub>16</sub><br>2 <sup>1</sup> / <sub>8</sub><br>2 <sup>3</sup> / <sub>16</sub>                             | UELF311D1W3<br>UELF311-200D1W3<br>UELF311-201D1W3<br>UELF311-202D1W3<br>UELF311-203D1W3 | 185                             | 140                             | 30                             | 20                             | 52                              | 23                             | 75.2                            | 73                    | 27.8     | —                               | M20                           |
|                                                                                                                                          |                                                                                         | 7 <sup>9</sup> / <sub>32</sub>  | 5 <sup>33</sup> / <sub>64</sub> | 1 <sup>3</sup> / <sub>16</sub> | 2 <sup>5</sup> / <sub>32</sub> | 2 <sup>1</sup> / <sub>16</sub>  | 2 <sup>9</sup> / <sub>32</sub> | 2 <sup>61</sup> / <sub>64</sub> | 2.874                 | 1.094    | —                               | 3 <sup>3</sup> / <sub>4</sub> |

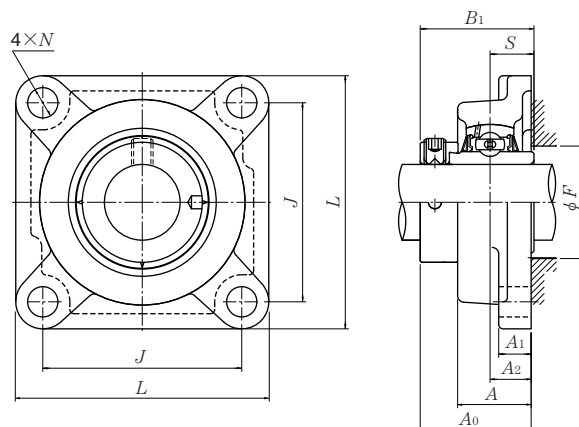
Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1"

2) Inner race face does not protrude from the housing face except UELF305 and UELF316.

Note: Please refer to page 36 for size of grease fitting.

| Bearing number | Housing number <sup>1)</sup> | Mass (approx.) |    |
|----------------|------------------------------|----------------|----|
|                |                              | kg             | lb |
| UEL305D1W3     | F305D1                       | 1.2            |    |
| UEL305-013D1W3 | F305D1                       |                |    |
| UEL305-014D1W3 | F305D1                       | 2.6            |    |
| UEL305-015D1W3 | F305D1                       |                |    |
| UEL305-100D1W3 | F305D1                       |                |    |
| UEL306D1W3     | F306D1                       | 1.8            |    |
| UEL306-101D1W3 | F306D1                       |                |    |
| UEL306-102D1W3 | F306D1                       | 4.0            |    |
| UEL306-103D1W3 | F306D1                       |                |    |
| UEL307D1W3     | F307D1                       | 2.2            |    |
| UEL307-104D1W3 | F307D1                       |                |    |
| UEL307-105D1W3 | F307D1                       | 4.9            |    |
| UEL307-106D1W3 | F307D1                       |                |    |
| UEL307-107D1W3 | F307D1                       |                |    |
| UEL308D1W3     | F308D1                       | 2.9            |    |
| UEL308-108D1W3 | F308D1                       | 6.4            |    |
| UEL308-109D1W3 | F308D1                       |                |    |
| UEL309D1W3     | F309D1                       | 3.6            |    |
| UEL309-110D1W3 | F309D1                       |                |    |
| UEL309-111D1W3 | F309D1                       | 7.9            |    |
| UEL309-112D1W3 | F309D1                       |                |    |
| UEL310D1W3     | F310D1                       | 4.6            |    |
| UEL310-113D1W3 | F310D1                       |                |    |
| UEL310-114D1W3 | F310D1                       | 10             |    |
| UEL310-115D1W3 | F310D1                       |                |    |
| UEL311D1W3     | F311D1                       | 5.6            |    |
| UEL311-200D1W3 | F311D1                       |                |    |
| UEL311-201D1W3 | F311D1                       | 12             |    |
| UEL311-202D1W3 | F311D1                       |                |    |
| UEL311-203D1W3 | F311D1                       |                |    |

**Square flanged units cast housing**  
**Eccentric locking collar type**



| Shaft<br>dia.<br>mm<br>inch                                                                                           | Unit number <sup>1)</sup>                                                                                                  | Nominal dimensions              |                                 |                                 |                                |                                 |                                |                                 |                       |          |                                 | Bolt<br>size<br>mm<br>inch    |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|-----------------------|----------|---------------------------------|-------------------------------|
|                                                                                                                       |                                                                                                                            | mm                              |                                 |                                 |                                |                                 | inch                           |                                 |                       |          |                                 |                               |
|                                                                                                                       |                                                                                                                            | <i>L</i>                        | <i>J</i>                        | <i>A</i> <sub>2</sub>           | <i>A</i> <sub>1</sub>          | <i>A</i>                        | <i>N</i>                       | <i>A</i> <sub>0</sub>           | <i>B</i> <sub>1</sub> | <i>S</i> | <i>F</i><br>min.                |                               |
| <b>60</b><br>2¼<br>2 <sup>5</sup> / <sub>16</sub><br>2 <sup>3</sup> / <sub>8</sub><br>2 <sup>7</sup> / <sub>16</sub>  | <b>UELF312D1W3</b><br><b>UELF312-204D1W3</b><br><b>UELF312-205D1W3</b><br><b>UELF312-206D1W3</b><br><b>UELF312-207D1W3</b> | 195                             | 150                             | 33                              | 22                             | 56                              | 23                             | 81.45                           | 79.4                  | 30.95    | —                               | M20                           |
|                                                                                                                       |                                                                                                                            | 7 <sup>11</sup> / <sub>16</sub> | 5 <sup>29</sup> / <sub>32</sub> | 1 <sup>19</sup> / <sub>64</sub> | <sup>7</sup> / <sub>8</sub>    | 2 <sup>7</sup> / <sub>32</sub>  | <sup>29</sup> / <sub>32</sub>  | 3 <sup>13</sup> / <sub>64</sub> | 3.126                 | 1.219    | —                               | <sup>3</sup> / <sub>4</sub>   |
| <b>65</b><br>2½<br>2 <sup>9</sup> / <sub>16</sub>                                                                     | <b>UELF313D1W3</b><br><b>UELF313-208D1W3</b><br><b>UELF313-209D1W3</b>                                                     | 208                             | 166                             | 33                              | 22                             | 58                              | 23                             | 86.15                           | 85.7                  | 32.55    | 93                              | M20                           |
|                                                                                                                       |                                                                                                                            | 8 <sup>3</sup> / <sub>16</sub>  | 6 <sup>17</sup> / <sub>32</sub> | 1 <sup>19</sup> / <sub>64</sub> | <sup>7</sup> / <sub>8</sub>    | 2 <sup>9</sup> / <sub>32</sub>  | <sup>29</sup> / <sub>32</sub>  | 3 <sup>25</sup> / <sub>64</sub> | 3.374                 | 1.281    | 3 <sup>21</sup> / <sub>32</sub> | <sup>3</sup> / <sub>4</sub>   |
| <b>70</b><br>2 <sup>5</sup> / <sub>8</sub><br>2 <sup>11</sup> / <sub>16</sub><br>2¾                                   | <b>UELF314D1W3</b><br><b>UELF314-210D1W3</b><br><b>UELF314-211D1W3</b><br><b>UELF314-212D1W3</b>                           | 226                             | 178                             | 36                              | 25                             | 61                              | 25                             | 93.95                           | 92.1                  | 34.15    | —                               | M22                           |
|                                                                                                                       |                                                                                                                            | 8 <sup>29</sup> / <sub>32</sub> | 6 <sup>1</sup> / <sub>64</sub>  | 1 <sup>27</sup> / <sub>64</sub> | <sup>31</sup> / <sub>32</sub>  | 2 <sup>13</sup> / <sub>32</sub> | <sup>63</sup> / <sub>64</sub>  | 3 <sup>45</sup> / <sub>64</sub> | 3.626                 | 1.344    | —                               | <sup>7</sup> / <sub>8</sub>   |
| <b>75</b><br>2 <sup>13</sup> / <sub>16</sub><br>2 <sup>7</sup> / <sub>8</sub><br>2 <sup>15</sup> / <sub>16</sub><br>3 | <b>UELF315D1W3</b><br><b>UELF315-213D1W3</b><br><b>UELF315-214D1W3</b><br><b>UELF315-215D1W3</b><br><b>UELF315-300D1W3</b> | 236                             | 184                             | 39                              | 25                             | 66                              | 25                             | 101.7                           | 100                   | 37.3     | 106                             | M22                           |
|                                                                                                                       |                                                                                                                            | 9 <sup>9</sup> / <sub>32</sub>  | 7¼                              | 1 <sup>17</sup> / <sub>32</sub> | <sup>31</sup> / <sub>32</sub>  | 2 <sup>19</sup> / <sub>32</sub> | <sup>63</sup> / <sub>64</sub>  | 4                               | 3.937                 | 1.469    | 4 <sup>11</sup> / <sub>64</sub> | <sup>7</sup> / <sub>8</sub>   |
| <b>80</b><br>3 <sup>1</sup> / <sub>16</sub><br>3 <sup>1</sup> / <sub>8</sub><br>3 <sup>3</sup> / <sub>16</sub>        | <b>UELF316D1W3</b><br><b>UELF316-301D1W3</b><br><b>UELF316-302D1W3</b><br><b>UELF316-303D1W3</b>                           | 250                             | 196                             | 38                              | 27                             | 68                              | 31                             | 103.9                           | 106.4                 | 40.5     | 112                             | M27                           |
|                                                                                                                       |                                                                                                                            | 9 <sup>27</sup> / <sub>32</sub> | 7 <sup>23</sup> / <sub>32</sub> | 1½                              | 1 <sup>1</sup> / <sub>16</sub> | 2 <sup>11</sup> / <sub>16</sub> | 1 <sup>7</sup> / <sub>32</sub> | 4 <sup>3</sup> / <sub>32</sub>  | 4.189                 | 1.594    | 4 <sup>13</sup> / <sub>32</sub> | 1                             |
| <b>85</b><br>3¼<br>3 <sup>5</sup> / <sub>16</sub><br>3 <sup>7</sup> / <sub>16</sub>                                   | <b>UELF317D1W3</b><br><b>UELF317-304D1W3</b><br><b>UELF317-305D1W3</b><br><b>UELF317-307D1W3</b>                           | 260                             | 204                             | 44                              | 27                             | 74                              | 31                             | 111.45                          | 109.5                 | 42.05    | 119                             | M27                           |
|                                                                                                                       |                                                                                                                            | 10¼                             | 8 <sup>1</sup> / <sub>32</sub>  | 1 <sup>47</sup> / <sub>64</sub> | 1 <sup>1</sup> / <sub>16</sub> | 2 <sup>29</sup> / <sub>32</sub> | 1 <sup>7</sup> / <sub>32</sub> | 4 <sup>25</sup> / <sub>64</sub> | 4.311                 | 1.656    | 4 <sup>11</sup> / <sub>16</sub> | 1                             |
| <b>90</b><br>3 <sup>7</sup> / <sub>16</sub><br>3½                                                                     | <b>UELF318D1W3</b><br><b>UELF318-307D1W3</b><br><b>UELF318-308D1W3</b>                                                     | 280                             | 216                             | 44                              | 30                             | 76                              | 35                             | 116.25                          | 115.9                 | 43.65    | 125                             | M30                           |
|                                                                                                                       |                                                                                                                            | 11 <sup>1</sup> / <sub>32</sub> | 8½                              | 1 <sup>47</sup> / <sub>64</sub> | 1 <sup>3</sup> / <sub>16</sub> | 3                               | 1 <sup>3</sup> / <sub>8</sub>  | 4 <sup>37</sup> / <sub>64</sub> | 4.563                 | 1.719    | 4 <sup>59</sup> / <sub>64</sub> | 1 <sup>1</sup> / <sub>8</sub> |

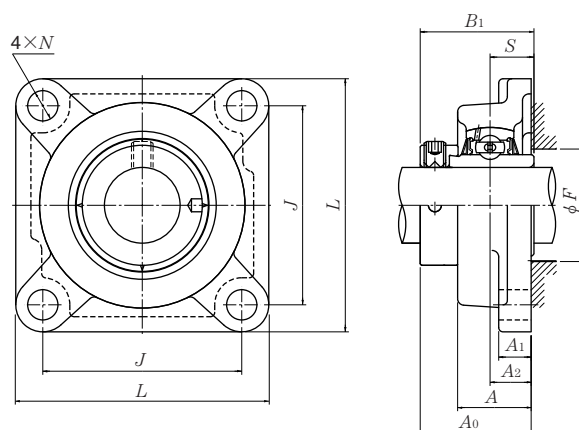
Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

2) Inner race face does not protrude from the housing face except UELF305 and UELF316.

Note: Please refer to page 36 for size of grease fitting.

| Bearing number | Housing number <sup>1)</sup> | Mass (approx.) |    |
|----------------|------------------------------|----------------|----|
|                |                              | kg             | lb |
| UEL312D1W3     | F312D1                       | 6.7            |    |
| UEL312-204D1W3 | F312D1                       |                |    |
| UEL312-205D1W3 | F312D1                       | 15             |    |
| UEL312-206D1W3 | F312D1                       |                |    |
| UEL312-207D1W3 | F312D1                       |                |    |
| UEL313D1W3     | F313D1                       | 8.4            |    |
| UEL313-208D1W3 | F313D1                       | 19             |    |
| UEL313-209D1W3 | F313D1                       |                |    |
| UEL314D1W3     | F314D1                       | 10             |    |
| UEL314-210D1W3 | F314D1                       |                |    |
| UEL314-211D1W3 | F314D1                       | 22             |    |
| UEL314-212D1W3 | F314D1                       |                |    |
| UEL315D1W3     | F315D1                       | 12             |    |
| UEL315-213D1W3 | F315D1                       |                |    |
| UEL315-214D1W3 | F315D1                       | 26             |    |
| UEL315-215D1W3 | F315D1                       |                |    |
| UEL315-300D1W3 | F315D1                       |                |    |
| UEL316D1W3     | F316D1                       | 15             |    |
| UEL316-301D1W3 | F316D1                       |                |    |
| UEL316-302D1W3 | F316D1                       | 33             |    |
| UEL316-303D1W3 | F316D1                       |                |    |
| UEL317D1W3     | F317D1                       | 16             |    |
| UEL317-304D1W3 | F317D1                       |                |    |
| UEL317-305D1W3 | F317D1                       | 35             |    |
| UEL317-307D1W3 | F317D1                       |                |    |
| UEL318D1W3     | F318D1                       | 20             |    |
| UEL318-308D1W3 | F318D1                       | 44             |    |
| UEL318-308D1W3 | F318D1                       |                |    |

**Square flanged units cast housing**  
**Eccentric locking collar type**



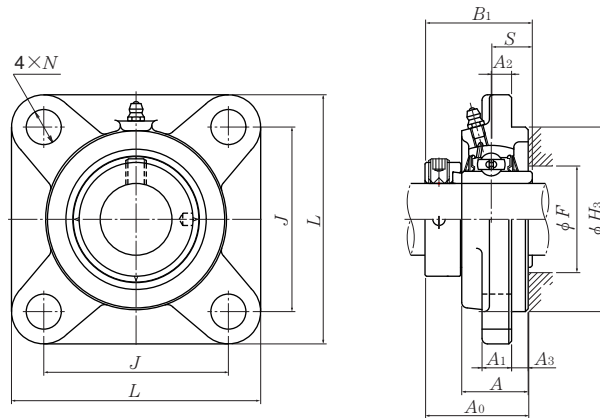
| Shaft<br>dia.                                                                                                   | Unit number <sup>1)</sup>                                                               | Nominal dimensions |          |                       |                       |          |          |                       |                       |          |              |     | Bolt<br>size                                                                       | Bearing number |
|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------|----------|-----------------------|-----------------------|----------|----------|-----------------------|-----------------------|----------|--------------|-----|------------------------------------------------------------------------------------|----------------|
|                                                                                                                 |                                                                                         | mm                 |          |                       |                       |          |          | inch                  |                       |          |              |     |                                                                                    |                |
|                                                                                                                 |                                                                                         | <i>L</i>           | <i>J</i> | <i>A</i> <sub>2</sub> | <i>A</i> <sub>1</sub> | <i>A</i> | <i>N</i> | <i>A</i> <sub>0</sub> | <i>B</i> <sub>1</sub> | <i>S</i> | <i>F</i> min |     |                                                                                    |                |
| 95<br>3 <sup>5</sup> / <sub>8</sub><br>3 <sup>11</sup> / <sub>16</sub><br>3 <sup>3</sup> / <sub>4</sub>         | UELF319D1W3<br>UELF319-310D1W3<br>UELF319-311D1W3<br>UELF319-312D1W3                    | 290                | 228      | 59                    | 30                    | 94       | 35       | 142.4                 | 122.3                 | 38.9     | —            | M30 | UEL319D1W3<br>UEL319-310D1W3<br>UEL319-311D1W3<br>UEL319-312D1W3                   |                |
| 100<br>3 <sup>13</sup> / <sub>16</sub><br>3 <sup>7</sup> / <sub>8</sub><br>3 <sup>15</sup> / <sub>16</sub><br>4 | UELF320D1W3<br>UELF320-313D1W3<br>UELF320-314D1W3<br>UELF320-315D1W3<br>UELF320-400D1W3 | 310                | 242      | 59                    | 32                    | 94       | 38       | 137.6                 | 128.6                 | 50       | —            | M33 | UEL320D1W3<br>UEL320-313D1W3<br>UEL320-314D1W3<br>UEL320-315D1W3<br>UEL320-400D1W3 |                |
| 105                                                                                                             | UELF321D1W3                                                                             | 310                | 242      | 59                    | 32                    | 94       | 38       | 150.3                 | 139.7                 | 48.4     | —            | M33 | UEL321D1W3                                                                         |                |
| 110                                                                                                             | UELF322D1W3                                                                             | 340                | 266      | 60                    | 35                    | 96       | 41       | 152.1                 | 141.3                 | 49.2     | —            | M36 | UEL322D1W3                                                                         |                |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

| Housing<br>number <sup>1)</sup> | Mass<br>(approx.) |    |
|---------------------------------|-------------------|----|
|                                 | kg                | lb |
| F319D1                          | 24                |    |
| F319D1                          |                   |    |
| F319D1                          | 53                |    |
| F319D1                          |                   |    |
| F320D1                          | 29                |    |
| F320D1                          |                   |    |
| F320D1                          | 64                |    |
| F320D1                          |                   |    |
| F320D1                          |                   |    |
| F321D1                          | 28                |    |
| F322D1                          | 37                |    |

**Square flanged units cast housing w/spigot joint**  
**Eccentric locking collar type**



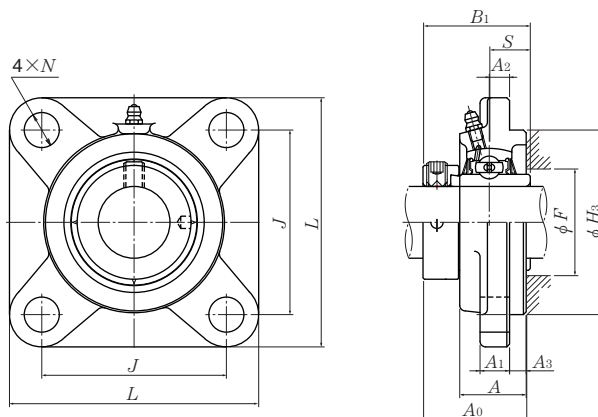
| Shaft<br>dia.                                                                                                                            | Unit number <sup>1)</sup>                                                                    | Nominal dimensions              |                                 |                                  |                                  |                                  |                                  |                                 |                       |                                 |                       |          |                                 | Bolt<br>size                  |
|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------|---------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|---------------------------------|-----------------------|---------------------------------|-----------------------|----------|---------------------------------|-------------------------------|
|                                                                                                                                          |                                                                                              | mm                              |                                 |                                  |                                  |                                  |                                  | inch                            |                       |                                 |                       |          |                                 |                               |
|                                                                                                                                          |                                                                                              | <i>L</i>                        | <i>J</i>                        | <i>A</i> <sub>2</sub>            | <i>N</i>                         | <i>A</i> <sub>3</sub>            | <i>A</i> <sub>1</sub>            | <i>A</i>                        | <i>H</i> <sub>3</sub> | <i>A</i> <sub>0</sub>           | <i>B</i> <sub>1</sub> | <i>S</i> | <i>F</i> <sub>min</sub>         |                               |
| 25<br>1 <sup>3</sup> / <sub>16</sub><br>7 <sup>7</sup> / <sub>8</sub><br>15 <sup>15</sup> / <sub>16</sub><br>1                           | UELFS305D1W3<br>UELFS305-013D1W3<br>UELFS305-014D1W3<br>UELFS305-015D1W3<br>UELFS305-100D1W3 | 110                             | 80                              | 9                                | 16                               | 7                                | 13                               | 29                              | 80                    | 46.1                            | 46.8                  | 16.7     | 42                              | M14                           |
|                                                                                                                                          |                                                                                              | 4 <sup>11</sup> / <sub>32</sub> | 3 <sup>5</sup> / <sub>32</sub>  | 23 <sup>23</sup> / <sub>64</sub> | 5 <sup>5</sup> / <sub>8</sub>    | 9 <sup>9</sup> / <sub>32</sub>   | 1 <sup>1</sup> / <sub>2</sub>    | 1 <sup>9</sup> / <sub>64</sub>  | 3.1496                | 1 <sup>13</sup> / <sub>16</sub> | 1.843                 | 0.657    | 1 <sup>21</sup> / <sub>32</sub> | 1 <sup>1</sup> / <sub>2</sub> |
| 30<br>1 <sup>1</sup> / <sub>16</sub><br>1 <sup>1</sup> / <sub>8</sub><br>1 <sup>3</sup> / <sub>16</sub>                                  | UELFS306D1W3<br>UELFS306-101D1W3<br>UELFS306-102D1W3<br>UELFS306-103D1W3                     | 125                             | 95                              | 10                               | 16                               | 8                                | 15                               | 32                              | 90                    | 50.5                            | 50                    | 17.5     | 51                              | M14                           |
|                                                                                                                                          |                                                                                              | 4 <sup>29</sup> / <sub>32</sub> | 3 <sup>47</sup> / <sub>64</sub> | 25 <sup>25</sup> / <sub>64</sub> | 5 <sup>5</sup> / <sub>8</sub>    | 5 <sup>5</sup> / <sub>16</sub>   | 19 <sup>19</sup> / <sub>32</sub> | 1 <sup>17</sup> / <sub>64</sub> | 3.5433                | 1 <sup>63</sup> / <sub>64</sub> | 1.969                 | 0.689    | 2                               | 1 <sup>1</sup> / <sub>2</sub> |
| 35<br>1 <sup>1</sup> / <sub>4</sub><br>1 <sup>5</sup> / <sub>16</sub><br>1 <sup>3</sup> / <sub>8</sub><br>1 <sup>7</sup> / <sub>16</sub> | UELFS307D1W3<br>UELFS307-104D1W3<br>UELFS307-105D1W3<br>UELFS307-106D1W3<br>UELFS307-107D1W3 | 135                             | 100                             | 11                               | 19                               | 9                                | 16                               | 36                              | 100                   | 53.3                            | 51.6                  | 18.3     | —                               | M16                           |
|                                                                                                                                          |                                                                                              | 5 <sup>5</sup> / <sub>16</sub>  | 3 <sup>15</sup> / <sub>16</sub> | 7 <sup>7</sup> / <sub>16</sub>   | 3 <sup>3</sup> / <sub>4</sub>    | 23 <sup>23</sup> / <sub>64</sub> | 5 <sup>5</sup> / <sub>8</sub>    | 1 <sup>13</sup> / <sub>32</sub> | 3.9370                | 2 <sup>3</sup> / <sub>32</sub>  | 2.031                 | 0.720    | —                               | 5 <sup>5</sup> / <sub>8</sub> |
| 40<br>1 <sup>1</sup> / <sub>2</sub><br>1 <sup>9</sup> / <sub>16</sub>                                                                    | UELFS308D1W3<br>UELFS308-108D1W3<br>UELFS308-109D1W3                                         | 150                             | 112                             | 13                               | 19                               | 10                               | 17                               | 40                              | 115                   | 60.3                            | 57.1                  | 19.8     | —                               | M16                           |
|                                                                                                                                          |                                                                                              | 5 <sup>29</sup> / <sub>32</sub> | 4 <sup>13</sup> / <sub>32</sub> | 33 <sup>33</sup> / <sub>64</sub> | 3 <sup>3</sup> / <sub>4</sub>    | 25 <sup>25</sup> / <sub>64</sub> | 21 <sup>21</sup> / <sub>32</sub> | 1 <sup>9</sup> / <sub>16</sub>  | 4.5276                | 2 <sup>3</sup> / <sub>8</sub>   | 2.248                 | 0.780    | —                               | 5 <sup>5</sup> / <sub>8</sub> |
| 45<br>1 <sup>5</sup> / <sub>8</sub><br>1 <sup>11</sup> / <sub>16</sub><br>1 <sup>3</sup> / <sub>4</sub>                                  | UELFS309D1W3<br>UELFS309-110D1W3<br>UELFS309-111D1W3<br>UELFS309-112D1W3                     | 160                             | 125                             | 14                               | 19                               | 11                               | 18                               | 44                              | 125                   | 63.9                            | 58.7                  | 19.8     | —                               | M16                           |
|                                                                                                                                          |                                                                                              | 6 <sup>5</sup> / <sub>16</sub>  | 4 <sup>59</sup> / <sub>64</sub> | 35 <sup>35</sup> / <sub>64</sub> | 3 <sup>3</sup> / <sub>4</sub>    | 7 <sup>7</sup> / <sub>16</sub>   | 23 <sup>23</sup> / <sub>32</sub> | 1 <sup>47</sup> / <sub>64</sub> | 4.9213                | 2 <sup>33</sup> / <sub>64</sub> | 2.311                 | 0.780    | —                               | 5 <sup>5</sup> / <sub>8</sub> |
| 50<br>1 <sup>13</sup> / <sub>16</sub><br>1 <sup>7</sup> / <sub>8</sub><br>1 <sup>15</sup> / <sub>16</sub>                                | UELFS310D1W3<br>UELFS310-113D1W3<br>UELFS310-114D1W3<br>UELFS310-115D1W3                     | 175                             | 132                             | 16                               | 23                               | 12                               | 19                               | 48                              | 140                   | 70                              | 66.6                  | 24.6     | —                               | M20                           |
|                                                                                                                                          |                                                                                              | 6 <sup>7</sup> / <sub>8</sub>   | 5 <sup>13</sup> / <sub>64</sub> | 5 <sup>5</sup> / <sub>8</sub>    | 29 <sup>29</sup> / <sub>32</sub> | 15 <sup>15</sup> / <sub>32</sub> | 3 <sup>3</sup> / <sub>4</sub>    | 1 <sup>57</sup> / <sub>64</sub> | 5.5118                | 2 <sup>3</sup> / <sub>4</sub>   | 2.622                 | 0.969    | —                               | 3 <sup>3</sup> / <sub>4</sub> |
| 55<br>2<br>2 <sup>1</sup> / <sub>16</sub><br>2 <sup>2</sup> / <sub>8</sub><br>2 <sup>3</sup> / <sub>16</sub>                             | UELFS311D1W3<br>UELFS311-200D1W3<br>UELFS311-201D1W3<br>UELFS311-202D1W3<br>UELFS311-203D1W3 | 185                             | 140                             | 17                               | 23                               | 13                               | 20                               | 52                              | 150                   | 75.2                            | 73                    | 27.8     | —                               | M20                           |
|                                                                                                                                          |                                                                                              | 7 <sup>9</sup> / <sub>32</sub>  | 5 <sup>33</sup> / <sub>64</sub> | 43 <sup>43</sup> / <sub>64</sub> | 29 <sup>29</sup> / <sub>32</sub> | 33 <sup>33</sup> / <sub>64</sub> | 25 <sup>25</sup> / <sub>32</sub> | 2 <sup>3</sup> / <sub>64</sub>  | 5.9055                | 2 <sup>61</sup> / <sub>64</sub> | 2.874                 | 1.094    | —                               | 3 <sup>3</sup> / <sub>4</sub> |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".  
 Note: Please refer to page 36 for size of grease fitting.

| Bearing number | Housing number <sup>1)</sup> | Mass (approx.) |    |
|----------------|------------------------------|----------------|----|
|                |                              | kg             | lb |
| UEL305D1W3     | FS305D1                      | 1.3            |    |
| UEL305-013D1W3 | FS305D1                      |                |    |
| UEL305-014D1W3 | FS305D1                      | 2.9            |    |
| UEL305-015D1W3 | FS305D1                      |                |    |
| UEL305-100D1W3 | FS305D1                      |                |    |
| UEL306D1W3     | FS306D1                      | 1.9            |    |
| UEL306-101D1W3 | FS306D1                      |                |    |
| UEL306-102D1W3 | FS306D1                      | 4.2            |    |
| UEL306-103D1W3 | FS306D1                      |                |    |
| UEL307D1W3     | FS307D1                      | 2.3            |    |
| UEL307-104D1W3 | FS307D1                      |                |    |
| UEL307-105D1W3 | FS307D1                      | 5.1            |    |
| UEL307-106D1W3 | FS307D1                      |                |    |
| UEL307-107D1W3 | FS307D1                      |                |    |
| UEL308D1W3     | FS308D1                      | 3.3            |    |
| UEL308-108D1W3 | FS308D1                      | 7.3            |    |
| UEL308-109D1W3 | FS308D1                      |                |    |
| UEL309D1W3     | FS309D1                      | 4.0            |    |
| UEL309-110D1W3 | FS309D1                      |                |    |
| UEL309-111D1W3 | FS309D1                      | 8.8            |    |
| UEL309-112D1W3 | FS309D1                      |                |    |
| UEL310D1W3     | FS310D1                      | 5.2            |    |
| UEL310-113D1W3 | FS310D1                      |                |    |
| UEL310-114D1W3 | FS310D1                      | 11             |    |
| UEL310-115D1W3 | FS310D1                      |                |    |
| UEL311D1W3     | FS311D1                      | 6.2            |    |
| UEL311-200D1W3 | FS311D1                      |                |    |
| UEL311-201D1W3 | FS311D1                      | 14             |    |
| UEL311-202D1W3 | FS311D1                      |                |    |
| UEL311-203D1W3 | FS311D1                      |                |    |



**Square flanged units cast housing w/spigot joint**  
**Eccentric locking collar type**



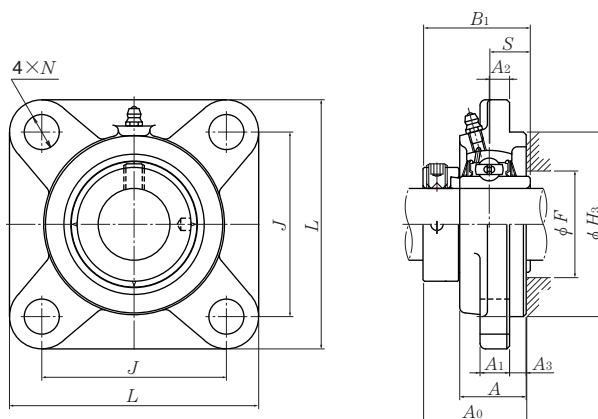
| Shaft<br>dia.                                                                                                         | Unit number <sup>1)</sup>                                                                                                       | Nominal dimensions |          |                       |          |                       |                       |          |                       |                       |                       |          |                         | Bolt<br>size     |
|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------|----------|-----------------------|----------|-----------------------|-----------------------|----------|-----------------------|-----------------------|-----------------------|----------|-------------------------|------------------|
|                                                                                                                       |                                                                                                                                 | mm                 |          |                       |          |                       |                       | inch     |                       |                       |                       |          |                         |                  |
|                                                                                                                       |                                                                                                                                 | <i>L</i>           | <i>J</i> | <i>A</i> <sub>2</sub> | <i>N</i> | <i>A</i> <sub>3</sub> | <i>A</i> <sub>1</sub> | <i>A</i> | <i>H</i> <sub>3</sub> | <i>A</i> <sub>0</sub> | <i>B</i> <sub>1</sub> | <i>S</i> | <i>F</i> <sub>min</sub> | mm<br>inch       |
| <b>60</b><br>2¼<br>2 <sup>5</sup> / <sub>16</sub><br>2 <sup>3</sup> / <sub>8</sub><br>2 <sup>7</sup> / <sub>16</sub>  | <b>UELFS312D1W3</b><br><b>UELFS312-204D1W3</b><br><b>UELFS312-205D1W3</b><br><b>UELFS312-206D1W3</b><br><b>UELFS312-207D1W3</b> | 195                | 150      | 19                    | 23       | 14                    | 22                    | 56       | 160                   | 81.5                  | 79.4                  | 30.95    | —                       | M20<br><br><br>¾ |
| <b>65</b><br>2½<br>2 <sup>9</sup> / <sub>16</sub>                                                                     | <b>UELFS313D1W3</b><br><b>UELFS313-208D1W3</b><br><b>UELFS313-209D1W3</b>                                                       | 208                | 166      | 15                    | 23       | 18                    | 22                    | 58       | 175                   | 86.2                  | 85.7                  | 32.55    | 95                      | M20<br><br>¾     |
| <b>70</b><br>2 <sup>5</sup> / <sub>8</sub><br>2 <sup>11</sup> / <sub>16</sub><br>2¾                                   | <b>UELFS314D1W3</b><br><b>UELFS314-210D1W3</b><br><b>UELFS314-211D1W3</b><br><b>UELFS314-212D1W3</b>                            | 226                | 178      | 18                    | 25       | 18                    | 25                    | 61       | 185                   | 94.0                  | 92.1                  | 34.15    | 102                     | M22<br><br>⅞     |
| <b>75</b><br>2 <sup>13</sup> / <sub>16</sub><br>2 <sup>7</sup> / <sub>8</sub><br>2 <sup>15</sup> / <sub>16</sub><br>3 | <b>UELFS315D1W3</b><br><b>UELFS315-213D1W3</b><br><b>UELFS315-214D1W3</b><br><b>UELFS315-215D1W3</b><br><b>UELFS315-300D1W3</b> | 236                | 184      | 21                    | 25       | 18                    | 25                    | 66       | 200                   | 101.7                 | 100                   | 37.3     | 108                     | M22<br><br>⅞     |
| <b>80</b><br>3 <sup>1</sup> / <sub>16</sub><br>3 <sup>1</sup> / <sub>8</sub><br>3 <sup>3</sup> / <sub>16</sub>        | <b>UELFS316D1W3</b><br><b>UELFS316-301D1W3</b><br><b>UELFS316-302D1W3</b><br><b>UELFS316-303D1W3</b>                            | 250                | 196      | 18                    | 31       | 20                    | 27                    | 68       | 210                   | 103.9                 | 106.4                 | 40.5     | 115                     | M27<br><br>1     |
| <b>85</b><br>3¼<br>3 <sup>5</sup> / <sub>16</sub><br>3 <sup>7</sup> / <sub>16</sub>                                   | <b>UELFS317D1W3</b><br><b>UELFS317-304D1W3</b><br><b>UELFS317-305D1W3</b><br><b>UELFS317-307D1W3</b>                            | 260                | 204      | 24                    | 31       | 20                    | 27                    | 74       | 220                   | 111.5                 | 109.5                 | 42.05    | 122                     | M27<br><br>1     |
| <b>90</b><br>3 <sup>7</sup> / <sub>16</sub><br>3½                                                                     | <b>UELFS318D1W3</b><br><b>UELFS318-307D1W3</b><br><b>UELFS318-308D1W3</b>                                                       | 280                | 216      | 24                    | 35       | 20                    | 30                    | 76       | 240                   | 116.3                 | 115.9                 | 43.65    | 128                     | M30<br><br>1⅛    |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

| Bearing number | Housing number <sup>1)</sup> | Mass (approx.) |    |
|----------------|------------------------------|----------------|----|
|                |                              | kg             | lb |
| UEL312D1W3     | FS312D1                      | 7.4            |    |
| UEL312-204D1W3 | FS312D1                      |                |    |
| UEL312-205D1W3 | FS312D1                      | 16             |    |
| UEL312-206D1W3 | FS312D1                      |                |    |
| UEL312-207D1W3 | FS312D1                      |                |    |
| UEL313D1W3     | FS313D1                      | 9.0            |    |
| UEL313-208D1W3 | FS313D1                      | 20             |    |
| UEL313-209D1W3 | FS313D1                      |                |    |
| UEL314D1W3     | FS314D1                      | 11             |    |
| UEL314-210D1W3 | FS314D1                      |                |    |
| UEL314-211D1W3 | FS314D1                      | 24             |    |
| UEL314-212D1W3 | FS314D1                      |                |    |
| UEL315D1W3     | FS315D1                      | 13             |    |
| UEL315-213D1W3 | FS315D1                      |                |    |
| UEL315-214D1W3 | FS315D1                      | 29             |    |
| UEL315-215D1W3 | FS315D1                      |                |    |
| UEL315-300D1W3 | FS315D1                      |                |    |
| UEL316D1W3     | FS316D1                      | 16             |    |
| UEL316-301D1W3 | FS316D1                      |                |    |
| UEL316-302D1W3 | FS316D1                      | 35             |    |
| UEL316-303D1W3 | FS316D1                      |                |    |
| UEL317D1W3     | FS317D1                      | 18             |    |
| UEL317-304D1W3 | FS317D1                      |                |    |
| UEL317-305D1W3 | FS317D1                      | 40             |    |
| UEL317-307D1W3 | FS317D1                      |                |    |
| UEL318D1W3     | FS318D1                      | 22             |    |
| UEL318-307D1W3 | FS318D1                      | 49             |    |
| UEL318-308D1W3 | FS318D1                      |                |    |

**Square flanged units cast housing w/spigot joint**  
**Eccentric locking collar type**



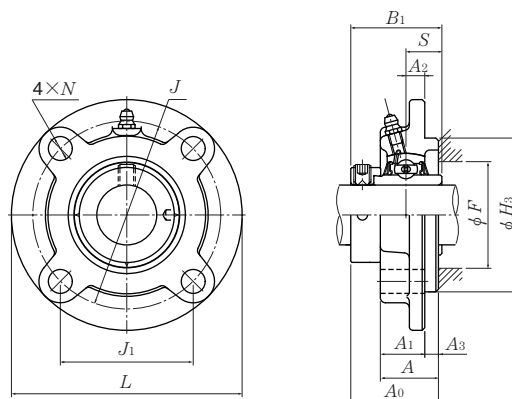
| Shaft<br>dia.                                                                                                                             | Unit number <sup>1)</sup>                                                                                                  | Nominal dimensions               |                                 |                                 |                               |                                |                                |                                 |                       |                                 |                       |          |                         | Bolt<br>size                  |
|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------|---------------------------------|-------------------------------|--------------------------------|--------------------------------|---------------------------------|-----------------------|---------------------------------|-----------------------|----------|-------------------------|-------------------------------|
|                                                                                                                                           |                                                                                                                            | mm                               |                                 |                                 |                               |                                |                                | inch                            |                       |                                 |                       |          |                         |                               |
|                                                                                                                                           |                                                                                                                            | <i>L</i>                         | <i>J</i>                        | <i>A</i> <sub>2</sub>           | <i>N</i>                      | <i>A</i> <sub>3</sub>          | <i>A</i> <sub>1</sub>          | <i>A</i>                        | <i>H</i> <sub>3</sub> | <i>A</i> <sub>0</sub>           | <i>B</i> <sub>1</sub> | <i>S</i> | <i>F</i> <sub>min</sub> | mm<br>inch                    |
| <b>95</b><br><b>3<sup>5</sup>/<sub>8</sub></b><br><b>3<sup>11</sup>/<sub>16</sub></b><br><b>3<sup>3</sup>/<sub>4</sub></b>                | <b>UEFS319D1W3</b><br><b>UEFS319-310D1W3</b><br><b>UEFS319-311D1W3</b><br><b>UEFS319-312D1W3</b>                           | 290                              | 228                             | 39                              | 35                            | 20                             | 30                             | 94                              | 250                   | 142.4                           | 122.3                 | 38.9     | —                       | M30                           |
|                                                                                                                                           |                                                                                                                            | 11 <sup>13</sup> / <sub>32</sub> | 8 <sup>31</sup> / <sub>32</sub> | 1 <sup>17</sup> / <sub>32</sub> | 1 <sup>3</sup> / <sub>8</sub> | 2 <sup>5</sup> / <sub>32</sub> | 1 <sup>3</sup> / <sub>16</sub> | 3 <sup>45</sup> / <sub>64</sub> | 9.8425                | 5 <sup>39</sup> / <sub>64</sub> | 4.815                 | 1.531    | —                       | 1 <sup>1</sup> / <sub>8</sub> |
| <b>100</b><br><b>3<sup>13</sup>/<sub>16</sub></b><br><b>3<sup>7</sup>/<sub>8</sub></b><br><b>3<sup>15</sup>/<sub>16</sub></b><br><b>4</b> | <b>UEFS320D1W3</b><br><b>UEFS320-313D1W3</b><br><b>UEFS320-314D1W3</b><br><b>UEFS320-315D1W3</b><br><b>UEFS320-400D1W3</b> | 310                              | 242                             | 39                              | 38                            | 20                             | 32                             | 94                              | 260                   | 137.6                           | 128.6                 | 50       | —                       | M33                           |
|                                                                                                                                           |                                                                                                                            | 12 <sup>7</sup> / <sub>32</sub>  | 9 <sup>17</sup> / <sub>32</sub> | 1 <sup>17</sup> / <sub>32</sub> | 1 <sup>1</sup> / <sub>2</sub> | 2 <sup>5</sup> / <sub>32</sub> | 1 <sup>1</sup> / <sub>4</sub>  | 3 <sup>45</sup> / <sub>64</sub> | 10.2362               | 5 <sup>27</sup> / <sub>64</sub> | 5.063                 | 1.969    | —                       | 1 <sup>1</sup> / <sub>4</sub> |
| <b>105</b>                                                                                                                                | <b>UEFS321D1W3</b>                                                                                                         | 310                              | 242                             | 39                              | 38                            | 20                             | 32                             | 94                              | 260                   | 150.3                           | 139.7                 | 48.4     | —                       | M33                           |
| <b>110</b>                                                                                                                                | <b>UEFS322D1W3</b>                                                                                                         | 340                              | 266                             | 35                              | 41                            | 25                             | 35                             | 96                              | 300                   | 152.1                           | 141.3                 | 49.2     | —                       | M36                           |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

| Bearing number | Housing <sup>1)</sup><br>number | Mass<br>(approx.) |    |
|----------------|---------------------------------|-------------------|----|
|                |                                 | kg                | lb |
| UEL319D1W3     | FS319D1                         | 26                |    |
| UEL319-310D1W3 | FS319D1                         |                   |    |
| UEL319-311D1W3 | FS319D1                         | 57                |    |
| UEL319-312D1W3 | FS319D1                         |                   |    |
| UEL320D1W3     | FS320D1                         | 31                |    |
| UEL320-313D1W3 | FS320D1                         |                   |    |
| UEL320-314D1W3 | FS320D1                         | 68                |    |
| UEL320-315D1W3 | FS320D1                         |                   |    |
| UEL320-400D1W3 | FS320D1                         |                   |    |
| UEL321D1W3     | FS321D1                         | 31                |    |
| UEL322D1W3     | FS322D1                         | 41                |    |

Round flanged units cast housing w/spigot joint  
Eccentric locking collar type



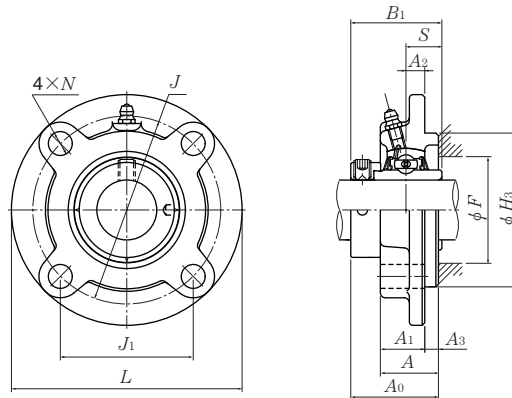
| Shaft<br>dia.                            | Unit number <sup>1)</sup>                                                                    | Nominal dimensions |                |                        |                      |             |                      |                      |               |                      |                      |                      |                |                        | Bolt<br>size |
|------------------------------------------|----------------------------------------------------------------------------------------------|--------------------|----------------|------------------------|----------------------|-------------|----------------------|----------------------|---------------|----------------------|----------------------|----------------------|----------------|------------------------|--------------|
|                                          |                                                                                              | mm                 |                |                        |                      |             |                      |                      | inch          |                      |                      |                      |                |                        |              |
|                                          |                                                                                              | <i>L</i>           | <i>J</i>       | <i>(J<sub>1</sub>)</i> | <i>A<sub>2</sub></i> | <i>N</i>    | <i>A<sub>3</sub></i> | <i>A<sub>1</sub></i> | <i>A</i>      | <i>H<sub>3</sub></i> | <i>A<sub>0</sub></i> | <i>B<sub>1</sub></i> | <i>S</i>       | <i>F<sub>min</sub></i> | mm<br>inch   |
| 20<br>3/4                                | UELFC204D1W3<br>UELFC204-012D1W3                                                             | 100<br>3 15/16     | 78<br>3 5/64   | 55.2<br>2 11/64        | 10<br>25/64          | 12<br>15/32 | 5<br>13/64           | 20.5<br>13/16        | 25.5<br>1     | 62<br>2.4409         | 41.6<br>1 41/64      | 43.7<br>1.720        | 17.1<br>0.673  | 35<br>1 3/8            | M10<br>3/8   |
| 25<br>1 13/16<br>7/8<br>15/16<br>1       | UELFC205D1W3<br>UELFC205-013D1W3<br>UELFC205-014D1W3<br>UELFC205-015D1W3<br>UELFC205-100D1W3 | 115<br>4 17/32     | 90<br>3 35/64  | 63.6<br>2 1/2          | 10<br>25/64          | 12<br>15/32 | 6<br>15/64           | 21<br>13/16          | 27<br>1 1/16  | 70<br>2.7559         | 42.9<br>1 11/16      | 44.4<br>1.748        | 17.45<br>0.687 | 40<br>1 9/16           | M10<br>3/8   |
| 30<br>1 1/16<br>1 1/8<br>1 3/16<br>1 1/4 | UELFC206D1W3<br>UELFC206-110D1W3<br>UELFC206-102D1W3<br>UELFC206-103D1W3<br>UELFC206-104D1W3 | 125<br>4 29/32     | 100<br>3 15/16 | 70.7<br>2 25/32        | 10<br>25/64          | 12<br>15/32 | 8<br>5/16            | 23<br>29/32          | 31<br>1 7/32  | 80<br>3.1496         | 48.1<br>1 57/64      | 48.4<br>1.906        | 18.25<br>0.719 | 47<br>1 27/32          | M10<br>3/8   |
| 35<br>1 1/4<br>1 5/16<br>1 3/8<br>1 7/16 | UELFC207D1W3<br>UELFC207-104D1W3<br>UELFC207-105D1W3<br>UELFC207-106D1W3<br>UELFC207-107D1W3 | 135<br>5 5/16      | 110<br>4 21/64 | 77.8<br>3 1/16         | 11<br>7/16           | 14<br>35/64 | 8<br>5/16            | 26<br>1 1/32         | 34<br>1 11/32 | 90<br>3.5433         | 51.3<br>2 1/64       | 51.1<br>2.012        | 18.8<br>0.740  | 53<br>2 3/32           | M12<br>7/16  |
| 40<br>1 1/2<br>1 9/16                    | UELFC208D1W3<br>UELFC208-108D1W3<br>UELFC208-109D1W3                                         | 145<br>5 23/32     | 120<br>4 23/32 | 84.9<br>3 11/32        | 11<br>7/16           | 14<br>35/64 | 10<br>25/64          | 26<br>1 1/32         | 36<br>1 27/64 | 100<br>3.9370        | 55.9<br>2 13/64      | 56.3<br>2.217        | 21.4<br>0.843  | 59<br>2 5/16           | M12<br>7/16  |
| 45<br>1 5/8<br>1 11/16<br>1 3/4          | UELFC209D1W3<br>UELFC209-110D1W3<br>UELFC209-111D1W3<br>UELFC209-112D1W3                     | 160<br>6 5/16      | 132<br>5 13/64 | 93.3<br>3 43/64        | 10<br>25/64          | 16<br>5/8   | 12<br>15/32          | 26<br>1 1/32         | 38<br>1 1/2   | 105<br>4.1339        | 56.9<br>2 15/64      | 56.3<br>2.217        | 21.4<br>0.843  | 63<br>2 15/32          | M14<br>1/2   |
| 50<br>1 13/16<br>1 7/8<br>1 15/16<br>2   | UELFC210D1W3<br>UELFC210-113D1W3<br>UELFC210-114D1W3<br>UELFC210-115D1W3<br>UELFC210-200D1W3 | 165<br>6 1/2       | 138<br>5 7/16  | 97.6<br>3 27/32        | 10<br>25/64          | 16<br>5/8   | 12<br>15/32          | 28<br>1 3/32         | 40<br>1 37/64 | 110<br>4.3307        | 60.1<br>2 23/64      | 62.7<br>2.469        | 24.6<br>0.969  | 69<br>2 23/32          | M14<br>1/2   |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

| Bearing number | Housing <sup>1)</sup><br>number | Mass<br>(approx.) |    |
|----------------|---------------------------------|-------------------|----|
|                |                                 | kg                | lb |
| UEL204D1W3     | FC204D1                         | 0.8               |    |
| UEL204-012D1W3 | FC204D1                         | 1.8               |    |
| UEL205D1W3     | FC205D1                         | 1.1               |    |
| UEL205-013D1W3 | FC205D1                         |                   |    |
| UEL205-014D1W3 | FC205D1                         | 2.4               |    |
| UEL205-015D1W3 | FC205D1                         |                   |    |
| UEL205-100D1W3 | FC205D1                         |                   |    |
| UEL206D1W3     | FC206D1                         | 1.4               |    |
| UEL206-101D1W3 | FC206D1                         |                   |    |
| UEL206-102D1W3 | FC206D1                         | 3.1               |    |
| UEL206-103D1W3 | FC206D1                         |                   |    |
| UEL206-104D1W3 | FC206D1                         |                   |    |
| UEL207D1W3     | FC207D1                         | 1.8               |    |
| UEL207-104D1W3 | FC207D1                         |                   |    |
| UEL207-105D1W3 | FC207D1                         | 4.0               |    |
| UEL207-106D1W3 | FC207D1                         |                   |    |
| UEL207-107D1W3 | FC207D1                         |                   |    |
| UEL208D1W3     | FC208D1                         | 2.1               |    |
| UEL208-108D1W3 | FC208D1                         | 4.6               |    |
| UEL208-109D1W3 | FC208D1                         |                   |    |
| UEL209D1W3     | FC209D1                         | 2.8               |    |
| UEL209-110D1W3 | FC209D1                         |                   |    |
| UEL209-111D1W3 | FC209D1                         | 6.2               |    |
| UEL209-112D1W3 | FC209D1                         |                   |    |
| UEL210D1W3     | FC210D1                         | 3.1               |    |
| UEL210-113D1W3 | FC210D1                         |                   |    |
| UEL210-114D1W3 | FC210D1                         | 6.8               |    |
| UEL210-115D1W3 | FC210D1                         |                   |    |
| UEL210-200D1W3 | FC210D1                         |                   |    |

Round flanged units cast housing w/spigot joint  
Eccentric locking collar type



| Shaft<br>dia.                                                                                                                            | Unit number <sup>1)</sup>                                                                    | Nominal dimensions                     |                                        |                                          |                                      |           |                                      |                                       |                                       |                       |                                         |                       |                |                                        |                | Bolt<br>size |
|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------|------------------------------------------|--------------------------------------|-----------|--------------------------------------|---------------------------------------|---------------------------------------|-----------------------|-----------------------------------------|-----------------------|----------------|----------------------------------------|----------------|--------------|
|                                                                                                                                          |                                                                                              | mm                                     |                                        |                                          |                                      |           |                                      |                                       | inch                                  |                       |                                         |                       |                |                                        |                |              |
|                                                                                                                                          |                                                                                              | <i>L</i>                               | <i>J</i>                               | <i>(J<sub>1</sub>)</i>                   | <i>A</i> <sub>2</sub>                | <i>N</i>  | <i>A</i> <sub>3</sub>                | <i>A</i> <sub>1</sub>                 | <i>A</i>                              | <i>H</i> <sub>3</sub> | <i>A</i> <sub>0</sub>                   | <i>B</i> <sub>1</sub> | <i>S</i>       | <i>F</i> <sub>min</sub>                | mm<br>inch     |              |
| 55<br>2<br>2 <sup>1</sup> / <sub>16</sub><br>2 <sup>3</sup> / <sub>8</sub><br>2 <sup>3</sup> / <sub>16</sub>                             | UELFC211D1W3<br>UELFC211-200D1W3<br>UELFC211-201D1W3<br>UELFC211-202D1W3<br>UELFC211-203D1W3 | 185<br>7 <sup>9</sup> / <sub>32</sub>  | 150<br>5 <sup>29</sup> / <sub>32</sub> | 106.1<br>4 <sup>11</sup> / <sub>64</sub> | 13<br>3 <sup>3</sup> / <sub>64</sub> | 19<br>3/4 | 12<br>1 <sup>5</sup> / <sub>32</sub> | 31<br>1 <sup>7</sup> / <sub>32</sub>  | 43<br>1 <sup>11</sup> / <sub>16</sub> | 125<br>4.9213         | 68.6<br>2 <sup>45</sup> / <sub>64</sub> | 71.4<br>2.811         | 27.75<br>1.093 | 75<br>2 <sup>15</sup> / <sub>16</sub>  | M16<br><br>5/8 |              |
| 60<br>2 <sup>1</sup> / <sub>4</sub><br>2 <sup>5</sup> / <sub>16</sub><br>2 <sup>3</sup> / <sub>8</sub><br>2 <sup>7</sup> / <sub>16</sub> | UELFC212D1W3<br>UELFC212-204D1W3<br>UELFC212-205D1W3<br>UELFC212-206D1W3<br>UELFC212-207D1W3 | 195<br>7 <sup>11</sup> / <sub>16</sub> | 160<br>6 <sup>19</sup> / <sub>64</sub> | 113.1<br>4 <sup>29</sup> / <sub>64</sub> | 17<br>4 <sup>3</sup> / <sub>64</sub> | 19<br>3/4 | 12<br>1 <sup>5</sup> / <sub>32</sub> | 36<br>1 <sup>13</sup> / <sub>32</sub> | 48<br>1 <sup>57</sup> / <sub>64</sub> | 135<br>5.3150         | 75.8<br>2 <sup>63</sup> / <sub>64</sub> | 77.8<br>3.063         | 30.95<br>1.219 | 84<br>3 <sup>5</sup> / <sub>16</sub>   | M16<br><br>5/8 |              |
| 65<br>2 <sup>1</sup> / <sub>2</sub><br>2 <sup>9</sup> / <sub>16</sub>                                                                    | UELFC213D1W3<br>UELFC213-208D1W3<br>UELFC213-209D1W3                                         | 205<br>8 <sup>1</sup> / <sub>16</sub>  | 170<br>6 <sup>11</sup> / <sub>16</sub> | 120.2<br>4 <sup>47</sup> / <sub>64</sub> | 16<br>5/8                            | 19<br>3/4 | 14<br>3 <sup>5</sup> / <sub>64</sub> | 36<br>1 <sup>13</sup> / <sub>32</sub> | 50<br>1 <sup>31</sup> / <sub>32</sub> | 145<br>5.7087         | 81.6<br>3 <sup>7</sup> / <sub>32</sub>  | 85.7<br>3.374         | 34.15<br>1.344 | 89<br>3 <sup>1</sup> / <sub>2</sub>    | M16<br><br>5/8 |              |
| 70<br>2 <sup>5</sup> / <sub>8</sub><br>2 <sup>11</sup> / <sub>16</sub><br>2 <sup>3</sup> / <sub>4</sub>                                  | UELFC214D1W3<br>UELFC214-210D1W3<br>UELFC214-211D1W3<br>UELFC214-212D1W3                     | 215<br>8 <sup>15</sup> / <sub>32</sub> | 177<br>6 <sup>31</sup> / <sub>32</sub> | 125.2<br>4 <sup>59</sup> / <sub>64</sub> | 17<br>4 <sup>3</sup> / <sub>64</sub> | 19<br>3/4 | 14<br>3 <sup>5</sup> / <sub>64</sub> | 40<br>1 <sup>9</sup> / <sub>16</sub>  | 54<br>2 <sup>1</sup> / <sub>8</sub>   | 150<br>5.9055         | 82.6<br>3 <sup>1</sup> / <sub>4</sub>   | 85.7<br>3.374         | 34.15<br>1.344 | 94<br>3 <sup>45</sup> / <sub>64</sub>  | M16<br><br>5/8 |              |
| 75<br>2 <sup>13</sup> / <sub>16</sub><br>2 <sup>7</sup> / <sub>8</sub><br>2 <sup>15</sup> / <sub>16</sub><br>3                           | UELFC215D1W3<br>UELFC215-213D1W3<br>UELFC215-214D1W3<br>UELFC215-215D1W3<br>UELFC215-300D1W3 | 220<br>8 <sup>21</sup> / <sub>32</sub> | 184<br>7 <sup>1</sup> / <sub>4</sub>   | 130.1<br>5 <sup>1</sup> / <sub>8</sub>   | 18<br>4 <sup>5</sup> / <sub>64</sub> | 19<br>3/4 | 16<br>5/8                            | 40<br>1 <sup>9</sup> / <sub>16</sub>  | 56<br>2 <sup>13</sup> / <sub>64</sub> | 160<br>6.2992         | 88.7<br>3 <sup>31</sup> / <sub>64</sub> | 92<br>3.622           | 37.3<br>1.469  | 100<br>3 <sup>15</sup> / <sub>16</sub> | M16<br><br>5/8 |              |

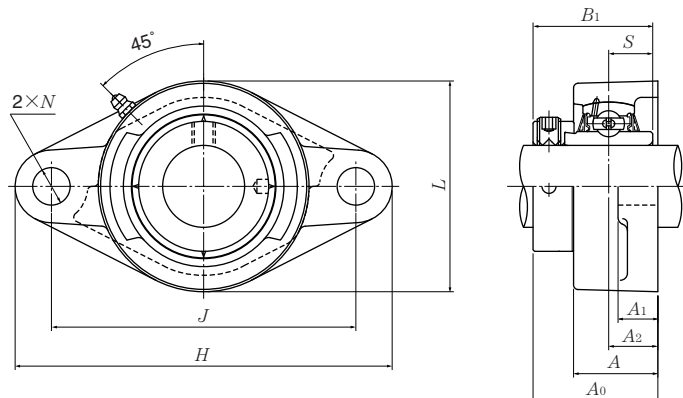
Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

| Bearing number | Housing <sup>1)</sup><br>number | Mass<br>(approx.) |    |
|----------------|---------------------------------|-------------------|----|
|                |                                 | kg                | lb |
| UEL211D1W3     | FC211D1                         | 4.3               |    |
| UEL211-200D1W3 | FC211D1                         |                   |    |
| UEL211-201D1W3 | FC211D1                         | 9.5               |    |
| UEL211-202D1W3 | FC211D1                         |                   |    |
| UEL211-203D1W3 | FC211D1                         |                   |    |
| UEL212D1W3     | FC212D1                         | 5.2               |    |
| UEL212-204D1W3 | FC212D1                         |                   |    |
| UEL212-205D1W3 | FC212D1                         | 11                |    |
| UEL212-206D1W3 | FC212D1                         |                   |    |
| UEL212-207D1W3 | FC212D1                         |                   |    |
| UEL213D1W3     | FC213D1                         | 6.5               |    |
| UEL213-208D1W3 | FC213D1                         | 14                |    |
| UEL213-209D1W3 | FC213D1                         |                   |    |
| UEL214D1W3     | FC214D1                         | 7.4               |    |
| UEL214-210D1W3 | FC214D1                         |                   |    |
| UEL214-211D1W3 | FC214D1                         | 16                |    |
| UEL214-212D1W3 | FC214D1                         |                   |    |
| UEL215D1W3     | FC215D1                         | 7.8               |    |
| UEL215-213D1W3 | FC215D1                         |                   |    |
| UEL215-214D1W3 | FC215D1                         | 17                |    |
| UEL215-215D1W3 | FC215D1                         |                   |    |
| UEL215-300D1W3 | FC215D1                         |                   |    |



**Rhombus flanged units cast housing**  
**Eccentric locking collar type**



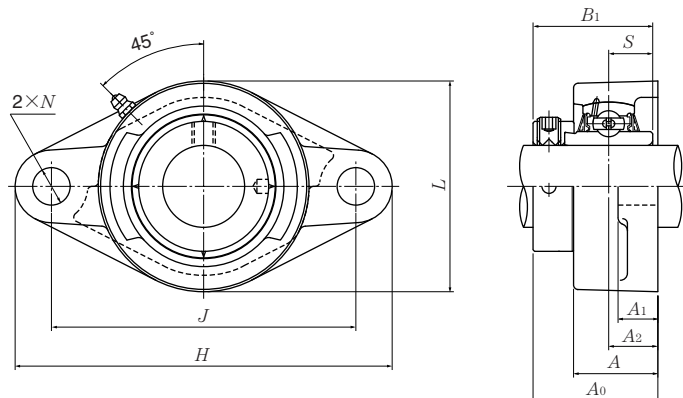
| Shaft<br>dia.<br><br>mm<br>inch                                                     | Unit number <sup>1)</sup>                                                                                                            | Nominal dimensions      |                           |                       |                       |                         |                          |                        |                          |                |                | Bolt<br>size<br><br>mm<br>inch |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------|-----------------------|-----------------------|-------------------------|--------------------------|------------------------|--------------------------|----------------|----------------|--------------------------------|
|                                                                                     |                                                                                                                                      | H                       | J                         | A <sub>2</sub>        | A <sub>1</sub>        | A                       | N                        | L                      | A <sub>0</sub>           | B <sub>1</sub> | S              |                                |
| <b>20</b><br>$\frac{3}{4}$                                                          | <b>UELFLU204D1W3</b><br><b>UELFLU204-012D1W3</b>                                                                                     | 113<br>$4\frac{7}{16}$  | 90<br>$3\frac{35}{64}$    | 19<br>$\frac{3}{4}$   | 15<br>$1\frac{9}{32}$ | 29.5<br>$1\frac{5}{32}$ | 11.5<br>$2\frac{29}{64}$ | 61<br>$2\frac{13}{32}$ | 45.6<br>$1\frac{51}{64}$ | 43.7<br>1.720  | 17.1<br>0.673  | M10<br>$\frac{5}{16}$          |
| <b>25</b><br>$1\frac{13}{16}$<br>$\frac{7}{8}$<br>$1\frac{15}{16}$<br><b>1</b>      | <b>UELFLU205D1W3</b><br><b>UELFLU205-013D1W3</b><br><b>UELFLU205-014D1W3</b><br><b>UELFLU205-015D1W3</b><br><b>UELFLU205-100D1W3</b> | 125<br>$4\frac{29}{32}$ | 99<br>$3\frac{57}{64}$    | 19<br>$\frac{3}{4}$   | 15<br>$1\frac{9}{32}$ | 30<br>$1\frac{3}{16}$   | 11.5<br>$2\frac{29}{64}$ | 70<br>$2\frac{3}{4}$   | 45.9<br>$1\frac{13}{16}$ | 44.4<br>1.748  | 17.45<br>0.687 | M10<br>$\frac{3}{8}$           |
| <b>30</b><br>$1\frac{1}{16}$<br>$1\frac{1}{8}$<br>$1\frac{3}{16}$<br>$1\frac{1}{4}$ | <b>UELFLU206D1W3</b><br><b>UELFLU206-101D1W3</b><br><b>UELFLU206-102D1W3</b><br><b>UELFLU206-103D1W3</b><br><b>UELFLU206-104D1W3</b> | 142<br>$5\frac{19}{32}$ | 116.5<br>$4\frac{19}{32}$ | 20<br>$2\frac{5}{32}$ | 16<br>$\frac{5}{8}$   | 33<br>$1\frac{5}{16}$   | 11.5<br>$2\frac{29}{64}$ | 83<br>$3\frac{9}{32}$  | 50.1<br>$1\frac{31}{32}$ | 48.4<br>1.906  | 18.25<br>0.719 | M10<br>$\frac{3}{8}$           |
| <b>35</b><br>$1\frac{1}{4}$<br>$1\frac{5}{16}$<br>$1\frac{3}{8}$<br>$1\frac{7}{16}$ | <b>UELFLU207D1W3</b><br><b>UELFLU207-104D1W3</b><br><b>UELFLU207-105D1W3</b><br><b>UELFLU207-106D1W3</b><br><b>UELFLU207-107D1W3</b> | 156<br>$6\frac{5}{32}$  | 130<br>$5\frac{1}{8}$     | 21<br>$5\frac{3}{64}$ | 17<br>$2\frac{1}{32}$ | 36<br>$1\frac{13}{32}$  | 14<br>$3\frac{35}{64}$   | 96<br>$3\frac{25}{32}$ | 53.3<br>$2\frac{3}{32}$  | 51.1<br>2.012  | 18.8<br>0.740  | M12<br>$\frac{1}{2}$           |
| <b>40</b><br>$1\frac{1}{2}$<br>$1\frac{9}{16}$                                      | <b>UELFLU208D1W3</b><br><b>UELFLU208-108D1W3</b><br><b>UELFLU208-109D1W3</b>                                                         | 172<br>$6\frac{25}{32}$ | 143.5<br>$5\frac{21}{32}$ | 24<br>$1\frac{5}{16}$ | 17<br>$2\frac{1}{32}$ | 39<br>$1\frac{17}{32}$  | 14<br>$3\frac{35}{64}$   | 105<br>$4\frac{1}{8}$  | 58.9<br>$2\frac{5}{16}$  | 56.3<br>2.217  | 21.4<br>0.843  | M12<br>$\frac{1}{2}$           |
| <b>45</b><br>$1\frac{5}{8}$<br>$1\frac{11}{16}$<br>$1\frac{3}{4}$                   | <b>UELFLU209D1W3</b><br><b>UELFLU209-110D1W3</b><br><b>UELFLU209-111D1W3</b><br><b>UELFLU209-112D1W3</b>                             | 180<br>$7\frac{3}{32}$  | 148.5<br>$5\frac{27}{32}$ | 24<br>$1\frac{5}{16}$ | 18<br>$2\frac{3}{32}$ | 40<br>$1\frac{9}{16}$   | 16<br>$5\frac{5}{8}$     | 111<br>$4\frac{3}{8}$  | 58.9<br>$2\frac{5}{16}$  | 56.3<br>2.217  | 21.4<br>0.843  | M14<br>$\frac{1}{2}$           |
| <b>50</b><br>$1\frac{13}{16}$<br>$1\frac{7}{8}$<br>$1\frac{15}{16}$<br><b>2</b>     | <b>UELFLU210D1W3</b><br><b>UELFLU210-113D1W3</b><br><b>UELFLU210-114D1W3</b><br><b>UELFLU210-115D1W3</b><br><b>UELFLU210-200D1W3</b> | 190<br>$7\frac{15}{32}$ | 157<br>$6\frac{3}{16}$    | 28<br>$1\frac{7}{64}$ | 20<br>$2\frac{5}{32}$ | 46<br>$1\frac{13}{16}$  | 18<br>$4\frac{45}{64}$   | 116<br>$4\frac{9}{16}$ | 66.1<br>$2\frac{39}{64}$ | 62.7<br>2.469  | 24.6<br>0.969  | M16<br>$\frac{5}{8}$           |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

| Bearing number | Housing <sup>1)</sup><br>number | Mass<br>(approx.) |    |
|----------------|---------------------------------|-------------------|----|
|                |                                 | kg                | lb |
| UEL204D1W3     | FLU204D1                        | 0.6               |    |
| UEL204-012D1W3 | FLU204D1                        | 1.3               |    |
| UEL205D1W3     | FLU205D1                        | 0.7               |    |
| UEL205-013D1W3 | FLU205D1                        |                   |    |
| UEL205-014D1W3 | FLU205D1                        | 1.5               |    |
| UEL205-015D1W3 | FLU205D1                        |                   |    |
| UEL205-100D1W3 | FLU205D1                        |                   |    |
| UEL206D1W3     | FLU206D1                        | 1.1               |    |
| UEL206-101D1W3 | FLU206D1                        |                   |    |
| UEL206-102D1W3 | FLU206D1                        | 2.4               |    |
| UEL206-103D1W3 | FLU206D1                        |                   |    |
| UEL206-104D1W3 | FLU206D1                        |                   |    |
| UEL207D1W3     | FLU207D1                        | 1.5               |    |
| UEL207-104D1W3 | FLU207D1                        |                   |    |
| UEL207-105D1W3 | FLU207D1                        | 3.3               |    |
| UEL207-106D1W3 | FLU207D1                        |                   |    |
| UEL207-107D1W3 | FLU207D1                        |                   |    |
| UEL208D1W3     | FLU208D1                        | 1.9               |    |
| UEL208-108D1W3 | FLU208D1                        | 4.2               |    |
| UEL208-109D1W3 | FLU208D1                        |                   |    |
| UEL209D1W3     | FLU209D1                        | 2.3               |    |
| UEL209-110D1W3 | FLU209D1                        |                   |    |
| UEL209-111D1W3 | FLU209D1                        | 5.1               |    |
| UEL209-112D1W3 | FLU209D1                        |                   |    |
| UEL210D1W3     | FLU210D1                        | 2.9               |    |
| UEL210-113D1W3 | FLU210D1                        |                   |    |
| UEL210-114D1W3 | FLU210D1                        | 6.4               |    |
| UEL210-115D1W3 | FLU210D1                        |                   |    |
| UEL210-200D1W3 | FLU210D1                        |                   |    |

**Rhombus flanged units cast housing**  
**Eccentric locking collar type**



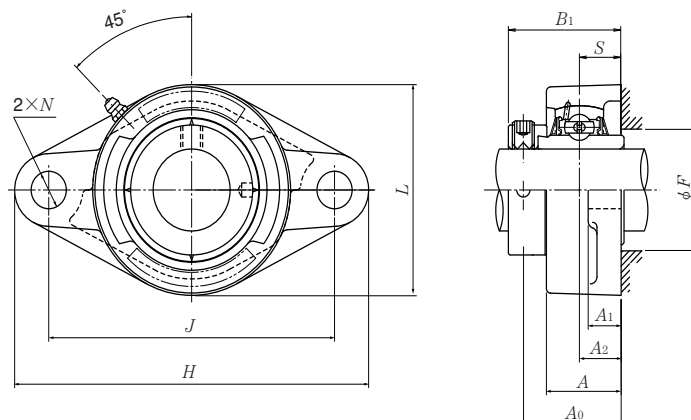
| Shaft<br>dia.                                                                                                                                                   | Unit number <sup>1)</sup>                                                                                                            | Nominal dimensions                                     |                                                       |                                                      |                                                     |                                                      |                                                       |                                                       |                                                         |                                 |                                  | Bolt<br>size                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------|---------------------------------|----------------------------------|------------------------------|
|                                                                                                                                                                 |                                                                                                                                      | mm                                                     |                                                       |                                                      |                                                     |                                                      | inch                                                  |                                                       |                                                         |                                 |                                  |                              |
|                                                                                                                                                                 |                                                                                                                                      | <i>H</i>                                               | <i>J</i>                                              | <i>A</i> <sub>2</sub>                                | <i>A</i> <sub>1</sub>                               | <i>A</i>                                             | <i>N</i>                                              | <i>L</i>                                              | <i>A</i> <sub>0</sub>                                   | <i>B</i> <sub>1</sub>           | <i>S</i>                         |                              |
| <b>55</b><br><b>2</b><br><b>2<sup>1</sup>/<sub>16</sub></b><br><b>2<sup>1</sup>/<sub>8</sub></b><br><b>2<sup>3</sup>/<sub>16</sub></b>                          | <b>UELFLU211D1W3</b><br><b>UELFLU211-200D1W3</b><br><b>UELFLU211-201D1W3</b><br><b>UELFLU211-202D1W3</b><br><b>UELFLU211-203D1W3</b> | <b>217</b><br><br><b>8<sup>17</sup>/<sub>32</sub></b>  | <b>184</b><br><br><b>7<sup>1</sup>/<sub>4</sub></b>   | <b>31</b><br><br><b>1<sup>7</sup>/<sub>32</sub></b>  | <b>21</b><br><br><b>1<sup>3</sup>/<sub>16</sub></b> | <b>49</b><br><br><b>1<sup>15</sup>/<sub>16</sub></b> | <b>18</b><br><br><b>4<sup>5</sup>/<sub>64</sub></b>   | <b>134</b><br><br><b>5<sup>9</sup>/<sub>32</sub></b>  | <b>74.6</b><br><br><b>2<sup>15</sup>/<sub>16</sub></b>  | <b>71.4</b><br><br><b>2.811</b> | <b>27.75</b><br><br><b>1.093</b> | <b>M16</b><br><br><b>5/8</b> |
| <b>60</b><br><b>2<sup>1</sup>/<sub>4</sub></b><br><b>2<sup>5</sup>/<sub>16</sub></b><br><b>2<sup>3</sup>/<sub>8</sub></b><br><b>2<sup>7</sup>/<sub>16</sub></b> | <b>UELFLU212D1W3</b><br><b>UELFLU212-204D1W3</b><br><b>UELFLU212-205D1W3</b><br><b>UELFLU212-206D1W3</b><br><b>UELFLU212-207D1W3</b> | <b>235</b><br><br><b>9<sup>1</sup>/<sub>4</sub></b>    | <b>202</b><br><br><b>7<sup>61</sup>/<sub>64</sub></b> | <b>34</b><br><br><b>1<sup>11</sup>/<sub>32</sub></b> | <b>21</b><br><br><b>1<sup>3</sup>/<sub>16</sub></b> | <b>53</b><br><br><b>2<sup>3</sup>/<sub>32</sub></b>  | <b>18</b><br><br><b>4<sup>5</sup>/<sub>64</sub></b>   | <b>138</b><br><br><b>5<sup>7</sup>/<sub>16</sub></b>  | <b>80.8</b><br><br><b>3<sup>3</sup>/<sub>16</sub></b>   | <b>77.8</b><br><br><b>3.063</b> | <b>30.95</b><br><br><b>1.219</b> | <b>M16</b><br><br><b>5/8</b> |
| <b>65</b><br><b>2<sup>1</sup>/<sub>2</sub></b><br><b>2<sup>9</sup>/<sub>16</sub></b>                                                                            | <b>UELFLU213D1W3</b><br><b>UELFLU213-208D1W3</b><br><b>UELFLU213-209D1W3</b>                                                         | <b>248</b><br><br><b>9<sup>3</sup>/<sub>4</sub></b>    | <b>210</b><br><br><b>8<sup>17</sup>/<sub>64</sub></b> | <b>38</b><br><br><b>1<sup>1</sup>/<sub>2</sub></b>   | <b>22</b><br><br><b>7/8</b>                         | <b>59</b><br><br><b>2<sup>5</sup>/<sub>16</sub></b>  | <b>20.5</b><br><br><b>1<sup>3</sup>/<sub>16</sub></b> | <b>152</b><br><br><b>5<sup>31</sup>/<sub>32</sub></b> | <b>89.55</b><br><br><b>3<sup>17</sup>/<sub>32</sub></b> | <b>85.7</b><br><br><b>3.374</b> | <b>34.15</b><br><br><b>1.344</b> | <b>M18</b><br><br><b>5/8</b> |
| <b>70</b><br><b>2<sup>5</sup>/<sub>8</sub></b><br><b>2<sup>11</sup>/<sub>16</sub></b><br><b>2<sup>3</sup>/<sub>4</sub></b>                                      | <b>UELFLU214D1W3</b><br><b>UELFLU214-210D1W3</b><br><b>UELFLU214-211D1W3</b><br><b>UELFLU214-212D1W3</b>                             | <b>257</b><br><br><b>10<sup>1</sup>/<sub>8</sub></b>   | <b>216</b><br><br><b>8<sup>1</sup>/<sub>2</sub></b>   | <b>38</b><br><br><b>1<sup>1</sup>/<sub>2</sub></b>   | <b>22</b><br><br><b>7/8</b>                         | <b>62</b><br><br><b>2<sup>7</sup>/<sub>16</sub></b>  | <b>20.5</b><br><br><b>1<sup>3</sup>/<sub>16</sub></b> | <b>159</b><br><br><b>6<sup>1</sup>/<sub>4</sub></b>   | <b>89.55</b><br><br><b>3<sup>17</sup>/<sub>32</sub></b> | <b>85.7</b><br><br><b>3.374</b> | <b>34.15</b><br><br><b>1.344</b> | <b>M18</b><br><br><b>5/8</b> |
| <b>75</b><br><b>2<sup>13</sup>/<sub>16</sub></b><br><b>2<sup>7</sup>/<sub>8</sub></b><br><b>2<sup>15</sup>/<sub>16</sub></b><br><b>3</b>                        | <b>UELFLU215D1W3</b><br><b>UELFLU215-213D1W3</b><br><b>UELFLU215-214D1W3</b><br><b>UELFLU215-215D1W3</b><br><b>UELFLU215-300D1W3</b> | <b>266</b><br><br><b>10<sup>15</sup>/<sub>32</sub></b> | <b>225</b><br><br><b>8<sup>55</sup>/<sub>64</sub></b> | <b>41</b><br><br><b>1<sup>39</sup>/<sub>64</sub></b> | <b>22</b><br><br><b>7/8</b>                         | <b>65</b><br><br><b>2<sup>9</sup>/<sub>16</sub></b>  | <b>20.5</b><br><br><b>1<sup>3</sup>/<sub>16</sub></b> | <b>165</b><br><br><b>6<sup>1</sup>/<sub>2</sub></b>   | <b>95.7</b><br><br><b>3<sup>49</sup>/<sub>64</sub></b>  | <b>92</b><br><br><b>3.622</b>   | <b>37.3</b><br><br><b>1.469</b>  | <b>M18</b><br><br><b>5/8</b> |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

| Bearing number | Housing <sup>1)</sup><br>number | Mass<br>(approx.) |    |
|----------------|---------------------------------|-------------------|----|
|                |                                 | kg                | lb |
| UEL211D1W3     | FLU211D1                        | 3.6               |    |
| UEL211-200D1W3 | FLU211D1                        |                   |    |
| UEL211-201D1W3 | FLU211D1                        | 7.9               |    |
| UEL211-202D1W3 | FLU211D1                        |                   |    |
| UEL211-203D1W3 | FLU211D1                        |                   |    |
| UEL212D1W3     | FLU212D1                        | 4.0               |    |
| UEL212-204D1W3 | FLU212D1                        |                   |    |
| UEL212-205D1W3 | FLU212D1                        | 8.8               |    |
| UEL212-206D1W3 | FLU212D1                        |                   |    |
| UEL212-207D1W3 | FLU212D1                        |                   |    |
| UEL213D1W3     | FLU213D1                        | 5.6               |    |
| UEL213-208D1W3 | FLU213D1                        | 12                |    |
| UEL213-209D1W3 | FLU213D1                        |                   |    |
| UEL214D1W3     | FLU214D1                        | 6.3               |    |
| UEL214-210D1W3 | FLU214D1                        |                   |    |
| UEL214-211D1W3 | FLU214D1                        | 14                |    |
| UEL214-212D1W3 | FLU214D1                        |                   |    |
| UEL215D1W3     | FLU215D1                        | 6.8               |    |
| UEL215-213D1W3 | FLU215D1                        |                   |    |
| UEL215-214D1W3 | FLU215D1                        | 15                |    |
| UEL215-215D1W3 | FLU215D1                        |                   |    |
| UEL215-300D1W3 | FLU215D1                        |                   |    |

**Rhombus flanged units cast housing  
Eccentric locking collar type**



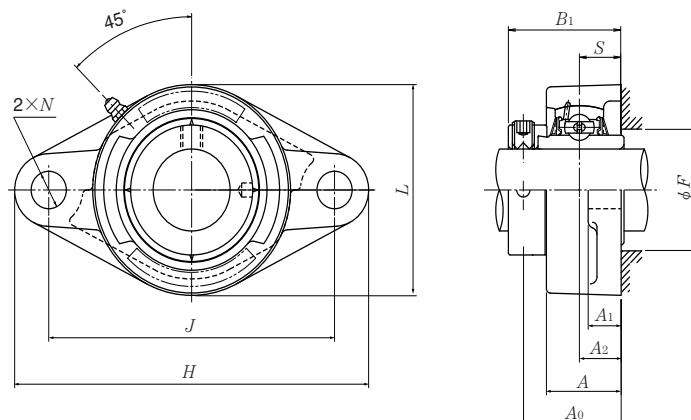
| Shaft<br>dia.                                                                                                                            | Unit number <sup>1)</sup>                                                                    | Nominal dimensions                     |                                        |                                       |                                       |                                       |                                       |                                        |                                         |                       |                |                                       |                                      | Bolt<br>size |
|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|----------------------------------------|-----------------------------------------|-----------------------|----------------|---------------------------------------|--------------------------------------|--------------|
| mm<br>inch                                                                                                                               |                                                                                              | <i>H</i>                               | <i>J</i>                               | <i>A</i> <sub>2</sub>                 | <i>A</i> <sub>1</sub>                 | mm<br><i>A</i>                        | inch<br><i>N</i>                      | <i>L</i>                               | <i>A</i> <sub>0</sub>                   | <i>B</i> <sub>1</sub> | <i>S</i>       | <i>F</i><br>min.                      | mm<br>inch                           |              |
| 20<br>¾                                                                                                                                  | UELFL204D1W3<br>UELFL204-012D1W3                                                             | 113<br>4 <sup>7</sup> / <sub>16</sub>  | 90<br>3 <sup>35</sup> / <sub>64</sub>  | 15<br>1 <sup>9</sup> / <sub>32</sub>  | 11<br>7 <sup>7</sup> / <sub>16</sub>  | 25.5<br>1                             | 12<br>1 <sup>15</sup> / <sub>32</sub> | 60<br>2 <sup>3</sup> / <sub>8</sub>    | 41.6<br>1 <sup>41</sup> / <sub>64</sub> | 43.7<br>1.720         | 17.1<br>0.673  | 34<br>1 <sup>11</sup> / <sub>32</sub> | M10<br>⅜                             |              |
| 25<br>1 <sup>13</sup> / <sub>16</sub><br>7 <sup>7</sup> / <sub>8</sub><br>1 <sup>15</sup> / <sub>16</sub><br>1                           | UELFL205D1W3<br>UELFL205-013D1W3<br>UELFL205-014D1W3<br>UELFL205-015D1W3<br>UELFL205-100D1W3 | 130<br>5 <sup>1</sup> / <sub>8</sub>   | 99<br>3 <sup>57</sup> / <sub>64</sub>  | 16<br>5 <sup>5</sup> / <sub>8</sub>   | 13<br>½                               | 27<br>1 <sup>1</sup> / <sub>16</sub>  | 16<br>5 <sup>5</sup> / <sub>8</sub>   | 68<br>2 <sup>11</sup> / <sub>64</sub>  | 42.9<br>1 <sup>11</sup> / <sub>16</sub> | 44.4<br>1.748         | 17.45<br>0.687 | 38<br>1½                              | M14<br>½                             |              |
| 30<br>1 <sup>1</sup> / <sub>6</sub><br>1 <sup>1</sup> / <sub>8</sub><br>1 <sup>3</sup> / <sub>16</sub><br>1 <sup>1</sup> / <sub>4</sub>  | UELFL206D1W3<br>UELFL206-101D1W3<br>UELFL206-102D1W3<br>UELFL206-103D1W3<br>UELFL206-104D1W3 | 148<br>5 <sup>13</sup> / <sub>16</sub> | 117<br>4 <sup>9</sup> / <sub>64</sub>  | 18<br>4 <sup>45</sup> / <sub>64</sub> | 13<br>½                               | 31<br>1 <sup>7</sup> / <sub>32</sub>  | 16<br>5 <sup>5</sup> / <sub>8</sub>   | 80<br>3 <sup>5</sup> / <sub>32</sub>   | 48.1<br>1 <sup>57</sup> / <sub>64</sub> | 48.4<br>1.906         | 18.25<br>0.719 | 45<br>1 <sup>25</sup> / <sub>32</sub> | M14<br>½                             |              |
| 35<br>1 <sup>1</sup> / <sub>4</sub><br>1 <sup>5</sup> / <sub>16</sub><br>1 <sup>3</sup> / <sub>8</sub><br>1 <sup>7</sup> / <sub>16</sub> | UELFL207D1W3<br>UELFL207-104D1W3<br>UELFL207-105D1W3<br>UELFL207-106D1W3<br>UELFL207-107D1W3 | 161<br>6 <sup>11</sup> / <sub>32</sub> | 130<br>5 <sup>1</sup> / <sub>8</sub>   | 19<br>¾                               | 15<br>1 <sup>19</sup> / <sub>32</sub> | 34<br>1 <sup>11</sup> / <sub>32</sub> | 16<br>5 <sup>5</sup> / <sub>8</sub>   | 90<br>3 <sup>17</sup> / <sub>32</sub>  | 51.3<br>2 <sup>1</sup> / <sub>64</sub>  | 51.1<br>2.012         | 18.8<br>0.740  | 51<br>2                               | M14<br>½                             |              |
| 40<br>1½<br>1 <sup>9</sup> / <sub>16</sub>                                                                                               | UELFL208D1W3<br>UELFL208-108D1W3<br>UELFL208-109D1W3                                         | 175<br>6 <sup>7</sup> / <sub>8</sub>   | 144<br>5 <sup>43</sup> / <sub>64</sub> | 21<br>5 <sup>53</sup> / <sub>64</sub> | 15<br>1 <sup>19</sup> / <sub>32</sub> | 36<br>1 <sup>13</sup> / <sub>32</sub> | 16<br>5 <sup>5</sup> / <sub>8</sub>   | 100<br>3 <sup>15</sup> / <sub>16</sub> | 55.9<br>2 <sup>13</sup> / <sub>16</sub> | 56.3<br>2.217         | 21.4<br>0.843  | 57<br>2¼                              | M14<br>½                             |              |
| 45<br>1 <sup>5</sup> / <sub>8</sub><br>1 <sup>11</sup> / <sub>16</sub><br>1¾                                                             | UELFL209D1W3<br>UELFL209-110D1W3<br>UELFL209-111D1W3<br>UELFL209-112D1W3                     | 188<br>7 <sup>13</sup> / <sub>32</sub> | 148<br>5 <sup>53</sup> / <sub>64</sub> | 22<br>5 <sup>55</sup> / <sub>64</sub> | 16<br>5 <sup>5</sup> / <sub>8</sub>   | 38<br>1½                              | 19<br>¾                               | 108<br>4¼                              | 56.9<br>2 <sup>15</sup> / <sub>64</sub> | 56.3<br>2.217         | 21.4<br>0.843  | 62<br>2 <sup>7</sup> / <sub>16</sub>  | M16<br>5 <sup>5</sup> / <sub>8</sub> |              |
| 50<br>1 <sup>13</sup> / <sub>16</sub><br>1 <sup>7</sup> / <sub>8</sub><br>1 <sup>15</sup> / <sub>16</sub><br>2                           | UELFL210D1W3<br>UELFL210-113D1W3<br>UELFL210-114D1W3<br>UELFL210-115D1W3<br>UELFL210-200D1W3 | 197<br>7¾                              | 157<br>6 <sup>3</sup> / <sub>16</sub>  | 22<br>5 <sup>55</sup> / <sub>64</sub> | 16<br>5 <sup>5</sup> / <sub>8</sub>   | 40<br>1 <sup>9</sup> / <sub>16</sub>  | 19<br>¾                               | 115<br>4 <sup>17</sup> / <sub>32</sub> | 60.1<br>2 <sup>23</sup> / <sub>64</sub> | 62.7<br>2.469         | 24.6<br>0.969  | 67<br>2 <sup>41</sup> / <sub>64</sub> | M16<br>5 <sup>5</sup> / <sub>8</sub> |              |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

| Bearing number | Housing number <sup>1)</sup> | Mass (approx.) |    |
|----------------|------------------------------|----------------|----|
|                |                              | kg             | lb |
| UEL204D1W3     | FL204D1                      | 0.5            |    |
| UEL204-012D1W3 | FL204D1                      | 1.1            |    |
| UEL205D1W3     | FL205D1                      | 0.7            |    |
| UEL205-013D1W3 | FL205D1                      |                |    |
| UEL205-014D1W3 | FL205D1                      | 1.5            |    |
| UEL205-015D1W3 | FL205D1                      |                |    |
| UEL205-100D1W3 | FL205D1                      |                |    |
| UEL206D1W3     | FL206D1                      | 1.0            |    |
| UEL206-101D1W3 | FL206D1                      |                |    |
| UEL206-102D1W3 | FL206D1                      | 2.2            |    |
| UEL206-103D1W3 | FL206D1                      |                |    |
| UEL206-104D1W3 | FL206D1                      |                |    |
| UEL207D1W3     | FL207D1                      | 1.3            |    |
| UEL207-104D1W3 | FL207D1                      |                |    |
| UEL207-105D1W3 | FL207D1                      | 2.9            |    |
| UEL207-106D1W3 | FL207D1                      |                |    |
| UEL207-107D1W3 | FL207D1                      |                |    |
| UEL208D1W3     | FL208D1                      | 1.6            |    |
| UEL208-108D1W3 | FL208D1                      | 3.5            |    |
| UEL208-109D1W3 | FL208D1                      |                |    |
| UEL209D1W3     | FL209D1                      | 2.0            |    |
| UEL209-110D1W3 | FL209D1                      |                |    |
| UEL209-111D1W3 | FL209D1                      | 4.4            |    |
| UEL209-112D1W3 | FL209D1                      |                |    |
| UEL210D1W3     | FL210D1                      | 2.2            |    |
| UEL210-113D1W3 | FL210D1                      |                |    |
| UEL210-114D1W3 | FL210D1                      | 4.9            |    |
| UEL210-115D1W3 | FL210D1                      |                |    |
| UEL210-200D1W3 | FL210D1                      |                |    |

# Rhombus flanged units cast housing Eccentric locking collar type



| Shaft<br>dia.                   | Unit number <sup>1)</sup> | Nominal dimensions               |                                 |                                 |                                |                                 |                                |                                |                                 |                |       |                                 | Bolt<br>size                  |
|---------------------------------|---------------------------|----------------------------------|---------------------------------|---------------------------------|--------------------------------|---------------------------------|--------------------------------|--------------------------------|---------------------------------|----------------|-------|---------------------------------|-------------------------------|
|                                 |                           | H                                | J                               | A <sub>2</sub>                  | A <sub>1</sub>                 | mm<br>A                         | inch<br>N                      | L                              | A <sub>0</sub>                  | B <sub>1</sub> | S     | F<br>min.                       |                               |
| 55                              | UELFL211D1W3              | 224                              | 184                             | 25                              | 18                             | 43                              | 19                             | 130                            | 68.6                            | 71.4           | 27.75 | 73                              | M16                           |
| 2                               | UELFL211-200D1W3          |                                  |                                 |                                 |                                |                                 |                                |                                |                                 |                |       |                                 |                               |
| 2 <sup>1</sup> / <sub>16</sub>  | UELFL211-201D1W3          | 8 <sup>13</sup> / <sub>16</sub>  | 7 <sup>1</sup> / <sub>4</sub>   | 6 <sup>3</sup> / <sub>64</sub>  | 2 <sup>3</sup> / <sub>32</sub> | 1 <sup>11</sup> / <sub>16</sub> | 3 <sup>3</sup> / <sub>4</sub>  | 5 <sup>1</sup> / <sub>8</sub>  | 2 <sup>45</sup> / <sub>64</sub> | 2.811          | 1.093 | 2 <sup>7</sup> / <sub>8</sub>   | 5 <sup>5</sup> / <sub>8</sub> |
| 2 <sup>1</sup> / <sub>8</sub>   | UELFL211-202D1W3          |                                  |                                 |                                 |                                |                                 |                                |                                |                                 |                |       |                                 |                               |
| 2 <sup>3</sup> / <sub>16</sub>  | UELFL211-203D1W3          |                                  |                                 |                                 |                                |                                 |                                |                                |                                 |                |       |                                 |                               |
| 60                              | UELFL212D1W3              | 250                              | 202                             | 29                              | 18                             | 48                              | 23                             | 140                            | 75.8                            | 77.8           | 30.95 | 81                              | M20                           |
| 2 <sup>1</sup> / <sub>4</sub>   | UELFL212-204D1W3          |                                  |                                 |                                 |                                |                                 |                                |                                |                                 |                |       |                                 |                               |
| 2 <sup>5</sup> / <sub>16</sub>  | UELFL212-205D1W3          | 9 <sup>27</sup> / <sub>32</sub>  | 7 <sup>61</sup> / <sub>64</sub> | 1 <sup>9</sup> / <sub>64</sub>  | 2 <sup>3</sup> / <sub>32</sub> | 1 <sup>7</sup> / <sub>8</sub>   | 2 <sup>9</sup> / <sub>32</sub> | 5 <sup>1</sup> / <sub>2</sub>  | 2 <sup>63</sup> / <sub>64</sub> | 3.063          | 1.219 | 3 <sup>3</sup> / <sub>16</sub>  | 3 <sup>3</sup> / <sub>4</sub> |
| 2 <sup>3</sup> / <sub>8</sub>   | UELFL212-206D1W3          |                                  |                                 |                                 |                                |                                 |                                |                                |                                 |                |       |                                 |                               |
| 2 <sup>7</sup> / <sub>16</sub>  | UELFL212-207D1W3          |                                  |                                 |                                 |                                |                                 |                                |                                |                                 |                |       |                                 |                               |
| 65                              | UELFL213D1W3              | 258                              | 210                             | 30                              | 22                             | 50                              | 23                             | 155                            | 81.55                           | 85.7           | 34.15 | 87                              | M20                           |
| 2 <sup>1</sup> / <sub>2</sub>   | UELFL213-208D1W3          | 10 <sup>5</sup> / <sub>32</sub>  | 8 <sup>17</sup> / <sub>64</sub> | 1 <sup>3</sup> / <sub>16</sub>  | 7 <sup>7</sup> / <sub>8</sub>  | 1 <sup>31</sup> / <sub>32</sub> | 2 <sup>9</sup> / <sub>32</sub> | 6 <sup>3</sup> / <sub>32</sub> | 3 <sup>13</sup> / <sub>64</sub> | 3.374          | 1.344 | 3 <sup>7</sup> / <sub>16</sub>  | 3 <sup>3</sup> / <sub>4</sub> |
| 2 <sup>9</sup> / <sub>16</sub>  | UELFL213-209D1W3          |                                  |                                 |                                 |                                |                                 |                                |                                |                                 |                |       |                                 |                               |
| 70                              | UELFL214D1W3              | 265                              | 216                             | 31                              | 22                             | 54                              | 23                             | 160                            | 82.55                           | 85.7           | 34.15 | 91                              | M20                           |
| 2 <sup>5</sup> / <sub>8</sub>   | UELFL214-210D1W3          |                                  |                                 |                                 |                                |                                 |                                |                                |                                 |                |       |                                 |                               |
| 2 <sup>11</sup> / <sub>16</sub> | UELFL214-211D1W3          | 10 <sup>7</sup> / <sub>16</sub>  | 8 <sup>1</sup> / <sub>2</sub>   | 1 <sup>7</sup> / <sub>32</sub>  | 7 <sup>7</sup> / <sub>8</sub>  | 2 <sup>1</sup> / <sub>8</sub>   | 2 <sup>9</sup> / <sub>32</sub> | 6 <sup>5</sup> / <sub>16</sub> | 3 <sup>1</sup> / <sub>4</sub>   | 3.374          | 1.344 | 3 <sup>37</sup> / <sub>64</sub> | 3 <sup>3</sup> / <sub>4</sub> |
| 2 <sup>3</sup> / <sub>4</sub>   | UELFL214-212D1W3          |                                  |                                 |                                 |                                |                                 |                                |                                |                                 |                |       |                                 |                               |
| 75                              | UELFL215D1W3              | 275                              | 225                             | 34                              | 22                             | 56                              | 23                             | 165                            | 88.7                            | 92             | 37.3  | 97                              | M20                           |
| 2 <sup>13</sup> / <sub>16</sub> | UELFL215-213D1W3          |                                  |                                 |                                 |                                |                                 |                                |                                |                                 |                |       |                                 |                               |
| 2 <sup>7</sup> / <sub>8</sub>   | UELFL215-214D1W3          | 10 <sup>13</sup> / <sub>16</sub> | 8 <sup>55</sup> / <sub>64</sub> | 1 <sup>11</sup> / <sub>32</sub> | 7 <sup>7</sup> / <sub>8</sub>  | 2 <sup>7</sup> / <sub>32</sub>  | 2 <sup>9</sup> / <sub>32</sub> | 6 <sup>1</sup> / <sub>2</sub>  | 3 <sup>31</sup> / <sub>64</sub> | 3.622          | 1.469 | 3 <sup>13</sup> / <sub>16</sub> | 3 <sup>3</sup> / <sub>4</sub> |
| 2 <sup>15</sup> / <sub>16</sub> | UELFL215-215D1W3          |                                  |                                 |                                 |                                |                                 |                                |                                |                                 |                |       |                                 |                               |
| 3                               | UELFL215-300D1W3          |                                  |                                 |                                 |                                |                                 |                                |                                |                                 |                |       |                                 |                               |

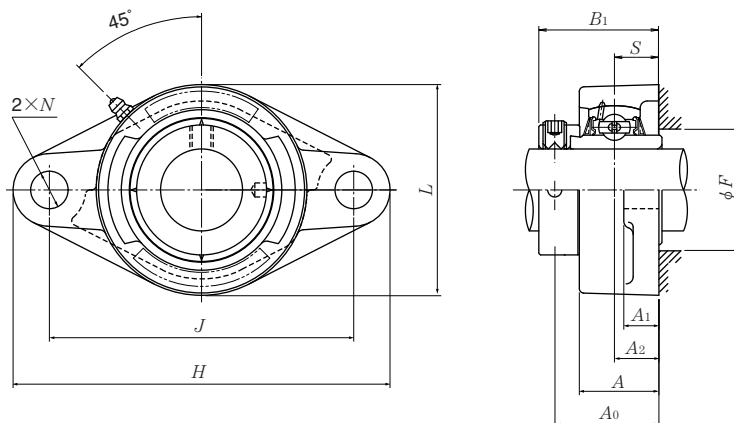
Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

| Bearing number | Housing number <sup>1)</sup> | Mass (approx.) |    |
|----------------|------------------------------|----------------|----|
|                |                              | kg             | lb |
| UEL211D1W3     | FL211D1                      | 3.2            |    |
| UEL211-200D1W3 | FL211D1                      |                |    |
| UEL211-201D1W3 | FL211D1                      | 7.1            |    |
| UEL211-202D1W3 | FL211D1                      |                |    |
| UEL211-203D1W3 | FL211D1                      |                |    |
| UEL212D1W3     | FL212D1                      | 4.1            |    |
| UEL212-204D1W3 | FL212D1                      |                |    |
| UEL212-205D1W3 | FL212D1                      | 9.0            |    |
| UEL212-206D1W3 | FL212D1                      |                |    |
| UEL212-207D1W3 | FL212D1                      |                |    |
| UEL213D1W3     | FL213D1                      | 5.5            |    |
| UEL213-208D1W3 | FL213D1                      | 12             |    |
| UEL213-209D1W3 | FL213D1                      |                |    |
| UEL214D1W3     | FL214D1                      | 5.8            |    |
| UEL214-210D1W3 | FL214D1                      |                |    |
| UEL214-211D1W3 | FL214D1                      | 13             |    |
| UEL214-212D1W3 | FL214D1                      |                |    |
| UEL215D1W3     | FL215D1                      | 6.3            |    |
| UEL215-213D1W3 | FL215D1                      |                |    |
| UEL215-214D1W3 | FL215D1                      | 14             |    |
| UEL215-215D1W3 | FL215D1                      |                |    |
| UEL215-300D1W3 | FL215D1                      |                |    |



# Rhombus flanged units cast housing Eccentric locking collar type



| Shaft<br>dia.                                                                                                                            | Unit number <sup>1)</sup>                                                                    | Nominal dimensions              |                                 |                                |                                |                                 |                                |                                 |                                 |                |       |                                 | Bolt<br>size                  |
|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------|---------------------------------|--------------------------------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|---------------------------------|----------------|-------|---------------------------------|-------------------------------|
|                                                                                                                                          |                                                                                              | H                               | J                               | A <sub>2</sub>                 | A <sub>1</sub>                 | mm<br>A                         | inch<br>N                      | L                               | A <sub>0</sub>                  | B <sub>1</sub> | S     | F<br>min.                       |                               |
| 25<br>1 <sup>3</sup> / <sub>16</sub><br>7 <sup>7</sup> / <sub>8</sub><br>15 <sup>15</sup> / <sub>16</sub><br>1                           | UELFL305D1W3<br>UELFL305-013D1W3<br>UELFL305-014D1W3<br>UELFL305-015D1W3<br>UELFL305-100D1W3 | 150                             | 113                             | 16                             | 13                             | 29                              | 19                             | 80                              | 46.1                            | 46.8           | 16.7  | 41                              | M16                           |
|                                                                                                                                          |                                                                                              | 5 <sup>29</sup> / <sub>32</sub> | 4 <sup>29</sup> / <sub>64</sub> | 5 <sup>5</sup> / <sub>8</sub>  | 1 <sup>1</sup> / <sub>2</sub>  | 1 <sup>5</sup> / <sub>32</sub>  | 3 <sup>3</sup> / <sub>4</sub>  | 3 <sup>5</sup> / <sub>32</sub>  | 1 <sup>13</sup> / <sub>16</sub> | 1.843          | 0.657 | 1 <sup>39</sup> / <sub>64</sub> | 5 <sup>5</sup> / <sub>8</sub> |
| 30<br>1 <sup>1</sup> / <sub>16</sub><br>1 <sup>1</sup> / <sub>8</sub><br>1 <sup>3</sup> / <sub>16</sub>                                  | UELFL306D1W3<br>UELFL306-101D1W3<br>UELFL306-102D1W3<br>UELFL306-103D1W3                     | 180                             | 134                             | 18                             | 15                             | 32                              | 23                             | 90                              | 50.5                            | 50             | 17.5  | 49                              | M20                           |
|                                                                                                                                          |                                                                                              | 7 <sup>3</sup> / <sub>32</sub>  | 5 <sup>9</sup> / <sub>32</sub>  | 4 <sup>5</sup> / <sub>64</sub> | 1 <sup>9</sup> / <sub>32</sub> | 1 <sup>1</sup> / <sub>4</sub>   | 2 <sup>9</sup> / <sub>32</sub> | 3 <sup>17</sup> / <sub>32</sub> | 1 <sup>63</sup> / <sub>64</sub> | 1.969          | 0.689 | 1 <sup>15</sup> / <sub>16</sub> | 3 <sup>3</sup> / <sub>4</sub> |
| 35<br>1 <sup>1</sup> / <sub>4</sub><br>1 <sup>5</sup> / <sub>16</sub><br>1 <sup>3</sup> / <sub>8</sub><br>1 <sup>7</sup> / <sub>16</sub> | UELFL307D1W3<br>UELFL307-104D1W3<br>UELFL307-105D1W3<br>UELFL307-106D1W3<br>UELFL307-107D1W3 | 185                             | 141                             | 20                             | 16                             | 36                              | 23                             | 100                             | 53.3                            | 51.6           | 18.3  | —                               | M20                           |
|                                                                                                                                          |                                                                                              | 7 <sup>9</sup> / <sub>32</sub>  | 5 <sup>35</sup> / <sub>64</sub> | 2 <sup>5</sup> / <sub>32</sub> | 5 <sup>5</sup> / <sub>8</sub>  | 1 <sup>13</sup> / <sub>32</sub> | 2 <sup>9</sup> / <sub>32</sub> | 3 <sup>15</sup> / <sub>16</sub> | 2 <sup>3</sup> / <sub>32</sub>  | 2.031          | 0.720 | —                               | 3 <sup>3</sup> / <sub>4</sub> |
| 40<br>1 <sup>1</sup> / <sub>2</sub><br>1 <sup>9</sup> / <sub>16</sub>                                                                    | UELFL308D1W3<br>UELFL308-108D1W3<br>UELFL308-109D1W3                                         | 200                             | 158                             | 23                             | 17                             | 40                              | 23                             | 112                             | 60.3                            | 57.1           | 19.8  | —                               | M20                           |
|                                                                                                                                          |                                                                                              | 7 <sup>7</sup> / <sub>8</sub>   | 6 <sup>7</sup> / <sub>32</sub>  | 2 <sup>9</sup> / <sub>32</sub> | 2 <sup>1</sup> / <sub>32</sub> | 1 <sup>9</sup> / <sub>16</sub>  | 2 <sup>9</sup> / <sub>32</sub> | 4 <sup>13</sup> / <sub>32</sub> | 2 <sup>3</sup> / <sub>8</sub>   | 2.248          | 0.780 | —                               | 3 <sup>3</sup> / <sub>4</sub> |
| 45<br>1 <sup>5</sup> / <sub>8</sub><br>1 <sup>11</sup> / <sub>16</sub><br>1 <sup>3</sup> / <sub>4</sub>                                  | UELFL309D1W3<br>UELFL309-110D1W3<br>UELFL309-111D1W3<br>UELFL309-112D1W3                     | 230                             | 177                             | 25                             | 18                             | 44                              | 25                             | 125                             | 63.9                            | 58.7           | 19.8  | —                               | M22                           |
|                                                                                                                                          |                                                                                              | 9 <sup>1</sup> / <sub>16</sub>  | 6 <sup>31</sup> / <sub>32</sub> | 6 <sup>3</sup> / <sub>64</sub> | 2 <sup>3</sup> / <sub>32</sub> | 1 <sup>23</sup> / <sub>32</sub> | 6 <sup>3</sup> / <sub>64</sub> | 4 <sup>29</sup> / <sub>32</sub> | 2 <sup>33</sup> / <sub>64</sub> | 2.311          | 0.780 | —                               | 7 <sup>7</sup> / <sub>8</sub> |
| 50<br>1 <sup>13</sup> / <sub>16</sub><br>1 <sup>7</sup> / <sub>8</sub><br>1 <sup>15</sup> / <sub>16</sub>                                | UELFL310D1W3<br>UELFL310-113D1W3<br>UELFL310-114D1W3<br>UELFL310-115D1W3                     | 240                             | 187                             | 28                             | 19                             | 48                              | 25                             | 140                             | 70                              | 66.6           | 24.6  | —                               | M22                           |
|                                                                                                                                          |                                                                                              | 9 <sup>7</sup> / <sub>16</sub>  | 7 <sup>23</sup> / <sub>64</sub> | 1 <sup>7</sup> / <sub>64</sub> | 3 <sup>3</sup> / <sub>4</sub>  | 1 <sup>7</sup> / <sub>8</sub>   | 6 <sup>3</sup> / <sub>64</sub> | 5 <sup>1</sup> / <sub>2</sub>   | 2 <sup>3</sup> / <sub>4</sub>   | 2.622          | 0.969 | —                               | 7 <sup>7</sup> / <sub>8</sub> |
| 55<br>2<br>2 <sup>1</sup> / <sub>16</sub><br>2 <sup>1</sup> / <sub>8</sub><br>2 <sup>3</sup> / <sub>16</sub>                             | UELFL311D1W3<br>UELFL311-200D1W3<br>UELFL311-201D1W3<br>UELFL311-202D1W3<br>UELFL311-203D1W3 | 250                             | 198                             | 30                             | 20                             | 52                              | 25                             | 150                             | 75.2                            | 73             | 27.8  | —                               | M22                           |
|                                                                                                                                          |                                                                                              | 9 <sup>27</sup> / <sub>32</sub> | 7 <sup>51</sup> / <sub>64</sub> | 1 <sup>3</sup> / <sub>16</sub> | 2 <sup>5</sup> / <sub>32</sub> | 2 <sup>1</sup> / <sub>16</sub>  | 6 <sup>3</sup> / <sub>64</sub> | 5 <sup>29</sup> / <sub>32</sub> | 2 <sup>61</sup> / <sub>64</sub> | 2.874          | 1.094 | —                               | 7 <sup>7</sup> / <sub>8</sub> |

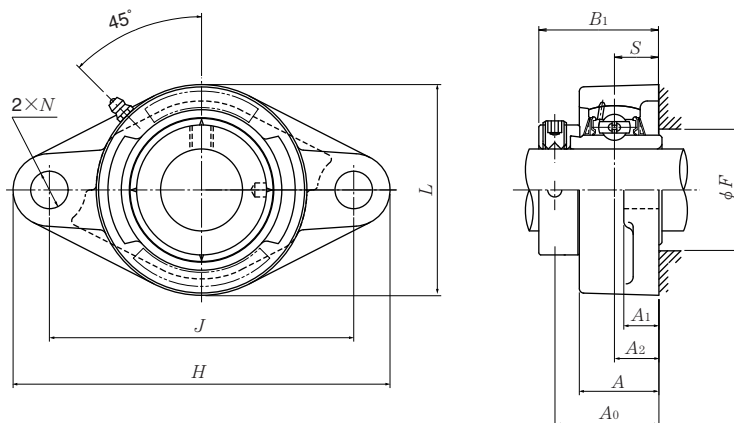
Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

2) Inner race face does not protrude from the housing face except UELFL305 and UELFL316.

Note: Please refer to page 36 for size of grease fitting.

| Bearing number | Housing number <sup>1)</sup> | Mass (approx.) |    |
|----------------|------------------------------|----------------|----|
|                |                              | kg             | lb |
| UEL305D1W3     | FL305D1                      | 1.0            |    |
| UEL305-013D1W3 | FL305D1                      |                |    |
| UEL305-014D1W3 | FL305D1                      | 2.2            |    |
| UEL305-015D1W3 | FL305D1                      |                |    |
| UEL305-100D1W3 | FL305D1                      |                |    |
| UEL306D1W3     | FL306D1                      | 1.6            |    |
| UEL306-101D1W3 | FL306D1                      |                |    |
| UEL306-102D1W3 | FL306D1                      | 3.5            |    |
| UEL306-103D1W3 | FL306D1                      |                |    |
| UEL307D1W3     | FL307D1                      | 1.8            |    |
| UEL307-104D1W3 | FL307D1                      |                |    |
| UEL307-105D1W3 | FL307D1                      | 4.0            |    |
| UEL307-106D1W3 | FL307D1                      |                |    |
| UEL307-107D1W3 | FL307D1                      |                |    |
| UEL308D1W3     | FL308D1                      | 2.3            |    |
| UEL308-108D1W3 | FL308D1                      | 5.1            |    |
| UEL308-109D1W3 | FL308D1                      |                |    |
| UEL309D1W3     | FL309D1                      | 3.1            |    |
| UEL309-110D1W3 | FL309D1                      |                |    |
| UEL309-111D1W3 | FL309D1                      | 6.8            |    |
| UEL309-112D1W3 | FL309D1                      |                |    |
| UEL310D1W3     | FL310D1                      | 4.2            |    |
| UEL310-113D1W3 | FL310D1                      |                |    |
| UEL310-114D1W3 | FL310D1                      | 9.3            |    |
| UEL310-115D1W3 | FL310D1                      |                |    |
| UEL311D1W3     | FL311D1                      | 4.9            |    |
| UEL311-200D1W3 | FL311D1                      |                |    |
| UEL311-201D1W3 | FL311D1                      | 11             |    |
| UEL311-202D1W3 | FL311D1                      |                |    |
| UEL311-203D1W3 | FL311D1                      |                |    |

# Rhombus flanged units cast housing Eccentric locking collar type



| Shaft<br>dia. | Unit number <sup>1)</sup> | Nominal dimensions |          |                |                |         |           |         |                |                |       |           | Bolt<br>size |
|---------------|---------------------------|--------------------|----------|----------------|----------------|---------|-----------|---------|----------------|----------------|-------|-----------|--------------|
|               |                           | H                  | J        | A <sub>2</sub> | A <sub>1</sub> | mm<br>A | inch<br>N | L       | A <sub>0</sub> | B <sub>1</sub> | S     | F<br>min. |              |
| 60            | UELFL312D1W3              | 270                | 212      | 33             | 22             | 56      | 31        | 160     | 81.45          | 79.4           | 30.95 | —         | M27          |
| 2 1/4         | UELFL312-204D1W3          |                    |          |                |                |         |           |         |                |                |       |           |              |
| 2 5/16        | UELFL312-205D1W3          | 10 5/8             | 8 11/32  | 1 19/64        | 7/8            | 2 7/32  | 1 7/32    | 6 5/16  | 3 13/64        | 3.126          | 1.219 | —         | 1            |
| 2 3/8         | UELFL312-206D1W3          |                    |          |                |                |         |           |         |                |                |       |           |              |
| 2 7/16        | UELFL312-207D1W3          |                    |          |                |                |         |           |         |                |                |       |           |              |
| 65            | UELFL313D1W3              | 295                | 240      | 33             | 25             | 58      | 31        | 175     | 86.15          | 85.7           | 32.55 | 93        | M27          |
| 2 1/2         | UELFL313-208D1W3          | 11 5/8             | 9 29/64  | 1 19/64        | 31/32          | 2 9/32  | 1 7/32    | 6 7/8   | 3 25/64        | 3.374          | 1.281 | 3 21/32   | 1            |
| 2 9/16        | UELFL313-209D1W3          |                    |          |                |                |         |           |         |                |                |       |           |              |
| 70            | UELFL314D1W3              | 315                | 250      | 36             | 28             | 61      | 35        | 185     | 93.95          | 92.1           | 34.15 | —         | M30          |
| 2 5/8         | UELFL314-210D1W3          |                    |          |                |                |         |           |         |                |                |       |           |              |
| 2 11/16       | UELFL314-211D1W3          | 12 13/32           | 9 27/32  | 1 27/64        | 1 3/32         | 2 13/32 | 1 3/8     | 7 9/32  | 3 45/64        | 3.626          | 1.344 | —         | 1 1/8        |
| 2 3/4         | UELFL314-212D1W3          |                    |          |                |                |         |           |         |                |                |       |           |              |
| 75            | UELFL315D1W3              | 320                | 260      | 39             | 30             | 66      | 35        | 195     | 101.7          | 100            | 37.3  | 106       | M30          |
| 2 13/16       | UELFL315-213D1W3          |                    |          |                |                |         |           |         |                |                |       |           |              |
| 2 7/8         | UELFL315-214D1W3          | 12 19/32           | 10 15/64 | 1 17/32        | 1 3/16         | 2 19/32 | 1 3/8     | 7 11/16 | 4              | 3.937          | 1.469 | 4 11/64   | 1 1/8        |
| 2 15/16       | UELFL315-215D1W3          |                    |          |                |                |         |           |         |                |                |       |           |              |
| 3             | UELFL315-300D1W3          |                    |          |                |                |         |           |         |                |                |       |           |              |
| 80            | UELFL316D1W3              | 355                | 285      | 38             | 32             | 68      | 38        | 210     | 103.9          | 106.4          | 40.5  | 112       | M33          |
| 3 1/16        | UELFL316-301D1W3          |                    |          |                |                |         |           |         |                |                |       |           |              |
| 3 1/8         | UELFL316-302D1W3          | 13 31/32           | 11 7/32  | 1 1/2          | 1 1/4          | 2 11/16 | 1 1/2     | 8 9/32  | 4 3/32         | 4.189          | 1.594 | 4 13/32   | 1 1/4        |
| 3 3/16        | UELFL316-303D1W3          |                    |          |                |                |         |           |         |                |                |       |           |              |
| 85            | UELFL317D1W3              | 370                | 300      | 44             | 32             | 74      | 38        | 220     | 111.45         | 109.5          | 42.05 | 119       | M33          |
| 3 1/4         | UELFL317-304D1W3          |                    |          |                |                |         |           |         |                |                |       |           |              |
| 3 5/16        | UELFL317-305D1W3          | 14 9/16            | 11 13/16 | 1 47/64        | 1 1/4          | 2 29/32 | 1 1/2     | 8 21/32 | 4 25/64        | 4.311          | 1.656 | 4 11/16   | 1 1/4        |
| 3 7/16        | UELFL317-307D1W3          |                    |          |                |                |         |           |         |                |                |       |           |              |
| 90            | UELFL318D1W3              | 385                | 315      | 44             | 36             | 76      | 38        | 235     | 116.25         | 115.9          | 43.65 | 125       | M33          |
| 3 7/16        | UELFL318-307D1W3          | 15 5/32            | 12 13/32 | 1 47/64        | 1 13/32        | 3       | 1 1/2     | 9 1/4   | 4 37/64        | 4.563          | 1.719 | 4 59/64   | 1 1/4        |
| 3 1/2         | UELFL318-308D1W3          |                    |          |                |                |         |           |         |                |                |       |           |              |

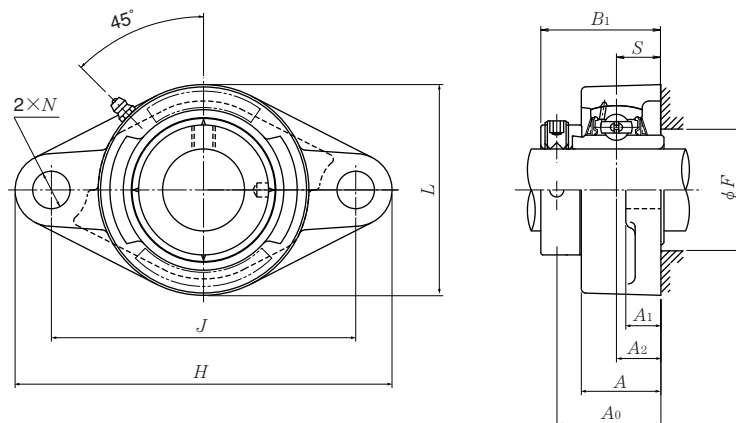
Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

2) Inner race face does not protrude from the housing face except UELFL305 and UELFL316.

Note: Please refer to page 36 for size of grease fitting.

| Bearing number | Housing number <sup>1)</sup> | Mass (approx.) |    |
|----------------|------------------------------|----------------|----|
|                |                              | kg             | lb |
| UEL312D1W3     | FL312D1                      | 6.1            |    |
| UEL312-204D1W3 | FL312D1                      |                |    |
| UEL312-205D1W3 | FL312D1                      | 13             |    |
| UEL312-206D1W3 | FL312D1                      |                |    |
| UEL312-207D1W3 | FL312D1                      |                |    |
| UEL313D1W3     | FL313D1                      | 8.0            |    |
| UEL313-208D1W3 | FL313D1                      | 18             |    |
| UEL313-209D1W3 | FL313D1                      |                |    |
| UEL314D1W3     | FL314D1                      | 9.2            |    |
| UEL314-210D1W3 | FL314D1                      |                |    |
| UEL314-211D1W3 | FL314D1                      | 20             |    |
| UEL314-212D1W3 | FL314D1                      |                |    |
| UEL315D1W3     | FL315D1                      | 10             |    |
| UEL315-213D1W3 | FL315D1                      |                |    |
| UEL315-214D1W3 | FL315D1                      | 22             |    |
| UEL315-215D1W3 | FL315D1                      |                |    |
| UEL315-300D1W3 | FL315D1                      |                |    |
| UEL316D1W3     | FL316D1                      | 14             |    |
| UEL316-301D1W3 | FL316D1                      |                |    |
| UEL316-302D1W3 | FL316D1                      | 31             |    |
| UEL316-303D1W3 | FL316D1                      |                |    |
| UEL317D1W3     | FL317D1                      | 16             |    |
| UEL317-304D1W3 | FL317D1                      |                |    |
| UEL317-305D1W3 | FL317D1                      | 35             |    |
| UEL317-307D1W3 | FL317D1                      |                |    |
| UEL318D1W3     | FL318D1                      | 19             |    |
| UEL318-307D1W3 | FL318D1                      | 42             |    |
| UEL318-308D1W3 | FL318D1                      |                |    |

# Rhombus flanged units cast housing Eccentric locking collar type



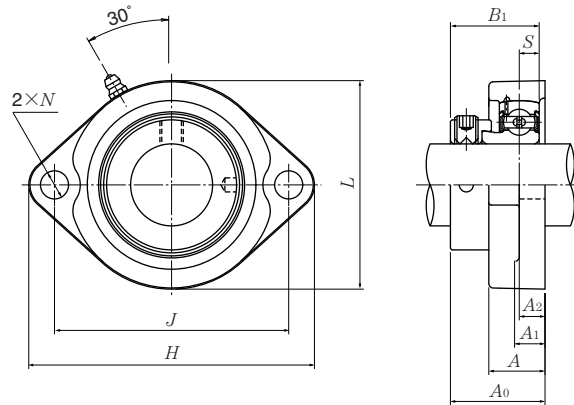
| Shaft<br>dia.<br><br>mm<br><br>inch                                                                             | Unit number <sup>1) 2)</sup>                                                                 | Nominal dimensions               |                                  |                                 |                                |                                 |                                 |                                 |                                 |                       |          |                  |                               | Bolt<br>size<br><br>mm |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------|----------------------------------|---------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------|----------|------------------|-------------------------------|------------------------|
|                                                                                                                 |                                                                                              | mm                               |                                  |                                 |                                |                                 |                                 | inch                            |                                 |                       |          |                  |                               |                        |
|                                                                                                                 |                                                                                              | <i>H</i>                         | <i>J</i>                         | <i>A</i> <sub>2</sub>           | <i>A</i> <sub>1</sub>          | <i>A</i>                        | <i>N</i>                        | <i>L</i>                        | <i>A</i> <sub>0</sub>           | <i>B</i> <sub>1</sub> | <i>S</i> | <i>F</i><br>min. |                               |                        |
| 95<br>3 <sup>5</sup> / <sub>8</sub><br>3 <sup>11</sup> / <sub>16</sub><br>3 <sup>3</sup> / <sub>4</sub>         | UELFL319D1W3<br>UELFL319-310D1W3<br>UELFL319-311D1W3<br>UELFL319-312D1W3                     | 405                              | 330                              | 59                              | 40                             | 94                              | 41                              | 250                             | 142.4                           | 122.3                 | 38.9     | —                | M36                           |                        |
|                                                                                                                 |                                                                                              | 15 <sup>15</sup> / <sub>16</sub> | 12 <sup>63</sup> / <sub>64</sub> | 2 <sup>21</sup> / <sub>64</sub> | 1 <sup>9</sup> / <sub>16</sub> | 3 <sup>11</sup> / <sub>16</sub> | 1 <sup>39</sup> / <sub>64</sub> | 9 <sup>27</sup> / <sub>32</sub> | 5 <sup>39</sup> / <sub>64</sub> | 4.815                 | 1.531    | —                | 1 <sup>3</sup> / <sub>8</sub> |                        |
| 100<br>3 <sup>13</sup> / <sub>16</sub><br>3 <sup>7</sup> / <sub>8</sub><br>3 <sup>15</sup> / <sub>16</sub><br>4 | UELFL320D1W3<br>UELFL320-313D1W3<br>UELFL320-314D1W3<br>UELFL320-315D1W3<br>UELFL320-400D1W3 | 440                              | 360                              | 59                              | 40                             | 94                              | 44                              | 270                             | 137.6                           | 128.6                 | 50       | —                | M39                           |                        |
|                                                                                                                 |                                                                                              | 17 <sup>5</sup> / <sub>16</sub>  | 14 <sup>11</sup> / <sub>64</sub> | 2 <sup>21</sup> / <sub>64</sub> | 1 <sup>9</sup> / <sub>16</sub> | 3 <sup>11</sup> / <sub>16</sub> | 1 <sup>47</sup> / <sub>64</sub> | 10 <sup>5</sup> / <sub>8</sub>  | 5 <sup>27</sup> / <sub>64</sub> | 5.063                 | 1.969    | —                | 1 <sup>1</sup> / <sub>2</sub> |                        |
| 105                                                                                                             | UELFL321D1W3                                                                                 | 440                              | 360                              | 59                              | 40                             | 94                              | 44                              | 270                             | 150.3                           | 139.7                 | 48.4     | —                | M39                           |                        |
| 110                                                                                                             | UELFL322D1W3                                                                                 | 470                              | 390                              | 60                              | 42                             | 96                              | 44                              | 300                             | 152.1                           | 141.3                 | 49.2     | —                | M39                           |                        |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

| Bearing number | Housing <sup>1)</sup><br>number | Mass<br>(approx.) |
|----------------|---------------------------------|-------------------|
|                | kg lb                           |                   |
| UEL319D1W3     | FL319D1                         | 24                |
| UEL319-310D1W3 | FL319D1                         |                   |
| UEL319-311D1W3 | FL319D1                         | 53                |
| UEL319-312D1W3 | FL319D1                         |                   |
| UEL320D1W3     | FL320D1                         | 28                |
| UEL320-313D1W3 | FL320D1                         |                   |
| UEL320-314D1W3 | FL320D1                         | 62                |
| UEL320-315D1W3 | FL320D1                         |                   |
| UEL320-400D1W3 | FL320D1                         |                   |
| UEL321D1W3     | FL321D1                         | 30                |
| UEL322D1W3     | FL322D1                         | 36                |

**Light rhombus flanged units cast housing**  
**Eccentric locking collar type**



| Shaft<br>dia.                            | Unit number <sup>1)</sup>                                                                    | Nominal dimensions |                 |                       |                       |             |             |               |                       |                       |              | Bolt<br>size | Bearing number <sup>1)</sup>                                                       |
|------------------------------------------|----------------------------------------------------------------------------------------------|--------------------|-----------------|-----------------------|-----------------------|-------------|-------------|---------------|-----------------------|-----------------------|--------------|--------------|------------------------------------------------------------------------------------|
|                                          |                                                                                              | mm                 |                 |                       |                       |             | inch        |               |                       |                       |              |              |                                                                                    |
|                                          |                                                                                              | <i>H</i>           | <i>J</i>        | <i>A</i> <sub>2</sub> | <i>A</i> <sub>1</sub> | <i>A</i>    | <i>N</i>    | <i>L</i>      | <i>A</i> <sub>0</sub> | <i>B</i> <sub>1</sub> | <i>S</i>     |              |                                                                                    |
| mm<br>inch                               |                                                                                              |                    |                 |                       |                       |             |             |               |                       |                       |              | mm<br>inch   |                                                                                    |
| 12<br>1/2                                | AELFB201D1W3<br>AELFB201-008D1W3                                                             | 81<br>3 3/16       | 63.5<br>2 1/2   | 9.5<br>3/8            | 9.5<br>3/8            | 18<br>23/32 | 7<br>9/32   | 56<br>2 7/32  | 31.6<br>1 1/4         | 28.6<br>1.126         | 6.5<br>0.256 | M6<br>1/4    | AEL201D1W3<br>AEL201-008D1W3                                                       |
| 15<br>9/16<br>5/8                        | AELFB202D1W3<br>AELFB202-009D1W3<br>AELFB202-010D1W3                                         | 81<br>3 3/16       | 63.5<br>2 1/2   | 9.5<br>3/8            | 9.5<br>3/8            | 18<br>23/32 | 7<br>9/32   | 56<br>2 7/32  | 31.6<br>1 1/4         | 28.6<br>1.126         | 6.5<br>0.256 | M6<br>1/4    | AEL202D1W3<br>AEL202-009D1W3<br>AEL202-010D1W3                                     |
| 17<br>1 1/16                             | AELFB203D1W3<br>AELFB203-011D1W3                                                             | 81<br>3 3/16       | 63.5<br>2 1/2   | 9.5<br>3/8            | 9.5<br>3/8            | 18<br>23/32 | 7<br>9/32   | 56<br>2 7/32  | 31.6<br>1 1/4         | 28.6<br>1.126         | 6.5<br>0.256 | M6<br>1/4    | AEL203D1W3<br>AEL203-011D1W3                                                       |
| 20<br>3/4                                | AELFB204D1W3<br>AELFB204-012D1W3                                                             | 90<br>3 35/64      | 71.5<br>2 13/16 | 11<br>7/16            | 11<br>7/16            | 20<br>25/32 | 10<br>25/64 | 61<br>2 13/32 | 34.5<br>1 23/64       | 31<br>1.220           | 7.5<br>0.295 | M8<br>5/16   | AEL204D1W3<br>AEL204-012D1W3                                                       |
| 25<br>13/16<br>7/8<br>15/16<br>1         | AELFB205D1W3<br>AELFB205-013D1W3<br>AELFB205-014D1W3<br>AELFB205-015D1W3<br>AELFB205-100D1W3 | 95<br>3 3/4        | 76<br>2 63/64   | 11<br>7/16            | 11<br>7/16            | 20<br>25/32 | 10<br>25/64 | 64<br>2 17/32 | 34.5<br>1 23/64       | 31<br>1.220           | 7.5<br>0.295 | M8<br>5/16   | AEL205D1W3<br>AEL205-013D1W3<br>AEL205-014D1W3<br>AEL205-015D1W3<br>AEL205-100D1W3 |
| 30<br>1 1/16<br>1 1/8<br>1 3/16<br>1 1/4 | AELFB206D1W3<br>AELFB206-101D1W3<br>AELFB206-102D1W3<br>AELFB206-103D1W3<br>AELFB206-104D1W3 | 113<br>4 7/16      | 90.5<br>3 9/16  | 12<br>15/32           | 12<br>15/32           | 22.5<br>7/8 | 12<br>15/32 | 76<br>3       | 38.7<br>1 17/32       | 35.7<br>1.406         | 9<br>0.354   | M10<br>3/8   | AEL206D1W3<br>AEL206-101D1W3<br>AEL206-102D1W3<br>AEL206-103D1W3<br>AEL206-104D1W3 |
| 35<br>1 1/4<br>1 5/16<br>1 3/8<br>1 7/16 | AELFB207D1W3<br>AELFB207-104D1W3<br>AELFB207-105D1W3<br>AELFB207-106D1W3<br>AELFB207-107D1W3 | 122<br>4 51/64     | 100<br>3 15/16  | 11<br>7/16            | 13<br>1/2             | 24<br>15/16 | 12<br>15/32 | 89<br>3 1/2   | 40.4<br>1 19/32       | 38.9<br>1.531         | 9.5<br>0.374 | M10<br>3/8   | AEL207D1W3<br>AEL207-104D1W3<br>AEL207-105D1W3<br>AEL207-106D1W3<br>AEL207-107D1W3 |

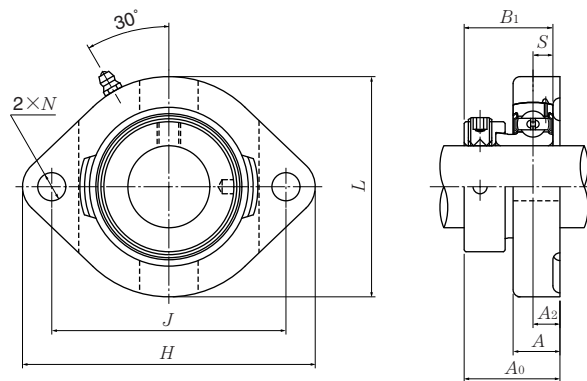
Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

| Housing<br>number <sup>1)</sup> | Mass<br>(approx.) |
|---------------------------------|-------------------|
|                                 | kg lb             |
| FB201D1                         | 0.3               |
| FB201D1                         | 0.7               |
| FB201D1                         | 0.3               |
| FB201D1                         | 0.7               |
| FB201D1                         | 0.3               |
| FB201D1                         | 0.7               |
| FB204D1                         | 0.4               |
| FB204D1                         | 0.9               |
| FB205D1                         | 0.4               |
| FB205D1                         | 0.9               |
| FB206D1                         | 0.6               |
| FB206D1                         | 1.3               |
| FB207D1                         | 0.9               |
| FB207D1                         | 2.0               |



**Light rhombus flanged units cast housing**  
**Eccentric locking collar type**

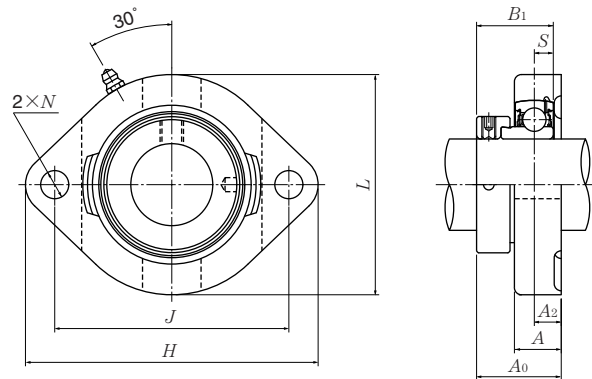


| Shaft<br>dia. | Unit number <sup>1)</sup> | Nominal dimensions |          |                       |          |          |          |                       |                       |          |            | Bolt<br>size      | Bearing <sup>1)</sup><br>number | Housing <sup>1)</sup><br>number | Mass<br>(approx.) |    |
|---------------|---------------------------|--------------------|----------|-----------------------|----------|----------|----------|-----------------------|-----------------------|----------|------------|-------------------|---------------------------------|---------------------------------|-------------------|----|
|               |                           | mm                 |          |                       |          |          | inch     |                       |                       |          |            |                   |                                 |                                 |                   | kg |
|               |                           | <i>H</i>           | <i>J</i> | <i>A</i> <sub>2</sub> | <i>A</i> | <i>N</i> | <i>L</i> | <i>A</i> <sub>0</sub> | <i>B</i> <sub>1</sub> | <i>S</i> | mm<br>inch |                   |                                 |                                 |                   |    |
| 12            | A-AELFD201D1W3            | 81                 | 63       | 8.5                   | 15       | 7        | 59       | 30.6                  | 28.6                  | 6.5      | M 6        | A-AEL201D1W3      | FD201D1                         | 0.3                             |                   |    |
| 1½            | A-AELFD201-008D1W3        | 3⅜                 | 2⅜       | 21⁄64                 | 19⁄32    | 9⁄32     | 2⅝       | 1⅓                    | 1.126                 | 0.256    | ¼          | A-AEL 201-008D1W3 | FD201D1                         | 0.7                             |                   |    |
| 15            | A-AELFD202D1W3            | 81                 | 63       | 8.5                   | 15       | 7        | 59       | 30.6                  | 28.6                  | 6.5      | M 6        | A-AEL202D1W3      | FD201D1                         | 0.3                             |                   |    |
| 9⁄16          | A-AELFD202-009D1W3        | 3⅜                 | 2⅜       | 21⁄64                 | 19⁄32    | 9⁄32     | 2⅝       | 1⅓                    | 1.126                 | 0.256    | ¼          | A-AEL202-009D1W3  | FD201D1                         | 0.7                             |                   |    |
| 5⁄8           | A-AELFD202-010D1W3        |                    |          |                       |          |          |          |                       |                       |          |            | A-AEL202-010D1W3  | FD201D1                         |                                 |                   |    |
| 17            | A-AELFD203D1W3            | 81                 | 63       | 8.5                   | 15       | 7        | 59       | 30.6                  | 28.6                  | 6.5      | M 6        | A-AEL203D1W3      | FD201D1                         | 0.3                             |                   |    |
| 1⅞            | A-AELFD203-011D1W3        | 3⅜                 | 2⅜       | 21⁄64                 | 19⁄32    | 9⁄32     | 2⅝       | 1⅓                    | 1.126                 | 0.256    | ¼          | A-AEL203D1-011W3  | FD201D1                         | 0.7                             |                   |    |
| 20            | A-AELFD204D1W3            | 90                 | 71       | 9.5                   | 17       | 10       | 67       | 33                    | 31                    | 7.5      | M 8        | A-AEL204D1W3      | FD204D1                         | 0.4                             |                   |    |
| ¾             | A-AELFD204-012D1W3        | 3⅞                 | 2⅝       | ⅜                     | 2⅓       | 25⁄64    | 2⅝       | 1⅑                    | 1.220                 | 0.295    | 5⁄16       | A-AEL204-012D1W3  | FD204D1                         | 0.9                             |                   |    |
| 25            | A-AELFD205D1W3            | 95                 | 76       | 9.5                   | 17       | 10       | 71       | 33                    | 31                    | 7.5      | M 8        | A-AEL205D1W3      | FD205D1                         | 0.5                             |                   |    |
| 13⁄16         | A-AELFD205-013D1W3        |                    |          |                       |          |          |          |                       |                       |          |            | A-AEL205-013D1W3  | FD205D1                         |                                 |                   |    |
| 7⁄8           | A-AELFD205-014D1W3        | 3¾                 | 263⁄64   | ⅜                     | 2⅓       | 25⁄64    | 225⁄32   | 1⅑                    | 1.220                 | 0.295    | 5⁄16       | A-AEL205-014D1W3  | FD205D1                         | 1.1                             |                   |    |
| 15⁄16         | A-AELFD205-015D1W3        |                    |          |                       |          |          |          |                       |                       |          |            | A-AEL205-015D1W3  | FD205D1                         |                                 |                   |    |
| 1             | A-AELFD205-100D1W3        |                    |          |                       |          |          |          |                       |                       |          |            | A-AEL205-100D1W3  | FD205D1                         |                                 |                   |    |
| 30            | A-AELFD206D1W3            | 113                | 90       | 12                    | 21       | 12       | 84       | 38.7                  | 35.7                  | 9        | M10        | A-AEL206D1W3      | FD206D1                         | 0.8                             |                   |    |
| 1⅞            | A-AELFD206-101D1W3        |                    |          |                       |          |          |          |                       |                       |          |            | A-AEL206-101D1W3  | FD206D1                         |                                 |                   |    |
| 1⅞            | A-AELFD206-102D1W3        | 47⁄16              | 3⅞       | 15⁄32                 | 13⁄16    | 15⁄32    | 35⁄16    | 1⅞                    | 1.406                 | 0.354    | ⅜          | A-AEL206-102D1W3  | FD206D1                         | 1.8                             |                   |    |
| 13⁄16         | A-AELFD206-103D1W3        |                    |          |                       |          |          |          |                       |                       |          |            | A-AEL206-103D1W3  | FD206D1                         |                                 |                   |    |
| 1¼            | A-AELFD206-104D1W3        |                    |          |                       |          |          |          |                       |                       |          |            | A-AEL206-104D1W3  | FD206D1                         |                                 |                   |    |
| 35            | A-AELFD207D1W3            | 125                | 100      | 12.5                  | 22       | 12       | 94       | 41.9                  | 38.9                  | 9.5      | M10        | A-AEL207D1W3      | FD207D1                         | 1.1                             |                   |    |
| 1¼            | A-AELFD207-104D1W3        |                    |          |                       |          |          |          |                       |                       |          |            | A-AEL207-104D1W3  | FD207D1                         |                                 |                   |    |
| 15⁄16         | A-AELFD207-105D1W3        | 429⁄32             | 315⁄16   | 31⁄64                 | 7⁄8      | 15⁄32    | 311⁄16   | 121⁄32                | 1.531                 | 0.374    | ⅜          | A-AEL207-105D1W3  | FD207D1                         | 2.4                             |                   |    |
| 1⅜            | A-AELFD207-106D1W3        |                    |          |                       |          |          |          |                       |                       |          |            | A-AEL207-106D1W3  | FD207D1                         |                                 |                   |    |
| 17⁄16         | A-AELFD207-107D1W3        |                    |          |                       |          |          |          |                       |                       |          |            | A-AEL207-107D1W3  | FD207D1                         |                                 |                   |    |
| 40            | A-AELFD208D1W3            | 148                | 119      | 14.5                  | 25       | 13.5     | 104      | 47.2                  | 43.7                  | 11       | M12        | A-AEL208D1W3      | FD208D1                         | 1.5                             |                   |    |
| 1½            | A-AELFD208-108D1W3        | 553⁄64             | 411⁄16   | 37⁄64                 | 31⁄32    | 17⁄32    | 43⁄32    | 127⁄32                | 1.720                 | 0.433    | 7⁄16       | A-AEL208-108D1W3  | FD208D1                         | 3.3                             |                   |    |
| 19⁄16         | A-AELFD208-109D1W3        |                    |          |                       |          |          |          |                       |                       |          |            | A-AEL208-109D1W3  | FD208D1                         |                                 |                   |    |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without prefix "A-" and suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

**Light rhombus flanged units cast housing**  
**Eccentric locking collar type**

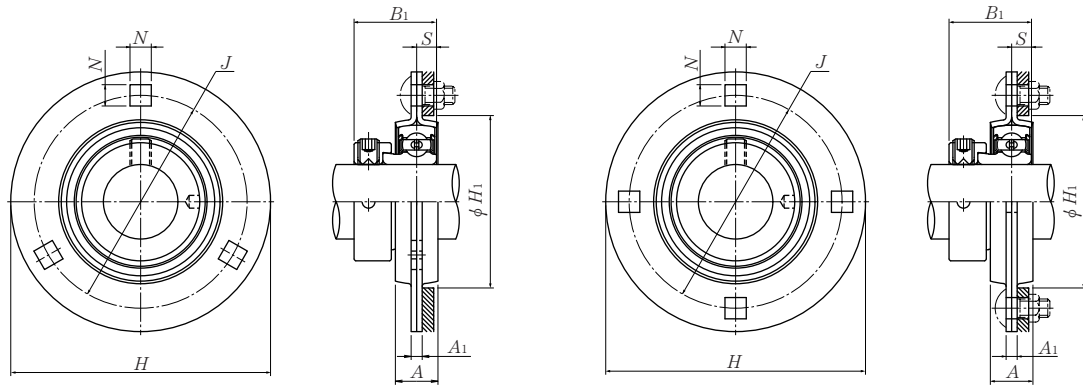


| Shaft<br>dia. | Unit number <sup>1)</sup> | Nominal dimensions |         |                |       |       |         |                |                |       |            | Bolt<br>size     | Bearing <sup>1)</sup><br>number | Housing <sup>1)</sup><br>number | Mass<br>(approx.) |    |
|---------------|---------------------------|--------------------|---------|----------------|-------|-------|---------|----------------|----------------|-------|------------|------------------|---------------------------------|---------------------------------|-------------------|----|
|               |                           | H                  | J       | A <sub>2</sub> | A     | N     | L       | A <sub>0</sub> | B <sub>1</sub> | S     | mm<br>inch |                  |                                 |                                 | kg                | lb |
| 12            | A-JELFD201D1W3            | 81                 | 63      | 8.5            | 15    | 7     | 59      | 30.6           | 28.6           | 6.5   | M 6        | A-JEL201D1W3     | FD201D1                         | 0.3                             |                   |    |
| 1/2           | A-JELFD201-008D1W3        | 3 3/16             | 2 31/64 | 21/64          | 19/32 | 9/32  | 2 5/16  | 1 13/64        | 1.126          | 0.256 | 1/4        | A-JEL201-008D1W3 | FD201D1                         | 0.7                             |                   |    |
| 15            | A-JELFD202D1W3            | 81                 | 63      | 8.5            | 15    | 7     | 59      | 30.6           | 28.6           | 6.5   | M 6        | A-JEL202D1W3     | FD201D1                         | 0.3                             |                   |    |
| 9/16          | A-JELFD202-009D1W3        | 3 3/16             | 2 31/64 | 21/64          | 19/32 | 9/32  | 2 5/16  | 1 13/64        | 1.126          | 0.256 | 1/4        | A-JEL202-009D1W3 | FD201D1                         | 0.7                             |                   |    |
| 5/8           | A-JELFD202-010D1W3        |                    |         |                |       |       |         |                |                |       |            |                  | A-JEL202-010D1W3                | FD201D1                         |                   |    |
| 17            | A-JELFD203D1W3            | 81                 | 63      | 8.5            | 15    | 7     | 59      | 30.6           | 28.6           | 6.5   | M 6        | A-JEL203D1W3     | FD201D1                         | 0.3                             |                   |    |
| 1 1/16        | A-JELFD203-011D1W3        | 3 3/16             | 2 31/64 | 21/64          | 19/32 | 9/32  | 2 5/16  | 1 13/64        | 1.126          | 0.256 | 1/4        | A-JEL203-011D1W3 | FD201D1                         | 0.7                             |                   |    |
| 20            | A-JELFD204D1W3            | 90                 | 71      | 9.5            | 17    | 10    | 67      | 33             | 31             | 7.5   | M 8        | A-JEL204D1W3     | FD204D1                         | 0.4                             |                   |    |
| 3/4           | A-JELFD204-012D1W3        | 3 17/32            | 2 51/64 | 3/8            | 21/32 | 25/64 | 2 5/8   | 1 19/64        | 1.220          | 0.295 | 5/16       | A-JEL204-012D1W3 | FD204D1                         | 0.9                             |                   |    |
| 25            | A-JELFD205D1W3            | 95                 | 76      | 9.5            | 17    | 10    | 71      | 33             | 31             | 7.5   | M 8        | A-JEL205D1W3     | FD205D1                         | 0.5                             |                   |    |
| 13/16         | A-JELFD205-013D1W3        |                    |         |                |       |       |         |                |                |       |            | A-JEL205-013D1W3 | FD205D1                         |                                 |                   |    |
| 7/8           | A-JELFD205-014D1W3        | 3 3/4              | 2 63/64 | 3/8            | 21/32 | 25/64 | 2 25/32 | 1 19/64        | 1.220          | 0.295 | 5/16       | A-JEL205-014D1W3 | FD205D1                         | 0.9                             |                   |    |
| 15/16         | A-JELFD205-015D1W3        |                    |         |                |       |       |         |                |                |       |            | A-JEL205-015D1W3 | FD205D1                         |                                 |                   |    |
| 1             | A-JELFD205-100D1W3        |                    |         |                |       |       |         |                |                |       |            | A-JEL205-100D1W3 | FD205D1                         |                                 |                   |    |
| 30            | A-JELFD206D1W3            | 113                | 90      | 12             | 21    | 12    | 84      | 38.7           | 35.7           | 9     | M10        | A-JEL206D1W3     | FD206D1                         | 0.8                             |                   |    |
| 1 1/16        | A-JELFD206-101D1W3        |                    |         |                |       |       |         |                |                |       |            | A-JEL206-101D1W3 | FD206D1                         |                                 |                   |    |
| 1 1/8         | A-JELFD206-102D1W3        | 4 7/16             | 3 17/32 | 15/32          | 13/16 | 15/32 | 3 5/16  | 1 17/32        | 1.406          | 0.354 | 3/8        | A-JEL206-102D1W3 | FD206D1                         | 1.8                             |                   |    |
| 1 3/16        | A-JELFD206-103D1W3        |                    |         |                |       |       |         |                |                |       |            | A-JEL206-103D1W3 | FD206D1                         |                                 |                   |    |
| 1 1/4         | A-JELFD206-104D1W3        |                    |         |                |       |       |         |                |                |       |            | A-JEL206-104D1W3 | FD206D1                         |                                 |                   |    |
| 35            | A-JELFD207D1W3            | 125                | 100     | 12.5           | 22    | 12    | 94      | 41.9           | 38.9           | 9.5   | M10        | A-JEL207D1W3     | FD207D1                         | 1.1                             |                   |    |
| 1 1/4         | A-JELFD207-104D1W3        |                    |         |                |       |       |         |                |                |       |            | A-JEL207-104D1W3 | FD207D1                         |                                 |                   |    |
| 1 5/16        | A-JELFD207-105D1W3        | 4 29/32            | 3 15/16 | 31/64          | 7/8   | 15/32 | 3 11/16 | 1 21/32        | 1.531          | 0.374 | 3/8        | A-JEL207-105D1W3 | FD207D1                         | 2.4                             |                   |    |
| 1 3/8         | A-JELFD207-106D1W3        |                    |         |                |       |       |         |                |                |       |            | A-JEL207-106D1W3 | FD207D1                         |                                 |                   |    |
| 1 7/16        | A-JELFD207-107D1W3        |                    |         |                |       |       |         |                |                |       |            | A-JEL207-107D1W3 | FD207D1                         |                                 |                   |    |
| 40            | A-JELFD208D1W3            | 148                | 119     | 14.5           | 25    | 13.5  | 104     | 47.2           | 43.7           | 11    | M12        | A-JEL208D1W3     | FD208D1                         | 1.5                             |                   |    |
| 1 1/2         | A-JELFD208-108D1W3        | 5 53/64            | 4 11/16 | 37/64          | 31/32 | 17/32 | 4 3/32  | 1 27/32        | 1.720          | 0.433 | 7/16       | A-JEL208-108D1W3 | FD208D1                         | 3.3                             |                   |    |
| 1 9/16        | A-JELFD208-109D1W3        |                    |         |                |       |       |         |                |                |       |            | A-JEL208-109D1W3 | FD208D1                         |                                 |                   |    |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without prefix "A-" and suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

Round flanged units pressed steel housing  
Eccentric locking collar type



AELPF201~AELPF207

AELPF208

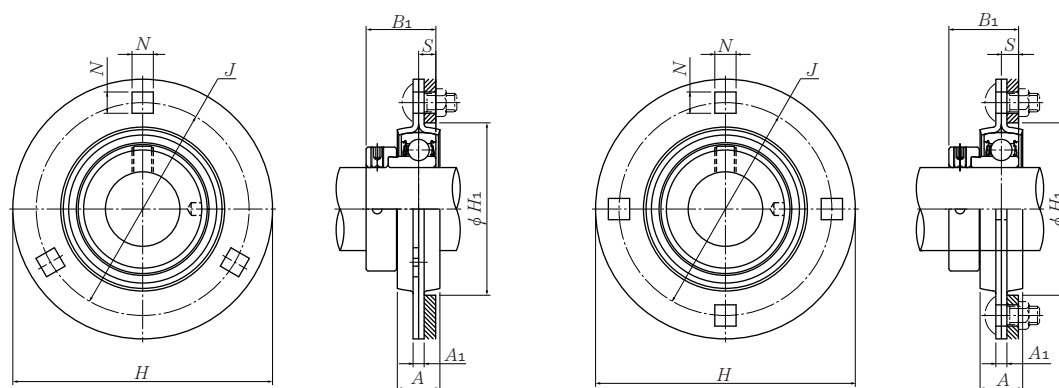
| Shaft<br>dia.              | Unit number                                                                        | Nominal dimensions |            |                       |                        |          |                       |              |                               | Bolt<br>size | Max. load<br>recommended |              | Bearing number                                                           |
|----------------------------|------------------------------------------------------------------------------------|--------------------|------------|-----------------------|------------------------|----------|-----------------------|--------------|-------------------------------|--------------|--------------------------|--------------|--------------------------------------------------------------------------|
|                            |                                                                                    | mm                 |            |                       |                        | inch     |                       |              |                               |              | mm<br>inch               | N<br>radial  |                                                                          |
| mm<br>inch                 |                                                                                    | <i>H</i>           | <i>J</i>   | <i>A</i> <sub>1</sub> | <i>N</i> <sup>1)</sup> | <i>A</i> | <i>B</i> <sub>1</sub> | <i>S</i>     | <i>H</i> <sub>1</sub><br>min. |              |                          |              |                                                                          |
| 12<br>½                    | AELPF201W3<br>AELPF201-008W3                                                       | 81<br>3⅜           | 63.5<br>2½ | 4<br>0.157            | 7.1<br>⅞               | 14<br>⅞  | 28.6<br>1.126         | 6.5<br>0.256 | 49<br>1⅝                      | M6<br>¼      | 2 700<br>600             | 1 350<br>300 | AEL201W3<br>AEL201-008W3                                                 |
| 15<br>⅞<br>⅝               | AELPF202W3<br>AELPF202-009W3<br>AELPF202-010W3                                     | 81<br>3⅜           | 63.5<br>2½ | 4<br>0.157            | 7.1<br>⅞               | 14<br>⅞  | 28.6<br>1.126         | 6.5<br>0.256 | 49<br>1⅝                      | M6<br>¼      | 2 700<br>600             | 1 350<br>300 | AEL202W3<br>AEL202-009W3<br>AEL202-010W3                                 |
| 17<br>1⅞                   | AELPF203W3<br>AELPF203-011W3                                                       | 81<br>3⅜           | 63.5<br>2½ | 4<br>0.157            | 7.1<br>⅞               | 14<br>⅞  | 28.6<br>1.126         | 6.5<br>0.256 | 49<br>1⅝                      | M6<br>¼      | 2 700<br>600             | 1 350<br>300 | AEL203W3<br>AEL203-011W3                                                 |
| 20<br>¾                    | AELPF204W3<br>AELPF204-012W3                                                       | 90<br>3⅞           | 71.5<br>2⅜ | 4<br>0.157            | 9<br>⅞                 | 16<br>⅝  | 31<br>1.220           | 7.5<br>0.295 | 56<br>2⅜                      | M8<br>⅝      | 3 000<br>660             | 1 500<br>330 | AEL204W3<br>AEL204-012W3                                                 |
| 25<br>1⅜<br>⅞<br>1⅝<br>1   | AELPF205W3<br>AELPF205-013W3<br>AELPF205-014W3<br>AELPF205-015W3<br>AELPF205-100W3 | 95<br>3¾           | 76<br>2⅝   | 4<br>0.157            | 9<br>⅞                 | 18<br>⅞  | 31<br>1.220           | 7.5<br>0.295 | 60<br>2⅜                      | M8<br>⅝      | 4 000<br>880             | 2 000<br>440 | AEL205W3<br>AEL205-013W3<br>AEL205-014W3<br>AEL205-015W3<br>AEL205-100W3 |
| 30<br>1⅞<br>1⅝<br>1⅜<br>1¼ | AELPF206W3<br>AELPF206-101W3<br>AELPF206-102W3<br>AELPF206-103W3<br>AELPF206-104W3 | 113<br>4⅞          | 90.5<br>3⅞ | 5.2<br>0.205          | 11<br>⅞                | 18<br>⅞  | 35.7<br>1.406         | 9<br>0.354   | 71<br>2⅝                      | M10<br>⅜     | 5 000<br>1 100           | 2 500<br>550 | AEL206W3<br>AEL206-101W3<br>AEL206-102W3<br>AEL206-103W3<br>AEL206-104W3 |
| 35<br>1¼<br>1⅝<br>1⅜<br>1⅞ | AELPF207W3<br>AELPF207-104W3<br>AELPF207-105W3<br>AELPF207-106W3<br>AELPF207-107W3 | 122<br>4⅞          | 100<br>3⅝  | 5.2<br>0.205          | 11<br>⅞                | 20<br>⅞  | 38.9<br>1.531         | 9.5<br>0.374 | 81<br>3⅜                      | M10<br>⅜     | 6 000<br>1 300           | 3 000<br>650 | AEL207W3<br>AEL207-104W3<br>AEL207-105W3<br>AEL207-106W3<br>AEL207-107W3 |
| 40<br>1½<br>1⅞             | AELPF208W3<br>AELPF208-108W3<br>AELPF208-109W3                                     | 148<br>5⅜          | 119<br>4⅞  | 6.8<br>0.268          | 13.5<br>⅞              | 21<br>⅞  | 43.7<br>1.720         | 11<br>0.433  | 91<br>3⅞                      | M12<br>½     | 7 000<br>1 500           | 3 500<br>750 | AEL208W3<br>AEL208-108W3<br>AEL208-109W3                                 |

Remarks: 1) AELPF208 has four bolt holes.

2) The permissible load only applies in applications where the load is stable and the speed is 2400 min<sup>-1</sup> or less.

| Housing<br>number | Mass<br>(approx.) |
|-------------------|-------------------|
|                   | kg lb             |
| PF203             | 0.3               |
| PF203             | 0.7               |
| PF203             | 0.3               |
| PF203             | 0.7               |
| PF203             | 0.7               |
| PF203             | 0.3               |
| PF203             | 0.7               |
| PF204             | 0.3               |
| PF204             | 0.7               |
| PF205             | 0.4               |
| PF205             |                   |
| PF205             | 0.9               |
| PF205             |                   |
| PF205             |                   |
| PF206             | 0.6               |
| PF206             |                   |
| PF206             | 1.3               |
| PF206             |                   |
| PF206             |                   |
| PF207             | 0.8               |
| PF207             |                   |
| PF207             | 1.8               |
| PF207             |                   |
| PF207             |                   |
| PF208             | 1.4               |
| PF208             | 3.1               |
| PF208             |                   |

# Round flanged units pressed steel housing Eccentric locking collar type



JELPF201~JELPF207

JELPF208

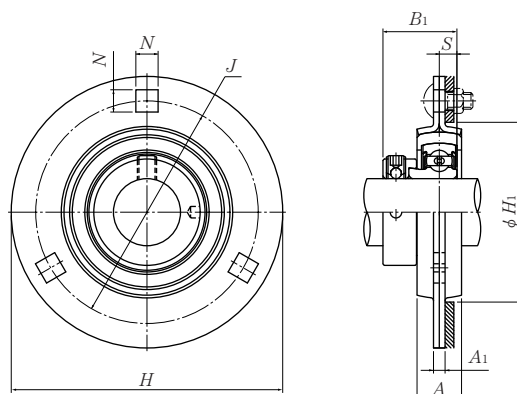
| Shaft<br>dia.              | Unit number                                                                        | Nominal dimensions |            |                       |                        |          |                       |              |                               | Bolt<br>size | Max. load<br>recommended |              | Bearing number                                                           |              |
|----------------------------|------------------------------------------------------------------------------------|--------------------|------------|-----------------------|------------------------|----------|-----------------------|--------------|-------------------------------|--------------|--------------------------|--------------|--------------------------------------------------------------------------|--------------|
|                            |                                                                                    | mm                 |            |                       |                        | inch     |                       |              |                               |              | mm<br>inch               | N<br>radial  |                                                                          | lbf<br>axial |
|                            |                                                                                    | <i>H</i>           | <i>J</i>   | <i>A</i> <sub>1</sub> | <i>N</i> <sup>1)</sup> | <i>A</i> | <i>B</i> <sub>1</sub> | <i>S</i>     | <i>H</i> <sub>1</sub><br>min. |              |                          |              |                                                                          |              |
| mm<br>inch                 |                                                                                    |                    |            |                       |                        |          |                       |              |                               |              |                          |              |                                                                          |              |
| 12<br>½                    | JELPF201W3<br>JELPF201-008W3                                                       | 81<br>3⅜           | 63.5<br>2½ | 4<br>0.157            | 7.1<br>⅜               | 14<br>⅞  | 28.6<br>1.126         | 6.5<br>0.256 | 49<br>1⅝                      | M6<br>¼      | 2 700<br>600             | 1 350<br>300 | JEL201W3<br>JEL201-008W3                                                 |              |
| 15<br>⅞<br>⅝               | JELPF202W3<br>JELPF202-009W3<br>JELPF202-010W3                                     | 81<br>3⅜           | 63.5<br>2½ | 4<br>0.157            | 7.1<br>⅜               | 14<br>⅞  | 28.6<br>1.126         | 6.5<br>0.256 | 49<br>1⅝                      | M6<br>¼      | 2 700<br>600             | 1 350<br>300 | JEL202W3<br>JEL202-009W3<br>JEL202-010W3                                 |              |
| 17<br>1⅞                   | JELPF203W3<br>JELPF203-011W3                                                       | 81<br>3⅜           | 63.5<br>2½ | 4<br>0.157            | 7.1<br>⅜               | 14<br>⅞  | 28.6<br>1.126         | 6.5<br>0.256 | 49<br>1⅝                      | M6<br>¼      | 2 700<br>600             | 1 350<br>300 | JEL203W3<br>JEL203-011W3                                                 |              |
| 20<br>¾                    | JELPF204W3<br>JELPF204-012W3                                                       | 90<br>3⅞           | 71.5<br>2⅞ | 4<br>0.157            | 9<br>⅞                 | 16<br>⅝  | 31<br>1.220           | 7.5<br>0.295 | 56<br>2⅞                      | M8<br>⅝      | 3 000<br>660             | 1 500<br>330 | JEL204W3<br>JEL204-012W3                                                 |              |
| 25<br>1⅜<br>⅞<br>1⅝<br>1   | JELPF205W3<br>JELPF205-013W3<br>JELPF205-014W3<br>JELPF205-015W3<br>JELPF205-100W3 | 95<br>3¾           | 76<br>2⅞   | 4<br>0.157            | 9<br>⅞                 | 18<br>⅞  | 31<br>1.220           | 7.5<br>0.295 | 60<br>2⅞                      | M8<br>⅝      | 4 000<br>800             | 2 000<br>440 | JEL205W3<br>JEL205-013W3<br>JEL205-014W3<br>JEL205-015W3<br>JEL205-100W3 |              |
| 30<br>1⅞<br>1⅞<br>1⅜<br>1¼ | JELPF206W3<br>JELPF206-101W3<br>JELPF206-102W3<br>JELPF206-103W3<br>JELPF206-104W3 | 113<br>4⅞          | 90.5<br>3⅞ | 5.2<br>0.205          | 11<br>⅞                | 18<br>⅞  | 35.7<br>1.406         | 9<br>0.354   | 71<br>2⅝                      | M10<br>⅜     | 5 000<br>1 100           | 2 500<br>550 | JEL206W3<br>JEL206-101W3<br>JEL206-102W3<br>JEL206-103W3<br>JEL206-104W3 |              |
| 35<br>1¼<br>1⅝<br>1⅜<br>1⅞ | JELPF207W3<br>JELPF207-104W3<br>JELPF207-105W3<br>JELPF207-106W3<br>JELPF207-107W3 | 122<br>4⅞          | 100<br>3⅝  | 5.2<br>0.205          | 11<br>⅞                | 20<br>⅞  | 38.9<br>1.531         | 9.5<br>0.374 | 81<br>3⅞                      | M10<br>⅜     | 6 000<br>1 300           | 3 000<br>650 | JEL207W3<br>JEL207-104W3<br>JEL207-105W3<br>JEL207-106W3<br>JEL207-107W3 |              |
| 40<br>1½<br>1⅞             | JELPF208W3<br>JELPF208-108W3<br>JELPF208-109W3                                     | 148<br>5⅜          | 119<br>4⅞  | 6.8<br>0.268          | 13.5<br>⅞              | 21<br>⅞  | 43.7<br>1.720         | 11<br>0.433  | 91<br>3⅞                      | M12<br>½     | 7 000<br>1 500           | 3 500<br>750 | JEL208W3<br>JEL208-108W3<br>JEL208-109W3                                 |              |

Remarks: 1) JELPF208 has four bolt holes.

2) The permissible load only applies in applications where the load is stable and the speed is 2400 min<sup>-1</sup> or less.

| Housing<br>number | Mass<br>(approx.) |
|-------------------|-------------------|
|                   | kg lb             |
| PF203             | 0.3               |
| PF203             | 0.7               |
| PF203             | 0.2               |
| PF203             | 0.4               |
| PF203             |                   |
| PF203             | 0.2               |
| PF203             | 0.4               |
| PF204             | 0.3               |
| PF204             | 0.7               |
| PF205             | 0.4               |
| PF205             |                   |
| PF205             | 0.9               |
| PF205             |                   |
| PF205             |                   |
| PF206             | 0.6               |
| PF206             |                   |
| PF206             | 1.3               |
| PF206             |                   |
| PF206             |                   |
| PF207             | 0.8               |
| PF207             |                   |
| PF207             | 1.8               |
| PF207             |                   |
| PF207             |                   |
| PF208             | 1.4               |
| PF208             | 3.1               |
| PF208             |                   |

Round flanged units pressed steel housing with rubber ring  
Eccentric locking collar type

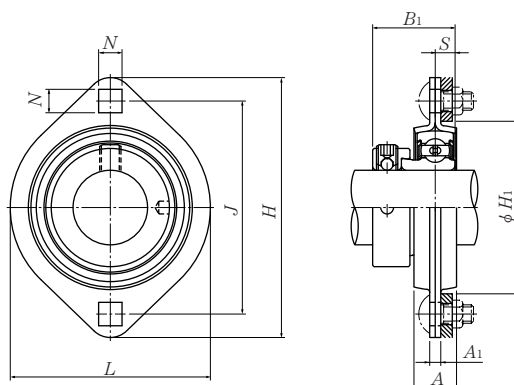


| Shaft<br>dia.                                                                                                                            | Unit number                                                                             | Nominal dimensions                     |                                         |                |                                       |                                        |                |              |                                       |                                       | Bolt<br>size | Max. load<br>recommended |                                                                          | Bearing number |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------|-----------------------------------------|----------------|---------------------------------------|----------------------------------------|----------------|--------------|---------------------------------------|---------------------------------------|--------------|--------------------------|--------------------------------------------------------------------------|----------------|
|                                                                                                                                          |                                                                                         | mm                                     |                                         |                |                                       | inch                                   |                |              |                                       |                                       |              | N<br>radial              | lbf<br>axial                                                             |                |
|                                                                                                                                          |                                                                                         | H                                      | J                                       | A <sub>1</sub> | N                                     | A                                      | B <sub>1</sub> | S            | H <sub>1</sub><br>min.                |                                       |              |                          |                                                                          |                |
| mm<br>inch                                                                                                                               |                                                                                         |                                        |                                         |                |                                       |                                        |                |              |                                       | mm<br>inch                            |              |                          |                                                                          |                |
| 12<br>½                                                                                                                                  | AELRPF201W3<br>AELRPF201-008W3                                                          | 90<br>3 <sup>17</sup> / <sub>32</sub>  | 71.5<br>2 <sup>13</sup> / <sub>16</sub> | 4<br>0.157     | 9<br>23 <sup>64</sup> / <sub>64</sub> | 16<br>5 <sup>8</sup> / <sub>8</sub>    | 28.6<br>1.126  | 6.5<br>0.256 | 56<br>2 <sup>13</sup> / <sub>64</sub> | M8<br>5 <sup>16</sup> / <sub>16</sub> | 1 000<br>220 | 200<br>40                | AEL201W3<br>AEL201-008W3                                                 |                |
| 15<br>9 <sup>16</sup> / <sub>16</sub><br>5 <sup>8</sup> / <sub>8</sub>                                                                   | AELRPF202W3<br>AELRPF202-009W3<br>AELRPF202-010W3                                       | 90<br>3 <sup>17</sup> / <sub>32</sub>  | 71.5<br>2 <sup>13</sup> / <sub>16</sub> | 4<br>0.157     | 9<br>23 <sup>64</sup> / <sub>64</sub> | 16<br>5 <sup>8</sup> / <sub>8</sub>    | 28.6<br>1.126  | 6.5<br>0.256 | 56<br>2 <sup>13</sup> / <sub>64</sub> | M8<br>5 <sup>16</sup> / <sub>16</sub> | 1 000<br>220 | 200<br>40                | AEL202W3<br>AEL202-009W3<br>AEL202-010W3                                 |                |
| 17<br>1 <sup>11</sup> / <sub>16</sub>                                                                                                    | AELRPF203W3<br>AELRPF203-011W3                                                          | 90<br>3 <sup>17</sup> / <sub>32</sub>  | 71.5<br>2 <sup>13</sup> / <sub>16</sub> | 4<br>0.157     | 9<br>23 <sup>64</sup> / <sub>64</sub> | 16<br>5 <sup>8</sup> / <sub>8</sub>    | 28.6<br>1.126  | 6.5<br>0.256 | 56<br>2 <sup>13</sup> / <sub>64</sub> | M8<br>5 <sup>16</sup> / <sub>16</sub> | 1 000<br>220 | 200<br>40                | AEL203W3<br>AEL203-011W3                                                 |                |
| 20<br>¾                                                                                                                                  | AELRPF204W3<br>AELRPF204-012W3                                                          | 95<br>3 <sup>¾</sup>                   | 76<br>2 <sup>63</sup> / <sub>64</sub>   | 4<br>0.157     | 9<br>23 <sup>64</sup> / <sub>64</sub> | 18<br>23 <sup>32</sup> / <sub>32</sub> | 31<br>1.220    | 7.5<br>0.295 | 60<br>2 <sup>23</sup> / <sub>64</sub> | M8<br>5 <sup>16</sup> / <sub>16</sub> | 1 150<br>250 | 200<br>40                | AEL204W3<br>AEL204-012W3                                                 |                |
| 25<br>1 <sup>13</sup> / <sub>16</sub><br>7 <sup>8</sup> / <sub>8</sub><br>1 <sup>15</sup> / <sub>16</sub><br>1                           | AELRPF205W3<br>AELRPF205-013W3<br>AELRPF205-014W3<br>AELRPF205-015W3<br>AELRPF205-100W3 | 113<br>4 <sup>7</sup> / <sub>16</sub>  | 90.5<br>3 <sup>9</sup> / <sub>16</sub>  | 5.2<br>0.205   | 11<br>7 <sup>16</sup> / <sub>16</sub> | 18<br>23 <sup>32</sup> / <sub>32</sub> | 31<br>1.220    | 7.5<br>0.295 | 71<br>2 <sup>51</sup> / <sub>64</sub> | M10<br>¾                              | 1 300<br>280 | 200<br>40                | AEL205W3<br>AEL205-013W3<br>AEL205-014W3<br>AEL205-015W3<br>AEL205-100W3 |                |
| 30<br>1 <sup>1</sup> / <sub>16</sub><br>1 <sup>1</sup> / <sub>8</sub><br>1 <sup>3</sup> / <sub>16</sub><br>1 <sup>1</sup> / <sub>4</sub> | AELRPF206W3<br>AELRPF206-101W3<br>AELRPF206-102W3<br>AELRPF206-103W3<br>AELRPF206-104W3 | 122<br>4 <sup>13</sup> / <sub>16</sub> | 100<br>3 <sup>15</sup> / <sub>16</sub>  | 5.2<br>0.205   | 11<br>7 <sup>16</sup> / <sub>16</sub> | 20<br>25 <sup>32</sup> / <sub>32</sub> | 35.7<br>1.406  | 9<br>0.354   | 81<br>3 <sup>3</sup> / <sub>16</sub>  | M10<br>¾                              | 1 500<br>330 | 200<br>40                | AEL206W3<br>AEL206-101W3<br>AEL206-102W3<br>AEL206-103W3<br>AEL206-104W3 |                |

| Housing number |       | Mass<br>(approx.) |
|----------------|-------|-------------------|
| Rubber         | Steel |                   |
| R201           | PF204 | 0.3               |
| R201           | PF204 | 0.7               |
| R201           | PF204 | 0.3               |
| R201           | PF204 | 0.7               |
| R201           | PF204 | 0.3               |
| R201           | PF204 | 0.7               |
| R204           | PF205 | 0.4               |
| R204           | PF205 | 0.9               |
| R205           | PF206 | 0.5               |
| R205           | PF206 |                   |
| R205           | PF206 | 1.1               |
| R205           | PF206 |                   |
| R205           | PF206 |                   |
| R206           | PF207 | 0.7               |
| R206           | PF207 |                   |
| R206           | PF207 | 1.5               |
| R206           | PF207 |                   |
| R206           | PF207 |                   |



# Rhombus flanged units pressed steel housing Eccentric locking collar type

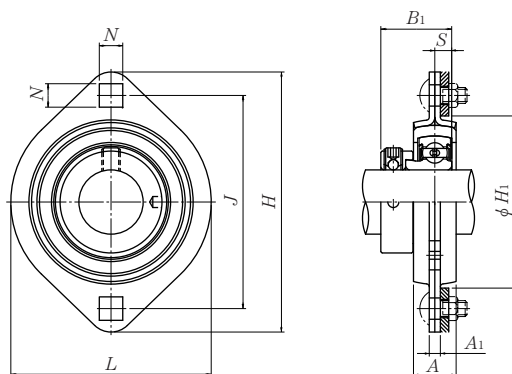


| Shaft<br>dia.                    | Unit number                                                                             | Nominal dimensions |                |                       |               |             |               |                       |              |                       | Bolt<br>size | Max. load<br>recommended |              |              |
|----------------------------------|-----------------------------------------------------------------------------------------|--------------------|----------------|-----------------------|---------------|-------------|---------------|-----------------------|--------------|-----------------------|--------------|--------------------------|--------------|--------------|
|                                  |                                                                                         |                    |                |                       |               |             |               |                       |              |                       |              | mm<br>inch               | N<br>radial  | lbf<br>axial |
|                                  |                                                                                         | <i>H</i>           | <i>J</i>       | <i>A</i> <sub>1</sub> | <i>N</i>      | <i>A</i>    | <i>L</i>      | <i>B</i> <sub>1</sub> | <i>S</i>     | <i>H</i> <sub>1</sub> |              |                          |              |              |
| 12<br>1½                         | AELPFL201W3<br>AELPFL201-008W3                                                          | 81<br>3⅜           | 63.5<br>2½     | 4<br>0.157            | 7.1<br>9⁄32   | 14<br>9⁄16  | 59<br>2⁵⁄16   | 28.6<br>1.126         | 6.5<br>0.256 | 49<br>1⁵⁹⁄64          | M 6<br>¼     | 2 700<br>600             | 1 350<br>300 |              |
| 15<br>9⁄16<br>5⁄8                | AELPFL202W3<br>AELPFL202-009W3<br>AELPFL202-010W3                                       | 81<br>3⅜           | 63.5<br>2½     | 4<br>0.157            | 7.1<br>9⁄32   | 14<br>9⁄16  | 59<br>2⁵⁄16   | 28.6<br>1.126         | 6.5<br>0.256 | 49<br>1⁵⁹⁄64          | M 6<br>¼     | 2 700<br>600             | 1 350<br>300 |              |
| 17<br>1¹⁄₁₆                      | AELPFL203W3<br>AELPFL203-011W3                                                          | 81<br>3⅜           | 63.5<br>2½     | 4<br>0.157            | 7.1<br>9⁄32   | 14<br>9⁄16  | 59<br>2⁵⁄16   | 28.6<br>1.126         | 6.5<br>0.256 | 49<br>1⁵⁹⁄64          | M 6<br>¼     | 2 700<br>600             | 1 350<br>300 |              |
| 20<br>¾                          | AELPFL204W3<br>AELPFL204-012W3                                                          | 90<br>3¹⁷⁄₃₂       | 71.5<br>2¹³⁄₁₆ | 4<br>0.157            | 9<br>2³⁄₆₄    | 16<br>⅝     | 67<br>2⁵⁄₈    | 31<br>1.220           | 7.5<br>0.295 | 56<br>2¹³⁄₆₄          | M 8<br>⅝₁₆   | 3 000<br>660             | 1 500<br>330 |              |
| 25<br>1³⁄₁₆<br>7⁄8<br>1⁵⁄₁₆<br>1 | AELPFL205W3<br>AELPFL205-013W3<br>AELPFL205-014W3<br>AELPFL205-015W3<br>AELPFL205-100W3 | 95<br>3¾           | 76<br>2⁶³⁄₆₄   | 4<br>0.157            | 9<br>2³⁄₆₄    | 18<br>2³⁄₃₂ | 71<br>2²⁵⁄₃₂  | 31<br>1.220           | 7.5<br>0.295 | 60<br>2²³⁄₆₄          | M 8<br>⅝₁₆   | 4 000<br>880             | 2 000<br>440 |              |
| 30<br>1¹⁄₁₆<br>1⅛<br>1³⁄₁₆<br>1¼ | AELPFL206W3<br>AELPFL206-101W3<br>AELPFL206-102W3<br>AELPFL206-103W3<br>AELPFL206-104W3 | 113<br>4⁷⁄₁₆       | 90.5<br>3⁹⁄₁₆  | 5.2<br>0.205          | 11<br>7⁄₁₆    | 18<br>2³⁄₃₂ | 84<br>3⁵⁄₁₆   | 35.7<br>1.406         | 9<br>0.354   | 71<br>2⁵¹⁄₆₄          | M10<br>⅜     | 5 000<br>1 100           | 2 500<br>550 |              |
| 35<br>1¼<br>1⁵⁄₁₆<br>1⅜<br>1⁷⁄₁₆ | AELPFL207W3<br>AELPFL207-104W3<br>AELPFL207-105W3<br>AELPFL207-106W3<br>AELPFL207-107W3 | 122<br>4¹³⁄₁₆      | 100<br>3¹⁵⁄₁₆  | 5.2<br>0.205          | 11<br>7⁄₁₆    | 20<br>2⁵⁄₃₂ | 94<br>3¹¹⁄₁₆  | 38.9<br>1.531         | 9.5<br>0.374 | 81<br>3³⁄₁₆           | M10<br>⅜     | 6 000<br>1 300           | 3 000<br>650 |              |
| 40<br>1½<br>1⁹⁄₁₆                | AELPFL208W3<br>AELPFL208-108W3<br>AELPFL208-109W3                                       | 148<br>5¹³⁄₁₆      | 119<br>4¹¹⁄₁₆  | 6.8<br>0.268          | 13.5<br>1⁷⁄₃₂ | 21<br>1³⁄₁₆ | 100<br>3¹⁵⁄₁₆ | 43.7<br>1.720         | 11<br>0.433  | 91<br>3³⁷⁄₆₄          | M12<br>½     | 6 000<br>1 300           | 3 000<br>650 |              |

Remarks: 1) The permissible load only applies in applications where the load is stable and the speed is 2400 min<sup>-1</sup> or less.

| Bearing number | Housing number | Mass (approx.) |    |
|----------------|----------------|----------------|----|
|                |                | kg             | lb |
| AEL201W3       | PFL203         | 0.3            |    |
| AEL201-008W3   | PFL203         | 0.7            |    |
| AEL202W3       | PFL203         | 0.3            |    |
| AEL202-009W3   | PFL203         | 0.7            |    |
| AEL202-010W3   | PFL203         |                |    |
| AEL203W3       | PFL203         | 0.3            |    |
| AEL203-011W3   | PFL203         | 0.7            |    |
| AEL204W3       | PFL204         | 0.3            |    |
| AEL204-012W3   | PFL204         | 0.7            |    |
| AEL205W3       | PFL205         | 0.4            |    |
| AEL205-013W3   | PFL205         |                |    |
| AEL205-014W3   | PFL205         | 0.9            |    |
| AEL205-015W3   | PFL205         |                |    |
| AEL205-100W3   | PFL205         |                |    |
| AEL206W3       | PFL206         | 0.6            |    |
| AEL206-101W3   | PFL206         |                |    |
| AEL206-102W3   | PFL206         | 1.3            |    |
| AEL206-103W3   | PFL206         |                |    |
| AEL206-104W3   | PFL206         |                |    |
| AEL207W3       | PFL207         | 0.9            |    |
| AEL207-104W3   | PFL207         |                |    |
| AEL207-105W3   | PFL207         | 2.0            |    |
| AEL207-106W3   | PFL207         |                |    |
| AEL207-107W3   | PFL207         |                |    |
| AEL208W3       | PFL208         | 1.3            |    |
| AEL208-108W3   | PFL208         | 2.9            |    |
| AEL208-109W3   | PFL208         |                |    |

# Rhombus flanged units pressed steel housing with rubber ring Eccentric locking collar type

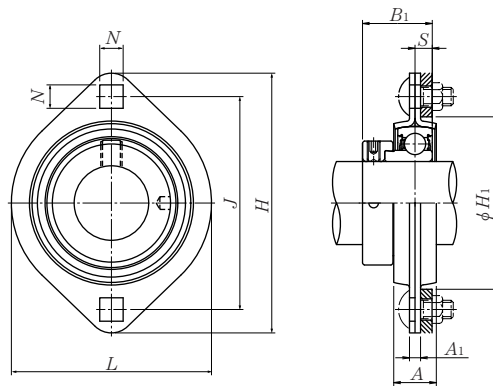


| Shaft<br>dia.                                                                                                                            | Unit number                                                                                  | Nominal dimensions                     |                                         |                       |                                         |                                       |                                        |                       |              |                                       | Bolt<br>size                          | Max. load<br>recommended |           |       |
|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------|-----------------------------------------|-----------------------|-----------------------------------------|---------------------------------------|----------------------------------------|-----------------------|--------------|---------------------------------------|---------------------------------------|--------------------------|-----------|-------|
|                                                                                                                                          |                                                                                              |                                        |                                         |                       |                                         |                                       |                                        |                       |              |                                       |                                       | mm<br>inch               | N         | lbf   |
|                                                                                                                                          |                                                                                              | <i>H</i>                               | <i>J</i>                                | <i>A</i> <sub>1</sub> | <i>N</i>                                | <i>A</i>                              | <i>L</i>                               | <i>B</i> <sub>1</sub> | <i>S</i>     | <i>H</i> <sub>1</sub>                 |                                       |                          | radial    | axial |
| 12<br>½                                                                                                                                  | AELRPFL201W3<br>AELRPFL201-008W3                                                             | 90<br>3 <sup>17</sup> / <sub>32</sub>  | 71.5<br>2 <sup>13</sup> / <sub>16</sub> | 4<br>0.157            | 9<br>23 <sup>3</sup> / <sub>64</sub>    | 16<br>5 <sup>5</sup> / <sub>8</sub>   | 67<br>2 <sup>5</sup> / <sub>8</sub>    | 31<br>1.220           | 7.5<br>0.295 | 56<br>2 <sup>13</sup> / <sub>64</sub> | M 8<br>5 <sup>5</sup> / <sub>16</sub> | 1 000<br>220             | 200<br>40 |       |
| 15<br>9 <sup>9</sup> / <sub>16</sub><br>5 <sup>5</sup> / <sub>8</sub>                                                                    | AELRPFL202W3<br>AELRPFL202-009W3<br>AELRPFL202-010W3                                         | 90<br>3 <sup>17</sup> / <sub>32</sub>  | 71.5<br>2 <sup>13</sup> / <sub>16</sub> | 4<br>0.157            | 9<br>23 <sup>3</sup> / <sub>64</sub>    | 16<br>5 <sup>5</sup> / <sub>8</sub>   | 67<br>2 <sup>5</sup> / <sub>8</sub>    | 31<br>1.220           | 7.5<br>0.295 | 56<br>2 <sup>13</sup> / <sub>64</sub> | M 8<br>5 <sup>5</sup> / <sub>16</sub> | 1 000<br>220             | 200<br>40 |       |
| 17<br>1 <sup>11</sup> / <sub>16</sub>                                                                                                    | AELRPFL203W3<br>AELRPFL203-011W3                                                             | 90<br>3 <sup>17</sup> / <sub>32</sub>  | 71.5<br>2 <sup>13</sup> / <sub>16</sub> | 4<br>0.157            | 9<br>23 <sup>3</sup> / <sub>64</sub>    | 16<br>5 <sup>5</sup> / <sub>8</sub>   | 67<br>2 <sup>5</sup> / <sub>8</sub>    | 31<br>1.220           | 7.5<br>0.295 | 56<br>2 <sup>13</sup> / <sub>64</sub> | M 8<br>5 <sup>5</sup> / <sub>16</sub> | 1 000<br>220             | 200<br>40 |       |
| 20<br>¾                                                                                                                                  | AELRPFL204W3<br>AELRPFL204-012W3                                                             | 95<br>3 <sup>3</sup> / <sub>4</sub>    | 76<br>2 <sup>63</sup> / <sub>64</sub>   | 4<br>0.157            | 9<br>23 <sup>3</sup> / <sub>64</sub>    | 18<br>23 <sup>3</sup> / <sub>32</sub> | 71<br>2 <sup>25</sup> / <sub>32</sub>  | 31<br>1.220           | 7.5<br>0.295 | 60<br>2 <sup>23</sup> / <sub>64</sub> | M 8<br>5 <sup>5</sup> / <sub>16</sub> | 1 150<br>350             | 200<br>40 |       |
| 25<br>1 <sup>13</sup> / <sub>16</sub><br>7 <sup>7</sup> / <sub>8</sub><br>1 <sup>15</sup> / <sub>16</sub><br>1                           | AELRPFL205W3<br>AELRPFL205-013W3<br>AELRPFL205-014W3<br>AELRPFL205-015W3<br>AELRPFL205-100W3 | 113<br>4 <sup>7</sup> / <sub>16</sub>  | 90.5<br>3 <sup>9</sup> / <sub>16</sub>  | 5.2<br>0.205          | 11<br>7 <sup>7</sup> / <sub>16</sub>    | 18<br>23 <sup>3</sup> / <sub>32</sub> | 84<br>3 <sup>5</sup> / <sub>16</sub>   | 35.7<br>1.406         | 9<br>0.354   | 71<br>2 <sup>51</sup> / <sub>64</sub> | M10<br>¾                              | 1 300<br>280             | 200<br>40 |       |
| 30<br>1 <sup>1</sup> / <sub>16</sub><br>1 <sup>1</sup> / <sub>8</sub><br>1 <sup>3</sup> / <sub>16</sub><br>1 <sup>1</sup> / <sub>4</sub> | AELRPFL206W3<br>AELRPFL206-101W3<br>AELRPFL206-102W3<br>AELRPFL206-103W3<br>AELRPFL206-104W3 | 122<br>4 <sup>13</sup> / <sub>16</sub> | 100<br>3 <sup>15</sup> / <sub>16</sub>  | 5.2<br>0.205          | 11<br>7 <sup>7</sup> / <sub>16</sub>    | 20<br>25 <sup>3</sup> / <sub>32</sub> | 94<br>3 <sup>11</sup> / <sub>16</sub>  | 38.9<br>1.531         | 9.5<br>0.374 | 81<br>3 <sup>3</sup> / <sub>16</sub>  | M10<br>¾                              | 1 500<br>330             | 200<br>40 |       |
| 35<br>1 <sup>1</sup> / <sub>4</sub><br>1 <sup>5</sup> / <sub>16</sub><br>1 <sup>3</sup> / <sub>8</sub><br>1 <sup>7</sup> / <sub>16</sub> | AELRPFL207W3<br>AELRPFL207-104W3<br>AELRPFL207-105W3<br>AELRPFL207-106W3<br>AELRPFL207-107W3 | 148<br>5 <sup>13</sup> / <sub>16</sub> | 119<br>4 <sup>11</sup> / <sub>16</sub>  | 6.8<br>0.268          | 13.5<br>17 <sup>1</sup> / <sub>32</sub> | 21<br>13 <sup>3</sup> / <sub>16</sub> | 100<br>3 <sup>15</sup> / <sub>16</sub> | 43.7<br>1.720         | 11<br>0.433  | 91<br>3 <sup>37</sup> / <sub>64</sub> | M12<br>½                              | 1 500<br>330             | 200<br>40 |       |

Remarks: 1) The permissible load only applies in applications where the load is stable and the speed is 2400 min<sup>-1</sup> or less.

| Bearing number | Housing number |        | Mass<br>(approx.)<br><br>kg lb |
|----------------|----------------|--------|--------------------------------|
|                | Rubber         | Steel  |                                |
| AEL201W3       | R201           | PFL204 | 0.3                            |
| AEL201-008W3   | R201           | PFL204 | 0.7                            |
| AEL202W3       | R201           | PFL204 | 0.3                            |
| AEL202-009W3   | R201           | PFL204 | 0.7                            |
| AEL202-010W3   | R201           | PFL204 |                                |
| AEL203W3       | R201           | PFL204 | 0.3                            |
| AEL203-011W3   | R201           | PFL204 | 0.7                            |
| AEL204W3       | R204           | PFL205 | 0.3                            |
| AEL204-012W3   | R204           | PFL205 | 0.7                            |
| AEL205W3       | R205           | PFL206 | 0.4                            |
| AEL205-013W3   | R205           | PFL206 |                                |
| AEL205-014W3   | R205           | PFL206 | 0.9                            |
| AEL205-015W3   | R205           | PFL206 |                                |
| AEL205-100W3   | R205           | PFL206 |                                |
| AEL206W3       | R206           | PFL207 | 0.6                            |
| AEL206-101W3   | R206           | PFL207 |                                |
| AEL206-102W3   | R206           | PFL207 | 1.3                            |
| AEL206-103W3   | R206           | PFL207 |                                |
| AEL206-104W3   | R206           | PFL207 |                                |
| AEL207W3       | R207           | PFL208 | 0.9                            |
| AEL207-104W3   | R207           | PFL208 |                                |
| AEL207-105W3   | R207           | PFL208 | 2.0                            |
| AEL207-106W3   | R207           | PFL208 |                                |
| AEL207-107W3   | R207           | PFL208 |                                |

# Rhombus flanged units pressed steel housing Eccentric locking collar type

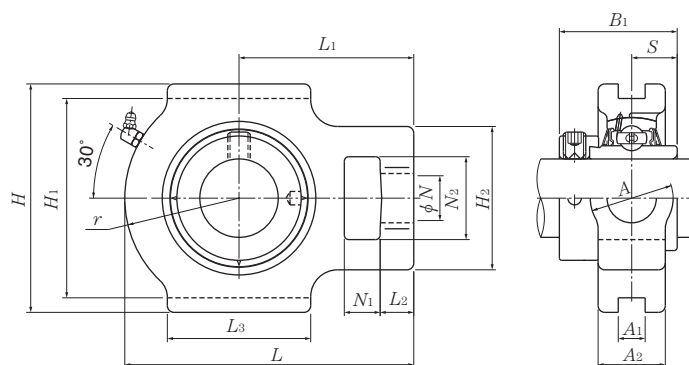


| Shaft<br>dia.              | Unit number                                                                             | Nominal dimensions |           |                |               |             |           |                |              |                | Bolt<br>size | Max. load<br>recommended |              |
|----------------------------|-----------------------------------------------------------------------------------------|--------------------|-----------|----------------|---------------|-------------|-----------|----------------|--------------|----------------|--------------|--------------------------|--------------|
|                            |                                                                                         |                    |           |                |               |             |           |                |              |                |              | N                        | lbf          |
|                            |                                                                                         | mm                 |           |                |               |             | inch      |                |              |                |              |                          |              |
| mm<br>inch                 |                                                                                         | H                  | J         | A <sub>1</sub> | N             | A           | L         | B <sub>1</sub> | S            | H <sub>1</sub> | mm<br>inch   | radial                   | axial        |
| 12<br>1½                   | JELPFL201W3<br>JELPFL201-008W3                                                          | 81<br>3⅜           | 63<br>2⅜  | 4<br>0.157     | 7.1<br>9/32   | 14<br>9/16  | 59<br>2⅝  | 28.6<br>1.126  | 6.5<br>0.256 | 49<br>1⅝       | M 6<br>¼     | 2 700<br>600             | 1 350<br>300 |
| 15<br>9/16<br>5/8          | JELPFL202W3<br>JELPFL202-009W3<br>JELPFL202-010W3                                       | 81<br>3⅜           | 63<br>2⅜  | 4<br>0.157     | 7.1<br>9/32   | 14<br>9/16  | 59<br>2⅝  | 28.6<br>1.126  | 6.5<br>0.256 | 49<br>1⅝       | M 6<br>¼     | 2 700<br>600             | 1 350<br>300 |
| 17<br>1⅞                   | JELPFL203W3<br>JELPFL203-011W3                                                          | 81<br>3⅜           | 63<br>2⅜  | 4<br>0.157     | 7.1<br>9/32   | 14<br>9/16  | 59<br>2⅝  | 28.6<br>1.126  | 6.5<br>0.256 | 49<br>1⅝       | M 6<br>¼     | 2 700<br>600             | 1 350<br>300 |
| 20<br>¾                    | JELPFL204W3<br>JELPFL204-012W3                                                          | 90<br>3⅞           | 71<br>2⅝  | 4<br>0.157     | 9<br>23/64    | 16<br>5/8   | 67<br>2⅝  | 31<br>1.220    | 7.5<br>0.295 | 56<br>2⅜       | M 8<br>5/16  | 3 000<br>660             | 1 500<br>330 |
| 25<br>1⅜<br>7/8<br>1⅝<br>1 | JELPFL205W3<br>JELPFL205-013W3<br>JELPFL205-014W3<br>JELPFL205-015W3<br>JELPFL205-100W3 | 95<br>3¾           | 76<br>2⅞  | 4<br>0.157     | 9<br>23/64    | 18<br>23/32 | 71<br>2⅝  | 31<br>1.220    | 7.5<br>0.295 | 60<br>2⅜       | M 8<br>5/16  | 4 000<br>880             | 2 000<br>440 |
| 30<br>1⅞<br>1⅝<br>1⅜<br>1¼ | JELPFL206W3<br>JELPFL206-101W3<br>JELPFL206-102W3<br>JELPFL206-103W3<br>JELPFL206-104W3 | 113<br>4⅞          | 90<br>3⅝  | 5.2<br>0.205   | 11<br>7/16    | 18<br>23/32 | 84<br>3⅝  | 35.7<br>1.406  | 9<br>0.354   | 71<br>2⅝       | M10<br>¾     | 5 000<br>1 100           | 2 500<br>550 |
| 35<br>1¼<br>1⅝<br>1⅜<br>1⅞ | JELPFL207W3<br>JELPFL207-104W3<br>JELPFL207-105W3<br>JELPFL207-106W3<br>JELPFL207-107W3 | 122<br>4⅞          | 100<br>3⅝ | 5.2<br>0.205   | 11<br>7/16    | 20<br>25/32 | 94<br>3⅞  | 38.9<br>1.531  | 9.5<br>0.374 | 81<br>3⅝       | M10<br>¾     | 6 000<br>1 300           | 3 000<br>650 |
| 40<br>1½<br>1⅞             | JELPFL208W3<br>JELPFL208-108W3<br>JELPFL208-109W3                                       | 148<br>5⅞          | 119<br>4⅞ | 6.8<br>0.268   | 13.5<br>17/32 | 21<br>13/16 | 100<br>3⅝ | 43.7<br>1.720  | 11<br>0.433  | 91<br>3⅞       | M12<br>½     | 6 000<br>1 300           | 3 000<br>650 |

Remarks: 1) The permissible load only applies in applications where the load is stable and the speed is 2400 min<sup>-1</sup> or less.

| Bearing number | Housing number | Mass (approx.) |    |
|----------------|----------------|----------------|----|
|                |                | kg             | lb |
| JEL201W3       | PFL203         | 0.3            |    |
| JEL201-008W3   | PFL203         | 0.7            |    |
| JEL202W3       | PFL203         | 0.3            |    |
| JEL202-009W3   | PFL203         | 0.7            |    |
| JEL202-010W3   | PFL203         |                |    |
| JEL203W3       | PFL203         | 0.3            |    |
| JEL203-011W3   | PFL203         | 0.7            |    |
| JEL204W3       | PFL204         | 0.3            |    |
| JEL204-012W3   | PFL204         | 0.7            |    |
| JEL205W3       | PFL205         | 0.4            |    |
| JEL205-013W3   | PFL205         |                |    |
| JEL205-014W3   | PFL205         | 0.9            |    |
| JEL205-015W3   | PFL205         |                |    |
| JEL205-100W3   | PFL205         |                |    |
| JEL206W3       | PFL206         | 0.7            |    |
| JEL206-101W3   | PFL206         |                |    |
| JEL206-102W3   | PFL206         | 1.5            |    |
| JEL206-103W3   | PFL206         |                |    |
| JEL206-104W3   | PFL206         |                |    |
| JEL207W3       | PFL207         | 0.9            |    |
| JEL207-104W3   | PFL207         |                |    |
| JEL207-105W3   | PFL207         | 2.0            |    |
| JEL207-106W3   | PFL207         |                |    |
| JEL207-107W3   | PFL207         |                |    |
| JEL208W3       | PFL208         | 1.3            |    |
| JEL208-108W3   | PFL208         | 2.9            |    |
| JEL208-109W3   | PFL208         |                |    |

Take-up units cast housing  
Eccentric locking collar type



| Shaft<br>dia. | Unit number <sup>1)</sup> | Nominal dimensions |                |                |                |        |                |                |                |         |         |                |         |         |                |                |       |
|---------------|---------------------------|--------------------|----------------|----------------|----------------|--------|----------------|----------------|----------------|---------|---------|----------------|---------|---------|----------------|----------------|-------|
|               |                           | mm                 |                |                |                |        |                |                |                | inch    |         |                |         |         |                |                |       |
|               |                           | N <sub>1</sub>     | L <sub>2</sub> | H <sub>2</sub> | N <sub>2</sub> | N      | L <sub>3</sub> | A <sub>1</sub> | H <sub>1</sub> | H       | L       | A <sub>2</sub> | A       | r       | L <sub>1</sub> | B <sub>1</sub> | S     |
| 20            | UET204D1W3                | 16                 | 12             | 51             | 32             | 19     | 51             | 12             | 76             | 89      | 94      | 21             | 32      | 33      | 61             | 43.7           | 17.1  |
| 3/4           | UET204-012D1W3            | 5/8                | 15/32          | 2              | 1 1/4          | 3/4    | 2              | 0.472          | 2 63/64        | 3 1/2   | 3 11/16 | 1 3/16         | 1 1/4   | 1 5/16  | 2 13/32        | 1.720          | 0.673 |
| 25            | UET205D1W3                | 16                 | 12             | 51             | 32             | 19     | 51             | 12             | 76             | 89      | 97      | 24             | 32      | 35      | 62             | 44.4           | 17.45 |
| 13/16         | UET205-013D1W3            | 5/8                | 15/32          | 2              | 1 1/4          | 3/4    | 2              | 0.472          | 2 63/64        | 3 1/2   | 3 13/16 | 1 5/16         | 1 1/4   | 1 3/8   | 2 7/16         | 1.748          | 0.687 |
| 7/8           | UET205-014D1W3            | 5/8                | 15/32          | 2              | 1 1/4          | 3/4    | 2              | 0.472          | 2 63/64        | 3 1/2   | 3 13/16 | 1 5/16         | 1 1/4   | 1 3/8   | 2 7/16         | 1.748          | 0.687 |
| 15/16         | UET205-015D1W3            | 5/8                | 15/32          | 2              | 1 1/4          | 3/4    | 2              | 0.472          | 2 63/64        | 3 1/2   | 3 13/16 | 1 5/16         | 1 1/4   | 1 3/8   | 2 7/16         | 1.748          | 0.687 |
| 1             | UET205-100D1W3            | 5/8                | 15/32          | 2              | 1 1/4          | 3/4    | 2              | 0.472          | 2 63/64        | 3 1/2   | 3 13/16 | 1 5/16         | 1 1/4   | 1 3/8   | 2 7/16         | 1.748          | 0.687 |
| 30            | UET206D1W3                | 16                 | 12             | 56             | 37             | 22     | 57             | 12             | 89             | 102     | 113     | 28             | 37      | 43      | 70             | 48.4           | 18.25 |
| 1 1/16        | UET206-101D1W3            | 5/8                | 15/32          | 2 7/32         | 1 15/32        | 7/8    | 2 1/4          | 0.472          | 3 1/2          | 4 1/32  | 4 7/16  | 1 3/32         | 1 15/32 | 1 11/16 | 2 3/4          | 1.906          | 0.719 |
| 1 1/8         | UET206-102D1W3            | 5/8                | 15/32          | 2 7/32         | 1 15/32        | 7/8    | 2 1/4          | 0.472          | 3 1/2          | 4 1/32  | 4 7/16  | 1 3/32         | 1 15/32 | 1 11/16 | 2 3/4          | 1.906          | 0.719 |
| 1 3/16        | UET206-103D1W3            | 5/8                | 15/32          | 2 7/32         | 1 15/32        | 7/8    | 2 1/4          | 0.472          | 3 1/2          | 4 1/32  | 4 7/16  | 1 3/32         | 1 15/32 | 1 11/16 | 2 3/4          | 1.906          | 0.719 |
| 1 1/4         | UET206-104D1W3            | 5/8                | 15/32          | 2 7/32         | 1 15/32        | 7/8    | 2 1/4          | 0.472          | 3 1/2          | 4 1/32  | 4 7/16  | 1 3/32         | 1 15/32 | 1 11/16 | 2 3/4          | 1.906          | 0.719 |
| 35            | UET207D1W3                | 16                 | 15             | 64             | 37             | 22     | 64             | 12             | 89             | 102     | 129     | 30             | 37      | 51      | 78             | 51.1           | 18.8  |
| 1 1/4         | UET207-104D1W3            | 5/8                | 19/32          | 2 17/32        | 1 15/32        | 7/8    | 2 17/32        | 0.472          | 3 1/2          | 4 1/32  | 5 3/32  | 1 3/16         | 1 15/32 | 2       | 3 1/16         | 2.012          | 0.740 |
| 1 5/16        | UET207-105D1W3            | 5/8                | 19/32          | 2 17/32        | 1 15/32        | 7/8    | 2 17/32        | 0.472          | 3 1/2          | 4 1/32  | 5 3/32  | 1 3/16         | 1 15/32 | 2       | 3 1/16         | 2.012          | 0.740 |
| 1 3/8         | UET207-106D1W3            | 5/8                | 19/32          | 2 17/32        | 1 15/32        | 7/8    | 2 17/32        | 0.472          | 3 1/2          | 4 1/32  | 5 3/32  | 1 3/16         | 1 15/32 | 2       | 3 1/16         | 2.012          | 0.740 |
| 1 7/16        | UET207-107D1W3            | 5/8                | 19/32          | 2 17/32        | 1 15/32        | 7/8    | 2 17/32        | 0.472          | 3 1/2          | 4 1/32  | 5 3/32  | 1 3/16         | 1 15/32 | 2       | 3 1/16         | 2.012          | 0.740 |
| 40            | UET208D1W3                | 19                 | 18             | 83             | 49             | 29     | 83             | 16             | 102            | 114     | 144     | 33             | 49      | 56      | 88             | 56.3           | 21.4  |
| 1 1/2         | UET208-108D1W3            | 3/4                | 23/32          | 3 9/32         | 1 15/16        | 1 5/32 | 3 9/32         | 0.630          | 4 1/64         | 4 1/2   | 5 21/32 | 1 5/16         | 1 15/16 | 2 7/32  | 3 15/32        | 2.217          | 0.843 |
| 1 9/16        | UET208-109D1W3            | 3/4                | 23/32          | 3 9/32         | 1 15/16        | 1 5/32 | 3 9/32         | 0.630          | 4 1/64         | 4 1/2   | 5 21/32 | 1 5/16         | 1 15/16 | 2 7/32  | 3 15/32        | 2.217          | 0.843 |
| 45            | UET209D1W3                | 19                 | 18             | 83             | 49             | 29     | 83             | 16             | 102            | 117     | 145     | 35             | 49      | 57      | 88             | 56.3           | 21.4  |
| 1 5/8         | UET209-110D1W3            | 3/4                | 23/32          | 3 9/32         | 1 15/16        | 1 5/32 | 3 9/32         | 0.630          | 4 1/64         | 4 19/32 | 5 23/32 | 1 3/8          | 1 15/16 | 2 1/4   | 3 15/32        | 2.217          | 0.843 |
| 1 11/16       | UET209-111D1W3            | 3/4                | 23/32          | 3 9/32         | 1 15/16        | 1 5/32 | 3 9/32         | 0.630          | 4 1/64         | 4 19/32 | 5 23/32 | 1 3/8          | 1 15/16 | 2 1/4   | 3 15/32        | 2.217          | 0.843 |
| 1 3/4         | UET209-112D1W3            | 3/4                | 23/32          | 3 9/32         | 1 15/16        | 1 5/32 | 3 9/32         | 0.630          | 4 1/64         | 4 19/32 | 5 23/32 | 1 3/8          | 1 15/16 | 2 1/4   | 3 15/32        | 2.217          | 0.843 |
| 50            | UET210D1W3                | 19                 | 18             | 83             | 49             | 29     | 86             | 16             | 102            | 117     | 151     | 37             | 49      | 59      | 92             | 62.7           | 24.6  |
| 1 13/16       | UET210-113D1W3            | 3/4                | 23/32          | 3 9/32         | 1 15/16        | 1 5/32 | 3 3/8          | 0.630          | 4 1/64         | 4 19/32 | 5 15/16 | 1 15/32        | 1 15/16 | 2 5/16  | 3 5/8          | 2.469          | 0.969 |
| 1 7/8         | UET210-114D1W3            | 3/4                | 23/32          | 3 9/32         | 1 15/16        | 1 5/32 | 3 3/8          | 0.630          | 4 1/64         | 4 19/32 | 5 15/16 | 1 15/32        | 1 15/16 | 2 5/16  | 3 5/8          | 2.469          | 0.969 |
| 1 15/16       | UET210-115D1W3            | 3/4                | 23/32          | 3 9/32         | 1 15/16        | 1 5/32 | 3 3/8          | 0.630          | 4 1/64         | 4 19/32 | 5 15/16 | 1 15/32        | 1 15/16 | 2 5/16  | 3 5/8          | 2.469          | 0.969 |
| 2             | UET210-200D1W3            | 3/4                | 23/32          | 3 9/32         | 1 15/16        | 1 5/32 | 3 3/8          | 0.630          | 4 1/64         | 4 19/32 | 5 15/16 | 1 15/32        | 1 15/16 | 2 5/16  | 3 5/8          | 2.469          | 0.969 |

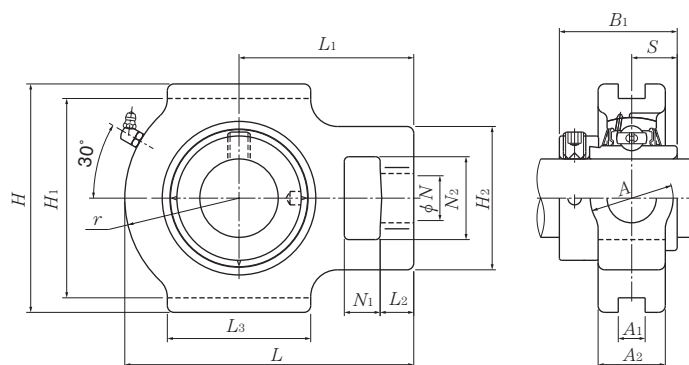
Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

| Bearing number | Housing number <sup>1)</sup> | Mass<br>(approx.) |
|----------------|------------------------------|-------------------|
|                |                              | kg lb             |
| UEL204D1W3     | T204D1                       | 0.6               |
| UEL204-012D1W3 | T204D1                       | 1.3               |
| UEL205D1W3     | T205D1                       | 0.9               |
| UEL205-013D1W3 | T205D1                       |                   |
| UEL205-014D1W3 | T205D1                       | 2.0               |
| UEL205-015D1W3 | T205D1                       |                   |
| UEL205-100D1W3 | T205D1                       |                   |
| UEL206D1W3     | T206D1                       | 1.4               |
| UEL206-101D1W3 | T206D1                       |                   |
| UEL206-102D1W3 | T206D1                       | 3.1               |
| UEL206-103D1W3 | T206D1                       |                   |
| UEL206-104D1W3 | T206D1                       |                   |
| UEL207D1W3     | T207D1                       | 1.7               |
| UEL207-104D1W3 | T207D1                       |                   |
| UEL207-105D1W3 | T207D1                       | 3.8               |
| UEL207-106D1W3 | T207D1                       |                   |
| UEL207-107D1W3 | T207D1                       |                   |
| UEL208D1W3     | T208D1                       | 2.5               |
| UEL208-108D1W3 | T208D1                       | 5.5               |
| UEL208-109D1W3 | T208D1                       |                   |
| UEL209D1W3     | T209D1                       | 2.5               |
| UEL209-110D1W3 | T209D1                       |                   |
| UEL209-111D1W3 | T209D1                       | 5.5               |
| UEL209-112D1W3 | T209D1                       |                   |
| UEL210D1W3     | T210D1                       | 2.7               |
| UEL210-113D1W3 | T210D1                       |                   |
| UEL210-114D1W3 | T210D1                       | 6.0               |
| UEL210-115D1W3 | T210D1                       |                   |
| UEL210-200D1W3 | T210D1                       |                   |



Take-up units cast housing  
Eccentric locking collar type

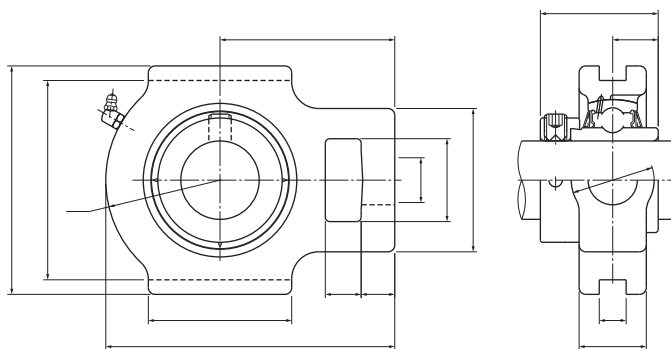


| Shaft<br>dia.                   | Unit number <sup>1)</sup> | Nominal dimensions              |                                  |                                 |                                  |                               |                                |                |                                 |                                |                                 |                                 |                                  |                                 |                                 |                |       |
|---------------------------------|---------------------------|---------------------------------|----------------------------------|---------------------------------|----------------------------------|-------------------------------|--------------------------------|----------------|---------------------------------|--------------------------------|---------------------------------|---------------------------------|----------------------------------|---------------------------------|---------------------------------|----------------|-------|
|                                 |                           | mm                              |                                  |                                 |                                  |                               |                                |                |                                 | inch                           |                                 |                                 |                                  |                                 |                                 |                |       |
|                                 |                           | N <sub>1</sub>                  | L <sub>2</sub>                   | H <sub>2</sub>                  | N <sub>2</sub>                   | N                             | L <sub>3</sub>                 | A <sub>1</sub> | H <sub>1</sub>                  | H                              | L                               | A <sub>2</sub>                  | A                                | r                               | L <sub>1</sub>                  | B <sub>1</sub> | S     |
| 55                              | UET211D1W3                | 25                              | 21                               | 102                             | 64                               | 35                            | 95                             | 22             | 130                             | 146                            | 171                             | 38                              | 64                               | 65                              | 106                             | 71.4           | 27.75 |
| 2                               | UET211-200D1W3            |                                 |                                  |                                 |                                  |                               |                                |                |                                 |                                |                                 |                                 |                                  |                                 |                                 |                |       |
| 2 <sup>1</sup> / <sub>16</sub>  | UET211-201D1W3            | 31 <sup>1</sup> / <sub>32</sub> | 13 <sup>1</sup> / <sub>16</sub>  | 41 <sup>1</sup> / <sub>32</sub> | 217 <sup>1</sup> / <sub>32</sub> | 1 <sup>3</sup> / <sub>8</sub> | 3 <sup>3</sup> / <sub>4</sub>  | 0.866          | 5 <sup>1</sup> / <sub>8</sub>   | 5 <sup>3</sup> / <sub>4</sub>  | 6 <sup>23</sup> / <sub>32</sub> | 1 <sup>1</sup> / <sub>2</sub>   | 217 <sup>1</sup> / <sub>32</sub> | 2 <sup>9</sup> / <sub>16</sub>  | 4 <sup>3</sup> / <sub>16</sub>  | 2.811          | 1.093 |
| 2 <sup>1</sup> / <sub>8</sub>   | UET211-202D1W3            |                                 |                                  |                                 |                                  |                               |                                |                |                                 |                                |                                 |                                 |                                  |                                 |                                 |                |       |
| 2 <sup>3</sup> / <sub>16</sub>  | UET211-203D1W3            |                                 |                                  |                                 |                                  |                               |                                |                |                                 |                                |                                 |                                 |                                  |                                 |                                 |                |       |
| 60                              | UET212D1W3                | 32                              | 21                               | 102                             | 64                               | 35                            | 102                            | 22             | 130                             | 146                            | 194                             | 42                              | 64                               | 75                              | 119                             | 77.8           | 30.95 |
| 2 <sup>1</sup> / <sub>4</sub>   | UET212-204D1W3            |                                 |                                  |                                 |                                  |                               |                                |                |                                 |                                |                                 |                                 |                                  |                                 |                                 |                |       |
| 2 <sup>5</sup> / <sub>16</sub>  | UET212-205D1W3            | 1 <sup>1</sup> / <sub>4</sub>   | 13 <sup>1</sup> / <sub>16</sub>  | 41 <sup>1</sup> / <sub>32</sub> | 217 <sup>1</sup> / <sub>32</sub> | 1 <sup>3</sup> / <sub>8</sub> | 4 <sup>1</sup> / <sub>32</sub> | 0.866          | 5 <sup>1</sup> / <sub>8</sub>   | 5 <sup>3</sup> / <sub>4</sub>  | 7 <sup>5</sup> / <sub>8</sub>   | 1 <sup>21</sup> / <sub>32</sub> | 217 <sup>1</sup> / <sub>32</sub> | 2 <sup>15</sup> / <sub>16</sub> | 4 <sup>11</sup> / <sub>16</sub> | 3.063          | 1.219 |
| 2 <sup>3</sup> / <sub>8</sub>   | UET212-206D1W3            |                                 |                                  |                                 |                                  |                               |                                |                |                                 |                                |                                 |                                 |                                  |                                 |                                 |                |       |
| 2 <sup>7</sup> / <sub>16</sub>  | UET212-207D1W3            |                                 |                                  |                                 |                                  |                               |                                |                |                                 |                                |                                 |                                 |                                  |                                 |                                 |                |       |
| 65                              | UET213D1W3                | 32                              | 23                               | 111                             | 70                               | 41                            | 121                            | 26             | 151                             | 167                            | 224                             | 44                              | 70                               | 87                              | 137                             | 85.7           | 34.15 |
| 2 <sup>1</sup> / <sub>2</sub>   | UET213-208D1W3            | 1 <sup>1</sup> / <sub>4</sub>   | 29 <sup>29</sup> / <sub>32</sub> | 4 <sup>3</sup> / <sub>8</sub>   | 2 <sup>3</sup> / <sub>4</sub>    | 1 <sup>5</sup> / <sub>8</sub> | 4 <sup>3</sup> / <sub>4</sub>  | 1.024          | 5 <sup>15</sup> / <sub>16</sub> | 6 <sup>9</sup> / <sub>16</sub> | 8 <sup>13</sup> / <sub>16</sub> | 1 <sup>23</sup> / <sub>32</sub> | 2 <sup>3</sup> / <sub>4</sub>    | 3 <sup>7</sup> / <sub>16</sub>  | 5 <sup>13</sup> / <sub>32</sub> | 3.374          | 1.344 |
| 2 <sup>9</sup> / <sub>16</sub>  | UET213-209D1W3            |                                 |                                  |                                 |                                  |                               |                                |                |                                 |                                |                                 |                                 |                                  |                                 |                                 |                |       |
| 70                              | UET214D1W3                | 32                              | 23                               | 111                             | 70                               | 41                            | 121                            | 26             | 151                             | 167                            | 224                             | 46                              | 70                               | 87                              | 137                             | 85.7           | 34.15 |
| 2 <sup>5</sup> / <sub>8</sub>   | UET214-210D1W3            |                                 |                                  |                                 |                                  |                               |                                |                |                                 |                                |                                 |                                 |                                  |                                 |                                 |                |       |
| 2 <sup>11</sup> / <sub>16</sub> | UET214-211D1W3            | 1 <sup>1</sup> / <sub>4</sub>   | 29 <sup>29</sup> / <sub>32</sub> | 4 <sup>3</sup> / <sub>8</sub>   | 2 <sup>3</sup> / <sub>4</sub>    | 1 <sup>5</sup> / <sub>8</sub> | 4 <sup>3</sup> / <sub>4</sub>  | 1.024          | 5 <sup>15</sup> / <sub>16</sub> | 6 <sup>9</sup> / <sub>16</sub> | 8 <sup>13</sup> / <sub>16</sub> | 1 <sup>13</sup> / <sub>16</sub> | 2 <sup>3</sup> / <sub>4</sub>    | 3 <sup>7</sup> / <sub>16</sub>  | 5 <sup>13</sup> / <sub>32</sub> | 3.374          | 1.344 |
| 2 <sup>3</sup> / <sub>4</sub>   | UET214-212D1W3            |                                 |                                  |                                 |                                  |                               |                                |                |                                 |                                |                                 |                                 |                                  |                                 |                                 |                |       |
| 75                              | UET215D1W3                | 32                              | 23                               | 111                             | 70                               | 41                            | 121                            | 26             | 151                             | 167                            | 232                             | 48                              | 70                               | 92                              | 140                             | 92             | 37.3  |
| 2 <sup>13</sup> / <sub>16</sub> | UET215-213D1W3            |                                 |                                  |                                 |                                  |                               |                                |                |                                 |                                |                                 |                                 |                                  |                                 |                                 |                |       |
| 2 <sup>7</sup> / <sub>8</sub>   | UET215-214D1W3            | 1 <sup>1</sup> / <sub>4</sub>   | 29 <sup>29</sup> / <sub>32</sub> | 4 <sup>3</sup> / <sub>8</sub>   | 2 <sup>3</sup> / <sub>4</sub>    | 1 <sup>5</sup> / <sub>8</sub> | 4 <sup>3</sup> / <sub>4</sub>  | 1.024          | 5 <sup>15</sup> / <sub>16</sub> | 6 <sup>9</sup> / <sub>16</sub> | 9 <sup>1</sup> / <sub>8</sub>   | 1 <sup>7</sup> / <sub>8</sub>   | 2 <sup>3</sup> / <sub>4</sub>    | 3 <sup>5</sup> / <sub>8</sub>   | 5 <sup>1</sup> / <sub>2</sub>   | 3.622          | 1.469 |
| 2 <sup>15</sup> / <sub>16</sub> | UET215-215D1W3            |                                 |                                  |                                 |                                  |                               |                                |                |                                 |                                |                                 |                                 |                                  |                                 |                                 |                |       |
| 3                               | UET215-300D1W3            |                                 |                                  |                                 |                                  |                               |                                |                |                                 |                                |                                 |                                 |                                  |                                 |                                 |                |       |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".  
Note: Please refer to page 36 for size of grease fitting.

| Bearing number | Housing number <sup>1)</sup> | Mass (approx.) |    |
|----------------|------------------------------|----------------|----|
|                |                              | kg             | lb |
| UEL211D1W3     | T211D1                       | 4.2            |    |
| UEL211-200D1W3 | T211D1                       |                |    |
| UEL211-201D1W3 | T211D1                       | 9.3            |    |
| UEL211-202D1W3 | T211D1                       |                |    |
| UEL211-203D1W3 | T211D1                       |                |    |
| UEL212D1W3     | T212D1                       | 5.2            |    |
| UEL212-204D1W3 | T212D1                       |                |    |
| UEL212-205D1W3 | T212D1                       | 11             |    |
| UEL212-206D1W3 | T212D1                       |                |    |
| UEL212-207D1W3 | T212D1                       |                |    |
| UEL213D1W3     | T213D1                       | 7.7            |    |
| UEL213-208D1W3 | T213D1                       | 17             |    |
| UEL213-209D1W3 | T213D1                       |                |    |
| UEL214D1W3     | T214D1                       | 7.3            |    |
| UEL214-210D1W3 | T214D1                       |                |    |
| UEL214-211D1W3 | T214D1                       | 16             |    |
| UEL214-212D1W3 | T214D1                       |                |    |
| UEL215D1W3     | T215D1                       | 7.8            |    |
| UEL215-213D1W3 | T215D1                       |                |    |
| UEL215-214D1W3 | T215D1                       | 17             |    |
| UEL215-215D1W3 | T215D1                       |                |    |
| UEL215-300D1W3 | T215D1                       |                |    |

Take-up units cast housing  
Eccentric locking collar type



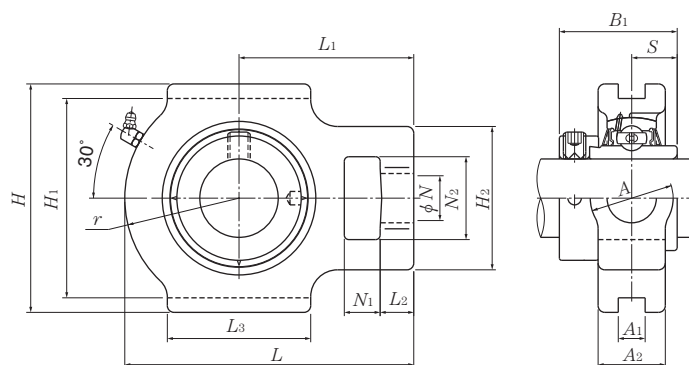
| Shaft<br>dia.   | Unit number <sup>1)</sup> | Nominal dimensions    |                       |                       |                       |                  |                       |                       |                       |                  |                  |                       |                  |                  |                       |                       |          |
|-----------------|---------------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|-----------------------|-----------------------|-----------------------|------------------|------------------|-----------------------|------------------|------------------|-----------------------|-----------------------|----------|
|                 |                           | mm                    |                       |                       |                       |                  |                       |                       |                       | inch             |                  |                       |                  |                  |                       |                       |          |
|                 |                           | <i>N</i> <sub>1</sub> | <i>L</i> <sub>2</sub> | <i>H</i> <sub>2</sub> | <i>N</i> <sub>2</sub> | <i>N</i>         | <i>L</i> <sub>3</sub> | <i>A</i> <sub>1</sub> | <i>H</i> <sub>1</sub> | <i>H</i>         | <i>L</i>         | <i>A</i> <sub>2</sub> | <i>A</i>         | <i>r</i>         | <i>L</i> <sub>1</sub> | <i>B</i> <sub>1</sub> | <i>S</i> |
| <b>25</b>       | <b>UETL305D1W3</b>        | 16                    | 14                    | 62                    | 36                    | 26               | 65                    | 12                    | 80                    | 89               | 122              | 26                    | 36               | 46               | 76                    | 46.8                  | 16.7     |
| $\frac{13}{16}$ | <b>UETL305-013D1W3</b>    |                       |                       |                       |                       |                  |                       |                       |                       |                  |                  |                       |                  |                  |                       |                       |          |
| $\frac{7}{8}$   | <b>UETL305-014D1W3</b>    | $\frac{5}{8}$         | $\frac{9}{16}$        | $2\frac{7}{16}$       | $1\frac{13}{32}$      | $1\frac{1}{32}$  | $2\frac{9}{16}$       | 0.472                 | $3\frac{5}{32}$       | $3\frac{1}{2}$   | $4\frac{13}{16}$ | $1\frac{1}{32}$       | $1\frac{13}{32}$ | $1\frac{13}{16}$ | 3                     | 1.843                 | 0.657    |
| $\frac{15}{16}$ | <b>UETL305-015D1W3</b>    |                       |                       |                       |                       |                  |                       |                       |                       |                  |                  |                       |                  |                  |                       |                       |          |
| <b>1</b>        | <b>UETL305-100D1W3</b>    |                       |                       |                       |                       |                  |                       |                       |                       |                  |                  |                       |                  |                  |                       |                       |          |
| <b>30</b>       | <b>UETL306D1W3</b>        | 18                    | 16                    | 70                    | 41                    | 28               | 74                    | 16                    | 90                    | 100              | 137              | 28                    | 41               | 52               | 85                    | 50                    | 17.5     |
| $\frac{1}{16}$  | <b>UETL306-101D1W3</b>    |                       |                       |                       |                       |                  |                       |                       |                       |                  |                  |                       |                  |                  |                       |                       |          |
| $\frac{1}{8}$   | <b>UETL306-102D1W3</b>    | $2\frac{3}{32}$       | $\frac{5}{8}$         | $2\frac{3}{4}$        | $1\frac{5}{8}$        | $1\frac{3}{32}$  | $2\frac{29}{32}$      | 0.630                 | $3\frac{35}{64}$      | $3\frac{15}{16}$ | $5\frac{13}{32}$ | $1\frac{3}{32}$       | $1\frac{5}{8}$   | $2\frac{1}{16}$  | $3\frac{11}{32}$      | 1.969                 | 0.689    |
| $\frac{3}{16}$  | <b>UETL306-103D1W3</b>    |                       |                       |                       |                       |                  |                       |                       |                       |                  |                  |                       |                  |                  |                       |                       |          |
| <b>35</b>       | <b>UETL307D1W3</b>        | 20                    | 17                    | 75                    | 45                    | 30               | 80                    | 16                    | 100                   | 111              | 150              | 32                    | 45               | 56               | 94                    | 51.6                  | 18.3     |
| $\frac{1}{4}$   | <b>UETL307-104D1W3</b>    |                       |                       |                       |                       |                  |                       |                       |                       |                  |                  |                       |                  |                  |                       |                       |          |
| $\frac{5}{16}$  | <b>UETL307-105D1W3</b>    | $2\frac{5}{32}$       | $2\frac{1}{32}$       | $2\frac{15}{16}$      | $1\frac{25}{32}$      | $1\frac{3}{16}$  | $3\frac{5}{32}$       | 0.630                 | $3\frac{15}{16}$      | $4\frac{3}{8}$   | $5\frac{29}{32}$ | $1\frac{1}{4}$        | $1\frac{25}{32}$ | $2\frac{7}{32}$  | $3\frac{11}{16}$      | 2.031                 | 0.720    |
| $\frac{3}{8}$   | <b>UETL307-106D1W3</b>    |                       |                       |                       |                       |                  |                       |                       |                       |                  |                  |                       |                  |                  |                       |                       |          |
| $\frac{7}{16}$  | <b>UETL307-107D1W3</b>    |                       |                       |                       |                       |                  |                       |                       |                       |                  |                  |                       |                  |                  |                       |                       |          |
| <b>40</b>       | <b>UETL308D1W3</b>        | 22                    | 19                    | 83                    | 50                    | 32               | 89                    | 18                    | 112                   | 124              | 162              | 34                    | 50               | 62               | 100                   | 57.1                  | 19.8     |
| $\frac{1}{2}$   | <b>UETL308-108D1W3</b>    | $\frac{7}{8}$         | $\frac{3}{4}$         | $3\frac{9}{32}$       | $1\frac{31}{32}$      | $1\frac{1}{4}$   | $3\frac{1}{2}$        | 0.709                 | $4\frac{13}{32}$      | $4\frac{7}{8}$   | $6\frac{3}{8}$   | $1\frac{11}{32}$      | $1\frac{31}{32}$ | $2\frac{7}{16}$  | $3\frac{15}{16}$      | 2.248                 | 0.780    |
| $\frac{9}{16}$  | <b>UETL308-109D1W3</b>    |                       |                       |                       |                       |                  |                       |                       |                       |                  |                  |                       |                  |                  |                       |                       |          |
| <b>45</b>       | <b>UETL309D1W3</b>        | 24                    | 20                    | 90                    | 55                    | 34               | 97                    | 18                    | 125                   | 138              | 178              | 38                    | 55               | 68               | 110                   | 58.7                  | 19.8     |
| $\frac{5}{8}$   | <b>UETL309-110D1W3</b>    |                       |                       |                       |                       |                  |                       |                       |                       |                  |                  |                       |                  |                  |                       |                       |          |
| $\frac{11}{16}$ | <b>UETL309-111D1W3</b>    | $1\frac{5}{16}$       | $2\frac{5}{32}$       | $3\frac{17}{32}$      | $2\frac{5}{32}$       | $1\frac{11}{32}$ | $3\frac{13}{16}$      | 0.709                 | $4\frac{59}{64}$      | $5\frac{7}{16}$  | 7                | $1\frac{1}{2}$        | $2\frac{5}{32}$  | $2\frac{11}{16}$ | $4\frac{11}{32}$      | 2.311                 | 0.780    |
| $\frac{3}{4}$   | <b>UETL309-112D1W3</b>    |                       |                       |                       |                       |                  |                       |                       |                       |                  |                  |                       |                  |                  |                       |                       |          |
| <b>50</b>       | <b>UETL310D1W3</b>        | 27                    | 22                    | 98                    | 61                    | 37               | 106                   | 20                    | 140                   | 151              | 192              | 40                    | 61               | 74               | 118                   | 66.6                  | 24.6     |
| $\frac{13}{16}$ | <b>UETL310-113D1W3</b>    |                       |                       |                       |                       |                  |                       |                       |                       |                  |                  |                       |                  |                  |                       |                       |          |
| $\frac{1}{8}$   | <b>UETL310-114D1W3</b>    | $1\frac{1}{16}$       | $\frac{7}{8}$         | $3\frac{27}{32}$      | $2\frac{13}{32}$      | $1\frac{15}{32}$ | $4\frac{3}{16}$       | 0.787                 | $5\frac{33}{64}$      | $5\frac{15}{16}$ | $7\frac{9}{16}$  | $1\frac{9}{16}$       | $2\frac{13}{32}$ | $2\frac{29}{32}$ | $4\frac{21}{32}$      | 2.622                 | 0.969    |
| $\frac{15}{16}$ | <b>UETL310-115D1W3</b>    |                       |                       |                       |                       |                  |                       |                       |                       |                  |                  |                       |                  |                  |                       |                       |          |
| <b>55</b>       | <b>UETL311D1W3</b>        | 29                    | 23                    | 105                   | 66                    | 39               | 115                   | 22                    | 150                   | 163              | 207              | 44                    | 66               | 80               | 127                   | 73                    | 27.8     |
| <b>2</b>        | <b>UETL311-200D1W3</b>    |                       |                       |                       |                       |                  |                       |                       |                       |                  |                  |                       |                  |                  |                       |                       |          |
| $\frac{21}{16}$ | <b>UETL311-201D1W3</b>    | $1\frac{5}{32}$       | $2\frac{9}{32}$       | $4\frac{1}{8}$        | $2\frac{19}{32}$      | $1\frac{17}{32}$ | $4\frac{17}{32}$      | 0.866                 | $5\frac{29}{32}$      | $6\frac{13}{32}$ | $8\frac{5}{32}$  | $1\frac{23}{32}$      | $2\frac{19}{32}$ | $3\frac{5}{32}$  | 5                     | 2.874                 | 1.094    |
| $\frac{21}{8}$  | <b>UETL311-202D1W3</b>    |                       |                       |                       |                       |                  |                       |                       |                       |                  |                  |                       |                  |                  |                       |                       |          |
| $\frac{23}{16}$ | <b>UETL311-203D1W3</b>    |                       |                       |                       |                       |                  |                       |                       |                       |                  |                  |                       |                  |                  |                       |                       |          |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

| Bearing number | Housing number <sup>1)</sup> | Mass<br>(approx.) |
|----------------|------------------------------|-------------------|
|                |                              | kg lb             |
| UEL305D1W3     | T305D1                       | 1.4               |
| UEL305-013D1W3 | T305D1                       |                   |
| UEL305-014D1W3 | T305D1                       | 3.1               |
| UEL305-015D1W3 | T305D1                       |                   |
| UEL305-100D1W3 | T305D1                       |                   |
| UEL306D1W3     | T306D1                       | 1.9               |
| UEL306-101D1W3 | T306D1                       |                   |
| UEL306-102D1W3 | T306D1                       | 4.2               |
| UEL306-103D1W3 | T306D1                       |                   |
| UEL307D1W3     | T307D1                       | 2.4               |
| UEL307-104D1W3 | T307D1                       |                   |
| UEL307-105D1W3 | T307D1                       | 5.3               |
| UEL307-106D1W3 | T307D1                       |                   |
| UEL307-107D1W3 | T307D1                       |                   |
| UEL308D1W3     | T308D1                       | 3.1               |
| UEL308-108D1W3 | T308D1                       | 6.8               |
| UEL308-109D1W3 | T308D1                       |                   |
| UEL309D1W3     | T309D1                       | 4.1               |
| UEL309-110D1W3 | T309D1                       |                   |
| UEL309-111D1W3 | T309D1                       | 9.0               |
| UEL309-112D1W3 | T309D1                       |                   |
| UEL310D1W3     | T310D1                       | 5.2               |
| UEL310-113D1W3 | T310D1                       |                   |
| UEL310-114D1W3 | T310D1                       | 11                |
| UEL310-115D1W3 | T310D1                       |                   |
| UEL311D1W3     | T311D1                       | 6.6               |
| UEL311-200D1W3 | T311D1                       |                   |
| UEL311-201D1W3 | T311D1                       | 15                |
| UEL311-202D1W3 | T311D1                       |                   |
| UEL311-203D1W3 | T311D1                       |                   |

Take-up units cast housing  
Eccentric locking collar type



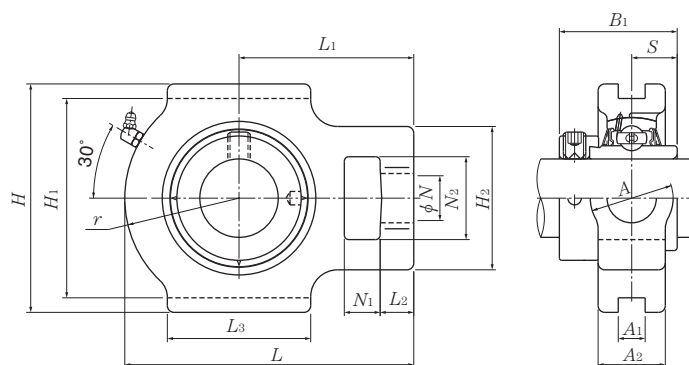
| Shaft<br>dia. | Unit number <sup>1)</sup> | Nominal dimensions |                |                |                |         |                |                |                |         |          |                |         |         |                |                |       |
|---------------|---------------------------|--------------------|----------------|----------------|----------------|---------|----------------|----------------|----------------|---------|----------|----------------|---------|---------|----------------|----------------|-------|
|               |                           | mm                 |                |                |                |         |                |                |                | inch    |          |                |         |         |                |                |       |
|               |                           | N <sub>1</sub>     | L <sub>2</sub> | H <sub>2</sub> | N <sub>2</sub> | N       | L <sub>3</sub> | A <sub>1</sub> | H <sub>1</sub> | H       | L        | A <sub>2</sub> | A       | r       | L <sub>1</sub> | B <sub>1</sub> | S     |
| 60            | UETL312D1W3               | 31                 | 25             | 113            | 71             | 41      | 123            | 22             | 160            | 178     | 220      | 46             | 71      | 85      | 135            | 79.4           | 30.95 |
| 2 1/4         | UETL312-204D1W3           |                    |                |                |                |         |                |                |                |         |          |                |         |         |                |                |       |
| 2 5/16        | UETL312-205D1W3           | 1 7/32             | 3 1/32         | 4 7/16         | 2 25/32        | 1 5/8   | 4 27/32        | 0.866          | 6 19/64        | 7       | 8 21/32  | 1 13/16        | 2 25/32 | 3 11/32 | 5 5/16         | 3.126          | 1.219 |
| 2 3/8         | UETL312-206D1W3           |                    |                |                |                |         |                |                |                |         |          |                |         |         |                |                |       |
| 2 7/16        | UETL312-207D1W3           |                    |                |                |                |         |                |                |                |         |          |                |         |         |                |                |       |
| 65            | UETL313D1W3               | 32                 | 27             | 116            | 70             | 43      | 134            | 26             | 170            | 190     | 238      | 50             | 80      | 92      | 146            | 85.7           | 32.55 |
| 2 1/2         | UETL313-208D1W3           | 1 1/4              | 1 1/16         | 4 9/16         | 2 3/4          | 1 11/16 | 5 9/32         | 1.024          | 6 11/16        | 7 15/32 | 9 3/8    | 1 31/32        | 3 5/32  | 3 5/8   | 5 3/4          | 3.374          | 1.281 |
| 2 9/16        | UETL313-209D1W3           |                    |                |                |                |         |                |                |                |         |          |                |         |         |                |                |       |
| 70            | UETL314D1W3               | 36                 | 27             | 130            | 85             | 46      | 140            | 26             | 180            | 202     | 252      | 52             | 90      | 97      | 155            | 92.1           | 34.15 |
| 2 5/8         | UETL314-210D1W3           |                    |                |                |                |         |                |                |                |         |          |                |         |         |                |                |       |
| 2 11/16       | UETL314-211D1W3           | 1 13/32            | 1 1/16         | 5 1/8          | 3 11/32        | 1 13/16 | 5 1/2          | 1.024          | 7 3/32         | 7 15/16 | 9 29/32  | 2 1/16         | 3 17/32 | 3 13/16 | 6 3/32         | 3.626          | 1.344 |
| 2 3/4         | UETL314-212D1W3           |                    |                |                |                |         |                |                |                |         |          |                |         |         |                |                |       |
| 75            | UETL315D1W3               | 36                 | 27             | 132            | 85             | 46      | 150            | 26             | 192            | 216     | 262      | 55             | 90      | 102     | 160            | 100            | 37.3  |
| 2 13/16       | UETL315-213D1W3           |                    |                |                |                |         |                |                |                |         |          |                |         |         |                |                |       |
| 2 7/8         | UETL315-214D1W3           | 1 13/32            | 1 1/16         | 5 3/16         | 3 11/32        | 1 13/16 | 5 29/32        | 1.024          | 7 9/16         | 8 1/2   | 10 5/16  | 2 5/32         | 3 17/32 | 4 1/32  | 6 5/16         | 3.937          | 1.469 |
| 2 15/16       | UETL315-215D1W3           |                    |                |                |                |         |                |                |                |         |          |                |         |         |                |                |       |
| 3             | UETL315-300D1W3           |                    |                |                |                |         |                |                |                |         |          |                |         |         |                |                |       |
| 80            | UETL316D1W3               | 42                 | 30             | 150            | 98             | 53      | 160            | 30             | 204            | 230     | 282      | 60             | 102     | 108     | 174            | 106.4          | 40.5  |
| 3 1/16        | UETL316-301D1W3           |                    |                |                |                |         |                |                |                |         |          |                |         |         |                |                |       |
| 3 1/8         | UETL316-302D1W3           | 1 21/32            | 1 3/16         | 5 29/32        | 3 27/32        | 2 3/32  | 6 5/16         | 1.181          | 8 1/32         | 9 1/16  | 11 3/32  | 2 3/8          | 4 1/32  | 4 1/4   | 6 27/32        | 4.189          | 1.594 |
| 3 3/16        | UETL316-303D1W3           |                    |                |                |                |         |                |                |                |         |          |                |         |         |                |                |       |
| 85            | UETL317D1W3               | 42                 | 32             | 152            | 98             | 53      | 170            | 32             | 214            | 240     | 298      | 64             | 102     | 115     | 183            | 109.5          | 42.05 |
| 3 1/4         | UETL317-304D1W3           |                    |                |                |                |         |                |                |                |         |          |                |         |         |                |                |       |
| 3 5/16        | UETL317-305D1W3           | 1 21/32            | 1 1/4          | 5 31/32        | 3 27/32        | 2 3/32  | 6 11/16        | 1.260          | 8 27/64        | 9 7/16  | 11 23/32 | 2 17/32        | 4 1/32  | 4 17/32 | 7 7/32         | 4.311          | 1.656 |
| 3 7/16        | UETL317-307D1W3           |                    |                |                |                |         |                |                |                |         |          |                |         |         |                |                |       |
| 90            | UETL318D1W3               | 46                 | 32             | 160            | 106            | 57      | 175            | 32             | 228            | 255     | 312      | 66             | 110     | 120     | 192            | 115.9          | 43.65 |
| 3 7/16        | UETL318-307D1W3           | 1 13/16            | 1 1/4          | 6 5/16         | 4 3/16         | 2 1/4   | 6 7/8          | 1.260          | 8 31/32        | 10 1/32 | 12 9/32  | 2 19/32        | 4 11/32 | 4 23/32 | 7 9/16         | 4.563          | 1.719 |
| 3 1/2         | UETL318-308D1W3           |                    |                |                |                |         |                |                |                |         |          |                |         |         |                |                |       |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

| Bearing number | Housing number <sup>1)</sup> | Mass (approx.) |    |
|----------------|------------------------------|----------------|----|
|                |                              | kg             | lb |
| UEL312D1W3     | T312D1                       | 7.9            |    |
| UEL312-204D1W3 | T312D1                       |                |    |
| UEL312-205D1W3 | T312D1                       | 17             |    |
| UEL312-206D1W3 | T312D1                       |                |    |
| UEL312-207D1W3 | T312D1                       |                |    |
| UEL313D1W3     | T313D1                       | 9.8            |    |
| UEL313-208D1W3 | T313D1                       | 22             |    |
| UEL313-209D1W3 | T313D1                       |                |    |
| UEL314D1W3     | T314D1                       | 11             |    |
| UEL314-210D1W3 | T314D1                       |                |    |
| UEL314-211D1W3 | T314D1                       | 24             |    |
| UEL314-212D1W3 | T314D1                       |                |    |
| UEL315D1W3     | T315D1                       | 14             |    |
| UEL315-213D1W3 | T315D1                       |                |    |
| UEL315-214D1W3 | T315D1                       | 31             |    |
| UEL315-215D1W3 | T315D1                       |                |    |
| UEL315-300D1W3 | T315D1                       |                |    |
| UEL316D1W3     | T316D1                       | 17             |    |
| UEL316-301D1W3 | T316D1                       |                |    |
| UEL316-302D1W3 | T316D1                       | 37             |    |
| UEL316-303D1W3 | T316D1                       |                |    |
| UEL317D1W3     | T317D1                       | 20             |    |
| UEL317-304D1W3 | T317D1                       |                |    |
| UEL317-305D1W3 | T317D1                       | 44             |    |
| UEL317-307D1W3 | T317D1                       |                |    |
| UEL318D1W3     | T318D1                       | 23             |    |
| UEL318-307D1W3 | T318D1                       | 51             |    |
| UEL318-308D1W3 | T318D1                       |                |    |

Take-up units cast housing  
Eccentric locking collar type



| Shaft<br>dia.                       | Unit number <sup>1)</sup> | Nominal dimensions              |                                 |                               |                                 |                                |                                |                |                                  |                                  |                                  |                                 |                                 |                                 |                                |                |       |
|-------------------------------------|---------------------------|---------------------------------|---------------------------------|-------------------------------|---------------------------------|--------------------------------|--------------------------------|----------------|----------------------------------|----------------------------------|----------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------------|----------------|-------|
|                                     |                           | mm                              |                                 |                               |                                 |                                |                                |                |                                  | inch                             |                                  |                                 |                                 |                                 |                                |                |       |
|                                     |                           | N <sub>1</sub>                  | L <sub>2</sub>                  | H <sub>2</sub>                | N <sub>2</sub>                  | N                              | L <sub>3</sub>                 | A <sub>1</sub> | H <sub>1</sub>                   | H                                | L                                | A <sub>2</sub>                  | A                               | r                               | L <sub>1</sub>                 | B <sub>1</sub> | S     |
| <b>95</b>                           | <b>UET319D1W3</b>         | 46                              | 33                              | 165                           | 106                             | 57                             | 180                            | 35             | 240                              | 270                              | 322                              | 72                              | 110                             | 125                             | 197                            | 122.3          | 38.9  |
| <b>3<sup>5</sup>/<sub>8</sub></b>   | <b>UET319-310D1W3</b>     |                                 |                                 |                               |                                 |                                |                                |                |                                  |                                  |                                  |                                 |                                 |                                 |                                |                |       |
| <b>3<sup>11</sup>/<sub>16</sub></b> | <b>UET319-311D1W3</b>     | 1 <sup>13</sup> / <sub>16</sub> | 1 <sup>5</sup> / <sub>16</sub>  | 6 <sup>1</sup> / <sub>2</sub> | 4 <sup>3</sup> / <sub>16</sub>  | 2 <sup>1</sup> / <sub>4</sub>  | 7 <sup>3</sup> / <sub>32</sub> | 1.378          | 9 <sup>29</sup> / <sub>64</sub>  | 10 <sup>5</sup> / <sub>8</sub>   | 12 <sup>11</sup> / <sub>16</sub> | 2 <sup>27</sup> / <sub>32</sub> | 4 <sup>11</sup> / <sub>32</sub> | 4 <sup>29</sup> / <sub>32</sub> | 7 <sup>3</sup> / <sub>4</sub>  | 4.815          | 1.531 |
| <b>3<sup>3</sup>/<sub>4</sub></b>   | <b>UET319-312D1W3</b>     |                                 |                                 |                               |                                 |                                |                                |                |                                  |                                  |                                  |                                 |                                 |                                 |                                |                |       |
| <b>100</b>                          | <b>UET320D1W3</b>         | 48                              | 34                              | 175                           | 115                             | 59                             | 200                            | 35             | 260                              | 290                              | 345                              | 75                              | 120                             | 135                             | 210                            | 128.6          | 50    |
| <b>3<sup>13</sup>/<sub>16</sub></b> | <b>UET320-313D1W3</b>     |                                 |                                 |                               |                                 |                                |                                |                |                                  |                                  |                                  |                                 |                                 |                                 |                                |                |       |
| <b>3<sup>7</sup>/<sub>8</sub></b>   | <b>UET320-314D1W3</b>     | 1 <sup>7</sup> / <sub>8</sub>   | 1 <sup>11</sup> / <sub>32</sub> | 6 <sup>7</sup> / <sub>8</sub> | 4 <sup>17</sup> / <sub>32</sub> | 2 <sup>5</sup> / <sub>16</sub> | 7 <sup>7</sup> / <sub>8</sub>  | 1.378          | 10 <sup>15</sup> / <sub>64</sub> | 11 <sup>13</sup> / <sub>32</sub> | 13 <sup>19</sup> / <sub>32</sub> | 2 <sup>15</sup> / <sub>16</sub> | 4 <sup>23</sup> / <sub>32</sub> | 5 <sup>5</sup> / <sub>16</sub>  | 8 <sup>9</sup> / <sub>32</sub> | 5.063          | 1.969 |
| <b>3<sup>15</sup>/<sub>16</sub></b> | <b>UET320-315D1W3</b>     |                                 |                                 |                               |                                 |                                |                                |                |                                  |                                  |                                  |                                 |                                 |                                 |                                |                |       |
| <b>4</b>                            | <b>UET320-400D1W3</b>     |                                 |                                 |                               |                                 |                                |                                |                |                                  |                                  |                                  |                                 |                                 |                                 |                                |                |       |
| <b>105</b>                          | <b>UET321D1W3</b>         | 48                              | 34                              | 175                           | 115                             | 59                             | 200                            | 35             | 260                              | 290                              | 347                              | 75                              | 120                             | 135                             | 212                            | 139.7          | 48.4  |
| <b>110</b>                          | <b>UET322D1W3</b>         | 52                              | 40                              | 185                           | 125                             | 65                             | 215                            | 38             | 285                              | 320                              | 385                              | 80                              | 130                             | 150                             | 235                            | 141.3          | 49.2  |

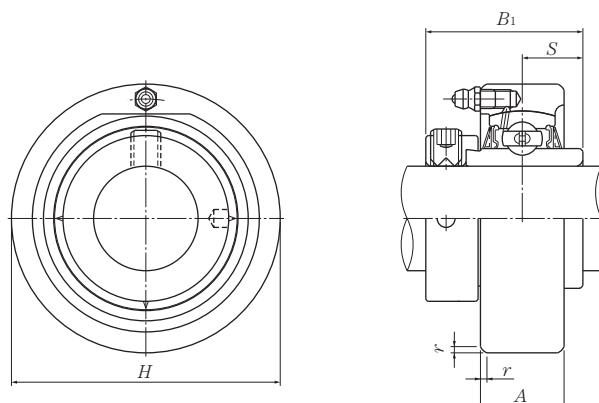
Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

| Bearing number | Housing number <sup>1)</sup> | Mass (approx.) |    |
|----------------|------------------------------|----------------|----|
|                |                              | kg             | lb |
| UEL319D1W3     | T319D1                       | 26             |    |
| UEL319-310D1W3 | T319D1                       |                |    |
| UEL319-311D1W3 | T319D1                       | 57             |    |
| UEL319-312D1W3 | T319D1                       |                |    |
| UEL320D1W3     | T320D1                       | 32             |    |
| UEL320-313D1W3 | T320D1                       |                |    |
| UEL320-314D1W3 | T320D1                       | 71             |    |
| UEL320-315D1W3 | T320D1                       |                |    |
| UEL320-400D1W3 | T320D1                       |                |    |
| UEL321D1D1W3   | T321D1                       | 33             |    |
| UEL322D1D1W3   | T322D1                       | 42             |    |

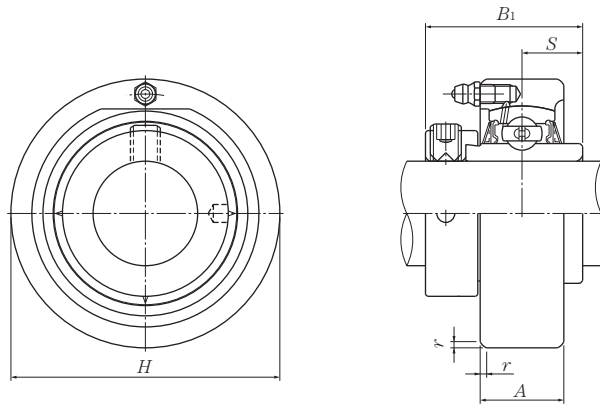


Cartridge units cast housing  
Eccentric locking collar type



| Shaft<br>dia.                            | Unit number <sup>1)</sup>                                                               | Nominal dimensions |               |              |                |                | Bearing number                                                                     | Housing <sup>1)</sup><br>number                | Mass<br>(approx.) |
|------------------------------------------|-----------------------------------------------------------------------------------------|--------------------|---------------|--------------|----------------|----------------|------------------------------------------------------------------------------------|------------------------------------------------|-------------------|
|                                          |                                                                                         | H                  | A             | r            | B <sub>1</sub> | S              |                                                                                    |                                                |                   |
| mm<br>inch                               |                                                                                         |                    |               |              |                |                |                                                                                    |                                                | kg lb             |
| 20<br>3/4                                | UELC204D1W3<br>UELC204-012D1W3                                                          | 72<br>2.8346       | 20<br>25/32   | 2<br>0.079   | 43.7<br>1.720  | 17.1<br>0.673  | UEL204D1W3<br>UEL204-012D1W3                                                       | C204D1<br>C204D1                               | 0.6<br>1.3        |
| 25<br>13/16<br>7/8<br>15/16<br>1         | UELC205D1W3<br>UELC205-013D1W3<br>UELC205-014D1W3<br>UELC205-015D1W3<br>UELC205-100D1W3 | 80<br>3.1496       | 22<br>55/64   | 2<br>0.079   | 44.4<br>1.748  | 17.45<br>0.687 | UEL205D1W3<br>UEL205-013D1W3<br>UEL205-014D1W3<br>UEL205-015D1W3<br>UEL205-100D1W3 | C205D1<br>C205D1<br>C205D1<br>C205D1<br>C205D1 | 0.7<br>1.5        |
| 30<br>1 1/16<br>1 1/8<br>1 3/16<br>1 1/4 | UELC206D1W3<br>UELC206-101D1W3<br>UELC206-102D1W3<br>UELC206-103D1W3<br>UELC206-104D1W3 | 85<br>3.3465       | 27<br>1 1/16  | 2<br>0.079   | 48.4<br>1.906  | 18.25<br>0.719 | UEL206D1W3<br>UEL206-101D1W3<br>UEL206-102D1W3<br>UEL206-103D1W3<br>UEL206-104D1W3 | C206D1<br>C206D1<br>C206D1<br>C206D1<br>C206D1 | 0.9<br>2.0        |
| 35<br>1 1/4<br>1 5/16<br>1 3/8<br>1 7/16 | UELC207D1W3<br>UELC207-104D1W3<br>UELC207-105D1W3<br>UELC207-106D1W3<br>UELC207-107D1W3 | 90<br>3.5433       | 28<br>1 7/64  | 2<br>0.079   | 51.1<br>2.012  | 18.8<br>0.740  | UEL207D1W3<br>UEL207-104D1W3<br>UEL207-105D1W3<br>UEL207-106D1W3<br>UEL207-107D1W3 | C207D1<br>C207D1<br>C207D1<br>C207D1<br>C207D1 | 1.0<br>2.2        |
| 40<br>1 1/2<br>1 9/16                    | UELC208D1W3<br>UELC208-108D1W3<br>UELC208-109D1W3                                       | 100<br>3.9370      | 30<br>1 3/16  | 2.5<br>0.098 | 56.3<br>2.217  | 21.4<br>0.843  | UEL208D1W3<br>UEL208-108D1W3<br>UEL208-109D1W3                                     | C208D1<br>C208D1<br>C208D1                     | 1.4<br>3.1        |
| 45<br>1 5/8<br>1 11/16<br>1 3/4          | UELC209D1W3<br>UELC209-110D1W3<br>UELC209-111D1W3<br>UELC209-112D1W3                    | 110<br>4.3307      | 31<br>1 7/32  | 2.5<br>0.098 | 56.3<br>2.217  | 21.4<br>0.843  | UEL209D1W3<br>UEL209-110D1W3<br>UEL209-111D1W3<br>UEL209-112D1W3                   | C209D1<br>C209D1<br>C209D1<br>C209D1           | 1.6<br>3.5        |
| 50<br>1 13/16<br>1 7/8<br>1 15/16<br>2   | UELC210D1W3<br>UELC210-113D1W3<br>UELC210-114D1W3<br>UELC210-115D1W3<br>UELC210-200D1W3 | 120<br>4.7244      | 33<br>1 19/64 | 2.5<br>0.098 | 62.7<br>2.469  | 24.6<br>0.969  | UEL210D1W3<br>UEL210-113D1W3<br>UEL210-114D1W3<br>UEL210-115D1W3<br>UEL210-200D1W3 | C210D1<br>C210D1<br>C210D1<br>C210D1<br>C210D1 | 2.1<br>4.6        |

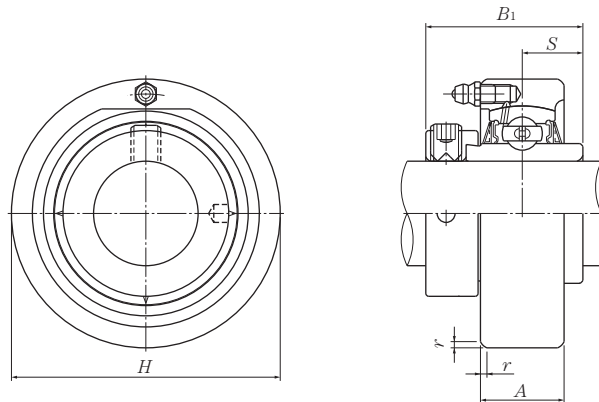
Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".  
Note: Please refer to page 36 for size of grease fitting.



| Shaft<br>dia.                      | Unit number <sup>1)</sup> | Nominal dimensions |                               |            |                       |              | Bearing number    | Housing <sup>1)</sup><br>number | Mass<br>(approx.) |
|------------------------------------|---------------------------|--------------------|-------------------------------|------------|-----------------------|--------------|-------------------|---------------------------------|-------------------|
|                                    |                           | <i>H</i>           | <i>A</i>                      | <i>r</i>   | <i>B</i> <sub>1</sub> | <i>S</i>     |                   |                                 |                   |
| mm                                 |                           |                    |                               |            |                       |              |                   |                                 | kg                |
| inch                               |                           |                    |                               |            |                       |              |                   |                                 | lb                |
| <b>55</b>                          | <b>UELC211D1W3</b>        | <b>125</b>         | <b>35</b>                     | <b>2.5</b> | <b>71.4</b>           | <b>27.75</b> | <b>UEL211D1W3</b> | <b>C211D1</b>                   | <b>2.4</b>        |
| <b>2</b>                           | <b>UELC211-200D1W3</b>    |                    |                               |            |                       |              | UEL211-200D1W3    | C211D1                          |                   |
| <b>2<sup>1</sup>/<sub>16</sub></b> | <b>UELC211-201D1W3</b>    | 4.9213             | 1 <sup>3</sup> / <sub>8</sub> | 0.098      | 2.811                 | 1.093        | UEL211-201D1W3    | C211D1                          | 5.3               |
| <b>2<sup>1</sup>/<sub>8</sub></b>  | <b>UELC211-202D1W3</b>    |                    |                               |            |                       |              | UEL211-202D1W3    | C211D1                          |                   |
| <b>2<sup>3</sup>/<sub>16</sub></b> | <b>UELC211-203D1W3</b>    |                    |                               |            |                       |              | UEL211-203D1W3    | C211D1                          |                   |
| <b>60</b>                          | <b>UELC212D1W3</b>        | <b>130</b>         | <b>38</b>                     | <b>2.5</b> | <b>77.8</b>           | <b>30.95</b> | <b>UEL212D1W3</b> | <b>C212D1</b>                   | <b>2.8</b>        |
| <b>2<sup>1</sup>/<sub>4</sub></b>  | <b>UELC212-204D1W3</b>    |                    |                               |            |                       |              | UEL212-204D1W3    | C212D1                          |                   |
| <b>2<sup>5</sup>/<sub>16</sub></b> | <b>UELC212-205D1W3</b>    | 5.1181             | 1 <sup>1</sup> / <sub>2</sub> | 0.098      | 3.063                 | 1.219        | UEL212-205D1W3    | C212D1                          | 6.2               |
| <b>2<sup>3</sup>/<sub>8</sub></b>  | <b>UELC212-206D1W3</b>    |                    |                               |            |                       |              | UEL212-206D1W3    | C212D1                          |                   |
| <b>2<sup>7</sup>/<sub>16</sub></b> | <b>UELC212-207D1W3</b>    |                    |                               |            |                       |              | UEL212-207D1W3    | C212D1                          |                   |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".  
Note: Please refer to page 36 for size of grease fitting.

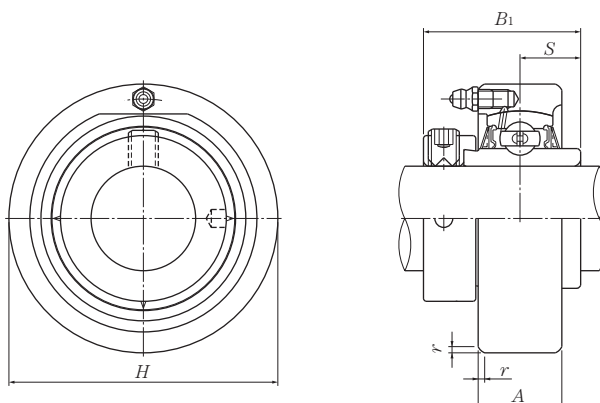
**Cartridge units cast housing  
Eccentric locking collar type**



| Shaft<br>dia.   | Unit number <sup>1)</sup> | Nominal dimensions |                  |       |                |       | Bearing number    | Housing <sup>1)</sup><br>number | Mass<br>(approx.) |
|-----------------|---------------------------|--------------------|------------------|-------|----------------|-------|-------------------|---------------------------------|-------------------|
|                 |                           | H                  | A                | r     | B <sub>1</sub> | S     |                   |                                 |                   |
| mm<br>inch      |                           |                    |                  |       |                |       |                   |                                 | kg lb             |
| <b>25</b>       | <b>UELC305D1W3</b>        | 90                 | 26               | 2.5   | 46.8           | 16.7  | <b>UEL305D1W3</b> | <b>C305D1</b>                   | 1.0               |
| $\frac{13}{16}$ | <b>UELC305-013D1W3</b>    |                    |                  |       |                |       | UEL305-013D1W3    | C305D1                          |                   |
| $\frac{7}{8}$   | <b>UELC305-014D1W3</b>    | 3.5433             | $1\frac{1}{32}$  | 0.098 | 1.843          | 0.657 | UEL305-014D1W3    | C305D1                          | 2.4               |
| $\frac{15}{16}$ | <b>UELC305-015D1W3</b>    |                    |                  |       |                |       | UEL305-015D1W3    | C305D1                          |                   |
| <b>1</b>        | <b>UELC305-100D1W3</b>    |                    |                  |       |                |       | UEL305-100D1W3    | C305D1                          |                   |
| <b>30</b>       | <b>UELC306D1W3</b>        | 100                | 28               | 2.5   | 50             | 17.5  | <b>UEL306D1W3</b> | <b>C306D1</b>                   | 1.4               |
| $\frac{1}{16}$  | <b>UELC306-101D1W3</b>    |                    |                  |       |                |       | UEL306-101D1W3    | C306D1                          |                   |
| $\frac{1}{8}$   | <b>UELC306-102D1W3</b>    | 3.9370             | $1\frac{7}{64}$  | 0.098 | 1.969          | 0.689 | UEL306-102D1W3    | C306D1                          | 3.3               |
| $\frac{3}{16}$  | <b>UELC306-103D1W3</b>    |                    |                  |       |                |       | UEL306-103D1W3    | C306D1                          |                   |
| <b>35</b>       | <b>UELC307D1W3</b>        | 110                | 32               | 3     | 51.6           | 18.3  | <b>UEL307D1W3</b> | <b>C307D1</b>                   | 1.8               |
| $\frac{1}{4}$   | <b>UELC307-104D1W3</b>    |                    |                  |       |                |       | UEL307-104D1W3    | C307D1                          |                   |
| $\frac{5}{16}$  | <b>UELC307-105D1W3</b>    | 4.3307             | $1\frac{17}{64}$ | 0.118 | 2.031          | 0.720 | UEL307-105D1W3    | C307D1                          | 4.0               |
| $\frac{3}{8}$   | <b>UELC307-106D1W3</b>    |                    |                  |       |                |       | UEL307-106D1W3    | C307D1                          |                   |
| $\frac{7}{16}$  | <b>UELC307-107D1W3</b>    |                    |                  |       |                |       | UEL307-107D1W3    | C307D1                          |                   |
| <b>40</b>       | <b>UELC308D1W3</b>        | 120                | 34               | 3     | 57.1           | 19.8  | <b>UEL308D1W3</b> | <b>C308D1</b>                   | 2.3               |
| $\frac{1}{2}$   | <b>UELC308-108D1W3</b>    | 4.7244             | $1\frac{11}{32}$ | 0.118 | 2.248          | 0.780 | UEL308-108D1W3    | C308D1                          | 5.1               |
| $\frac{9}{16}$  | <b>UELC308-109D1W3</b>    |                    |                  |       |                |       | UEL308-109D1W3    | C308D1                          |                   |
| <b>45</b>       | <b>UELC309D1W3</b>        | 130                | 38               | 3.5   | 58.7           | 19.8  | <b>UEL309D1W3</b> | <b>C309D1</b>                   | 2.9               |
| $\frac{5}{8}$   | <b>UELC309-110D1W3</b>    |                    |                  |       |                |       | UEL309-110D1W3    | C309D1                          |                   |
| $\frac{11}{16}$ | <b>UELC309-111D1W3</b>    | 5.1181             | $1\frac{1}{2}$   | 0.138 | 2.311          | 0.780 | UEL309-111D1W3    | C309D1                          | 6.4               |
| $\frac{3}{4}$   | <b>UELC309-112D1W3</b>    |                    |                  |       |                |       | UEL309-112D1W3    | C309D1                          |                   |
| <b>50</b>       | <b>UELC310D1W3</b>        | 140                | 40               | 3.5   | 66.6           | 24.6  | <b>UEL310D1W3</b> | <b>C310D1</b>                   | 3.5               |
| $\frac{13}{16}$ | <b>UELC310-113D1W3</b>    |                    |                  |       |                |       | UEL310-113D1W3    | C310D1                          |                   |
| $\frac{1}{8}$   | <b>UELC310-114D1W3</b>    | 5.5118             | $1\frac{37}{64}$ | 0.138 | 2.622          | 0.969 | UEL310-114D1W3    | C310D1                          | 7.7               |
| $\frac{15}{16}$ | <b>UELC310-115D1W3</b>    |                    |                  |       |                |       | UEL310-115D1W3    | C310D1                          |                   |
| <b>55</b>       | <b>UELC311D1W3</b>        | 150                | 44               | 3.5   | 73             | 27.8  | <b>UEL311D1W3</b> | <b>C311D1</b>                   | 4.3               |
| <b>2</b>        | <b>UELC311-200D1W3</b>    |                    |                  |       |                |       | UEL311-200D1W3    | C311D1                          |                   |
| $\frac{1}{16}$  | <b>UELC311-201D1W3</b>    | 5.9055             | $1\frac{47}{64}$ | 0.138 | 2.874          | 1.094 | UEL311-201D1W3    | C311D1                          | 9.3               |
| $\frac{1}{8}$   | <b>UELC311-202D1W3</b>    |                    |                  |       |                |       | UEL311-202D1W3    | C311D1                          |                   |
| $\frac{3}{16}$  | <b>UELC311-203D1W3</b>    |                    |                  |       |                |       | UEL311-203D1W3    | C311D1                          |                   |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

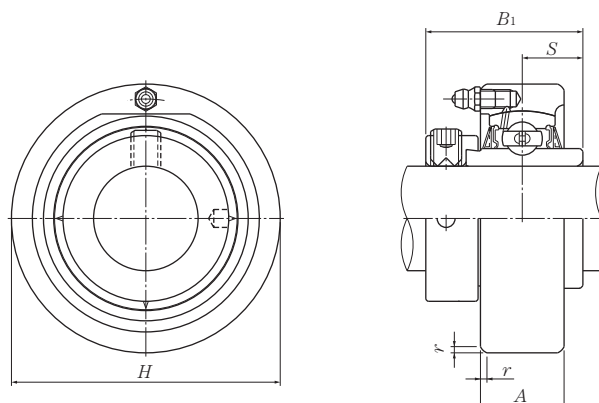


| Shaft<br>dia.                   | Unit number <sup>1)</sup> | Nominal dimensions |                                 |       |                |       | Bearing number | Housing <sup>1)</sup><br>number | Mass<br>(approx.) |
|---------------------------------|---------------------------|--------------------|---------------------------------|-------|----------------|-------|----------------|---------------------------------|-------------------|
|                                 |                           | H                  | A                               | r     | B <sub>1</sub> | S     |                |                                 |                   |
| mm                              |                           |                    |                                 |       |                |       |                |                                 |                   |
| inch                            |                           |                    |                                 |       |                |       |                |                                 |                   |
| 60                              | UELC312D1W3               | 160                | 46                              | 3.5   | 79.4           | 30.95 | UEL312D1W3     | C312D1                          | 5.1               |
| 2 <sup>1</sup> / <sub>4</sub>   | UELC312-204D1W3           |                    |                                 |       |                |       | UEL312-204D1W3 | C312D1                          |                   |
| 2 <sup>5</sup> / <sub>16</sub>  | UELC312-205D1W3           | 6.2992             | 1 <sup>13</sup> / <sub>16</sub> | 0.138 | 3.126          | 1.219 | UEL312-205D1W3 | C312D1                          | 11                |
| 2 <sup>3</sup> / <sub>8</sub>   | UELC312-206D1W3           |                    |                                 |       |                |       | UEL312-206D1W3 | C312D1                          |                   |
| 2 <sup>7</sup> / <sub>16</sub>  | UELC312-207D1W3           |                    |                                 |       |                |       | UEL312-207D1W3 | C312D1                          |                   |
| 65                              | UELC313D1W3               | 170                | 50                              | 3.5   | 85.7           | 32.55 | UEL313D1W3     | C313D1                          | 6.2               |
| 2 <sup>1</sup> / <sub>2</sub>   | UELC313-208D1W3           | 6.6929             | 1 <sup>31</sup> / <sub>32</sub> | 0.138 | 3.374          | 1.281 | UEL313-208D1W3 | C313D1                          | 14                |
| 2 <sup>9</sup> / <sub>16</sub>  | UELC313-209D1W3           |                    |                                 |       |                |       | UEL313-209D1W3 | C313D1                          |                   |
| 70                              | UELC314D1W3               | 180                | 52                              | 4     | 92.1           | 34.15 | UEL314D1W3     | C314D1                          | 7.3               |
| 2 <sup>5</sup> / <sub>8</sub>   | UELC314-210D1W3           |                    |                                 |       |                |       | UEL314-210D1W3 | C314D1                          |                   |
| 2 <sup>11</sup> / <sub>16</sub> | UELC314-211D1W3           | 7.0866             | 2 <sup>3</sup> / <sub>64</sub>  | 0.157 | 3.626          | 1.344 | UEL314-211D1W3 | C314D1                          | 16                |
| 2 <sup>3</sup> / <sub>4</sub>   | UELC314-212D1W3           |                    |                                 |       |                |       | UEL314-212D1W3 | C314D1                          |                   |
| 75                              | UELC315D1W3               | 190                | 55                              | 4     | 100            | 37.3  | UEL315D1W3     | C315D1                          | 8.5               |
| 2 <sup>13</sup> / <sub>16</sub> | UELC315-213D1W3           |                    |                                 |       |                |       | UEL315-213D1W3 | C315D1                          |                   |
| 2 <sup>7</sup> / <sub>8</sub>   | UELC315-214D1W3           | 7.4803             | 2 <sup>11</sup> / <sub>64</sub> | 0.157 | 3.937          | 1.469 | UEL315-214D1W3 | C315D1                          | 19                |
| 2 <sup>15</sup> / <sub>16</sub> | UELC315-215D1W3           |                    |                                 |       |                |       | UEL315-215D1W3 | C315D1                          |                   |
| 3                               | UELC315-300D1W3           |                    |                                 |       |                |       | UEL315-300D1W3 | C315D1                          |                   |
| 80                              | UELC316D1W3               | 200                | 60                              | 4     | 106.4          | 40.5  | UEL316D1W3     | C316D1                          | 10                |
| 3 <sup>1</sup> / <sub>16</sub>  | UELC316-301D1W3           |                    |                                 |       |                |       | UEL316-301D1W3 | C316D1                          |                   |
| 3 <sup>1</sup> / <sub>8</sub>   | UELC316-302D1W3           | 7.8740             | 2 <sup>23</sup> / <sub>64</sub> | 0.157 | 4.189          | 1.594 | UEL316-302D1W3 | C316D1                          | 22                |
| 3 <sup>3</sup> / <sub>16</sub>  | UELC316-303D1W3           |                    |                                 |       |                |       | UEL316-303D1W3 | C316D1                          |                   |
| 85                              | UELC317D1W3               | 215                | 64                              | 4     | 109.5          | 42.05 | UEL317D1W3     | C317D1                          | 13                |
| 3 <sup>1</sup> / <sub>4</sub>   | UELC317-304D1W3           |                    |                                 |       |                |       | UEL317-304D1W3 | C317D1                          |                   |
| 3 <sup>5</sup> / <sub>16</sub>  | UELC317-305D1W3           | 8.4646             | 2 <sup>33</sup> / <sub>64</sub> | 0.157 | 4.311          | 1.656 | UEL317-305D1W3 | C317D1                          | 29                |
| 3 <sup>7</sup> / <sub>16</sub>  | UELC317-307D1W3           |                    |                                 |       |                |       | UEL317-307D1W3 | C317D1                          |                   |
| 90                              | UELC318D1W3               | 225                | 66                              | 4     | 115.9          | 43.65 | UEL318D1W3     | C318D1                          | 14                |
| 3 <sup>7</sup> / <sub>16</sub>  | UELC318-307D1W3           | 8.8583             | 2 <sup>19</sup> / <sub>32</sub> | 0.157 | 4.563          | 1.719 | UEL318-307D1W3 | C318D1                          | 31                |
| 3 <sup>1</sup> / <sub>2</sub>   | UELC318-308D1W3           |                    |                                 |       |                |       | UEL318-308D1W3 | C318D1                          |                   |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.

**Cartridge units cast housing**  
**Eccentric locking collar type**



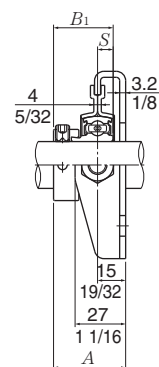
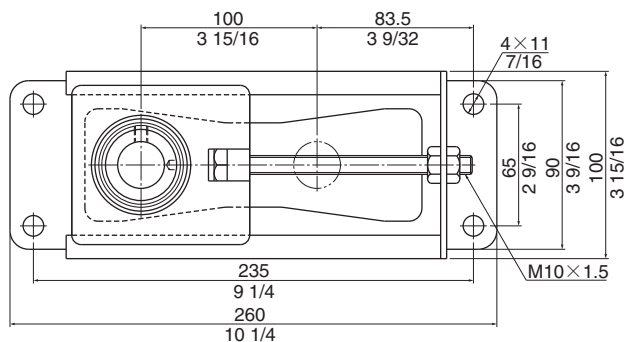
| Shaft<br>dia.                       | Unit number <sup>1)</sup> | Nominal dimensions |                                 |          |                       |          | Bearing number    | Housing <sup>1)</sup><br>number | Mass<br>(approx.) |
|-------------------------------------|---------------------------|--------------------|---------------------------------|----------|-----------------------|----------|-------------------|---------------------------------|-------------------|
|                                     |                           | <i>H</i>           | <i>A</i>                        | <i>r</i> | <i>B</i> <sub>1</sub> | <i>S</i> |                   |                                 |                   |
| mm<br>inch                          |                           |                    |                                 |          |                       |          |                   |                                 | kg lb             |
| <b>95</b>                           | <b>UELC319D1W3</b>        | 240                | 72                              | 4        | 122.3                 | 38.9     | <b>UEL319D1W3</b> | <b>C319D1</b>                   | 17                |
| <b>3<sup>5</sup>/<sub>8</sub></b>   | <b>UELC319-310D1W3</b>    |                    |                                 |          |                       |          | UEL319-310D1W3    | C319D1                          |                   |
| <b>3<sup>11</sup>/<sub>16</sub></b> | <b>UELC319-311D1W3</b>    | 9.4488             | 2 <sup>53</sup> / <sub>64</sub> | 0.157    | 4.815                 | 1.531    | UEL319-311D1W3    | C319D1                          | 37                |
| <b>3<sup>3</sup>/<sub>4</sub></b>   | <b>UELC319-312D1W3</b>    |                    |                                 |          |                       |          | UEL319-312D1W3    | C319D1                          |                   |
| <b>100</b>                          | <b>UELC320D1W3</b>        | 260                | 75                              | 4        | 128.6                 | 50       | <b>UEL320D1W3</b> | <b>C320D1</b>                   | 22                |
| <b>3<sup>13</sup>/<sub>16</sub></b> | <b>UELC320-313D1W3</b>    |                    |                                 |          |                       |          | UEL320-313D1W3    | C320D1                          |                   |
| <b>3<sup>7</sup>/<sub>8</sub></b>   | <b>UELC320-314D1W3</b>    | 10.2362            | 2 <sup>61</sup> / <sub>64</sub> | 0.157    | 5.063                 | 1.969    | UEL320-314D1W3    | C320D1                          | 49                |
| <b>3<sup>15</sup>/<sub>16</sub></b> | <b>UELC320-315D1W3</b>    |                    |                                 |          |                       |          | UEL320-315D1W3    | C320D1                          |                   |
| <b>4</b>                            | <b>UELC320-400D1W3</b>    |                    |                                 |          |                       |          | UEL320-400D1W3    | C320D1                          |                   |
| <b>105</b>                          | <b>UELC321D1W3</b>        | 260                | 75                              | 4        | 139.7                 | 48.4     | <b>UEL321D1W3</b> | <b>C321D1</b>                   | 21                |
| <b>110</b>                          | <b>UELC322D1W3</b>        | 300                | 80                              | 5        | 141.3                 | 49.2     | <b>UEL322D1W3</b> | <b>C322D1</b>                   | 31                |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

Note: Please refer to page 36 for size of grease fitting.



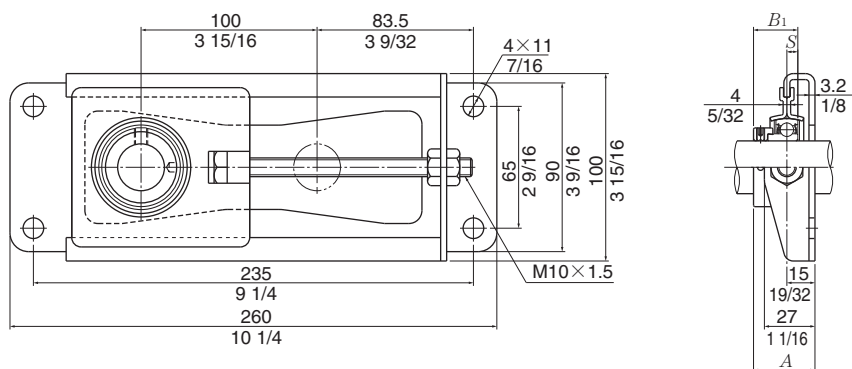
Mini stretcher units  
Eccentric locking collar type



AELPT type

| Shaft<br>dia.<br><br>mm<br>inch  | Unit number       | Nominal dimensions |                        |           | Bolt<br>size<br><br>mm<br>inch | Max. load <sup>1)</sup><br>recommended |     | Bearing number | Mass<br>(approx.)<br><br>kg lb |
|----------------------------------|-------------------|--------------------|------------------------|-----------|--------------------------------|----------------------------------------|-----|----------------|--------------------------------|
|                                  |                   | mm<br>A            | inch<br>B <sub>1</sub> | inch<br>S |                                | N                                      | lbf |                |                                |
| 12<br>1/2                        | AELPT201-10W3     | 37.1               | 28.6                   | 6.5       | M10                            | 3 500                                  |     | AEL201W3       | 1.1                            |
|                                  | AELPT201-008-10W3 | 1 29/64            | 1.126                  | 0.256     | 3/8                            | 770                                    |     | AEL201-008W3   | 2.4                            |
| 15<br>9/16<br>5/8                | AELPT202-10W3     | 37.1               | 28.6                   | 6.5       | M10                            | 3 500                                  |     | AEL202W3       | 1.1                            |
|                                  | AELPT202-009-10W3 | 1 29/64            | 1.126                  | 0.256     | 3/8                            | 770                                    |     | AEL202-009W3   | 2.4                            |
|                                  | AELPT202-010-10W3 |                    |                        |           |                                |                                        |     | AEL202-010W3   |                                |
| 17<br>11/16                      | AELPT203-10W3     | 37.1               | 28.6                   | 6.5       | M10                            | 3 500                                  |     | AEL203W3       | 1.1                            |
|                                  | AELPT203-011-10W3 | 1 29/64            | 1.126                  | 0.256     | 3/8                            | 770                                    |     | AEL203-011W3   | 2.4                            |
| 20<br>3/4                        | AELPT204-10W3     | 38.5               | 31                     | 7.5       | M10                            | 3 500                                  |     | AEL204W3       | 1.1                            |
|                                  | AELPT204-012-10W3 | 1 33/64            | 1.220                  | 0.295     | 3/8                            | 770                                    |     | AEL204-012W3   | 2.4                            |
| 25<br>13/16<br>7/8<br>15/16<br>1 | AELPT205-10W3     | 38.5               | 31                     | 7.5       | M10                            | 3 500                                  |     | AEL205W3       | 1.2                            |
|                                  | AELPT205-013-10W3 |                    |                        |           |                                |                                        |     | AEL205-013W3   |                                |
|                                  | AELPT205-014-10W3 | 1 33/64            | 1.220                  | 0.295     | 3/8                            | 770                                    |     | AEL205-014W3   | 2.7                            |
|                                  | AELPT205-015-10W3 |                    |                        |           |                                |                                        |     | AEL205-015W3   |                                |
|                                  | AELPT205-100-10W3 |                    |                        |           |                                |                                        |     | AEL205-100W3   |                                |

Remarks: 1) The Stretcher Unit is designed to only take a horizontal radial load, in line with the adjustment direction. Axial loads or vertical radial loads can deform or break the housing.



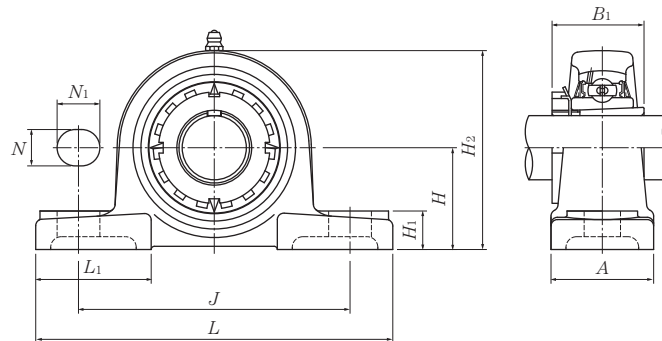
JELPT type

| Shaft<br>dia. | Unit number       | Nominal dimensions |                |       | Bolt<br>size | Max. load <sup>1)</sup><br>recommended |              | Bearing number | Mass<br>(approx.) |
|---------------|-------------------|--------------------|----------------|-------|--------------|----------------------------------------|--------------|----------------|-------------------|
|               |                   | mm                 | inch           |       |              | N                                      | lbf          |                |                   |
| mm            |                   | A                  | B <sub>1</sub> | S     | mm           |                                        |              |                | kg lb             |
| inch          |                   |                    |                |       | inch         |                                        |              |                |                   |
| 12            | JELPT201-10W3     | 37.1               | 28.6           | 6.5   | M10          | 3 500                                  | JEL201W3     | 1.1            |                   |
| 1/2           | JELPT201-008-10W3 | 1 29/64            | 1.126          | 0.256 | 3/8          | 770                                    | JEL201-008W3 | 2.4            |                   |
| 15            | JELPT202-10W3     | 37.1               | 28.6           | 6.5   | M10          | 3 500                                  | JEL202W3     | 1.1            |                   |
| 9/16          | JELPT202-009-10W3 | 1 29/64            | 1.126          | 0.256 | 3/8          | 770                                    | JEL202-009W3 | 2.4            |                   |
| 5/8           | JELPT202-010-10W3 |                    |                |       |              |                                        | JEL202-010W3 |                |                   |
| 17            | JELPT203-10W3     | 37.1               | 28.6           | 6.5   | M10          | 3 500                                  | JEL203W3     | 1.1            |                   |
| 11/16         | JELPT203-011-10W3 | 1 29/64            | 1.126          | 0.256 | 3/8          | 770                                    | JEL203-011W3 | 2.4            |                   |
| 20            | JELPT204-10W3     | 38.5               | 31             | 7.5   | M10          | 3 500                                  | JEL204W3     | 1.1            |                   |
| 3/4           | JELPT204-012-10W3 | 1 33/64            | 1.220          | 0.295 | 3/8          | 770                                    | JEL204-012W3 | 2.4            |                   |
| 25            | JELPT205-10W3     | 38.5               | 31             | 7.5   | M10          | 3 500                                  | JEL205W3     | 1.1            |                   |
| 13/16         | JELPT205-013-10W3 |                    |                |       |              |                                        | JEL205-013W3 |                |                   |
| 7/8           | JELPT205-014-10W3 | 1 33/64            | 1.220          | 0.295 | 3/8          | 770                                    | JEL205-014W3 | 2.4            |                   |
| 15/16         | JELPT205-015-10W3 |                    |                |       |              |                                        | JEL205-015W3 |                |                   |
| 1             | JELPT205-100-10W3 |                    |                |       |              |                                        | JEL205-100W3 |                |                   |

Remarks: 1) The Stretcher Unit is designed to only take a horizontal radial load, in line with the adjustment direction. Axial loads or vertical radial loads can deform or break the housing.



# Pillow blocks cast housing Adapter type



| Shaft<br>dia.                                             | Unit number <sup>1) 2) 3)</sup>                                                                        | Nominal dimensions |                |                |             |             |                       |                       |                       |                       |                       | Bolt<br>size | Bearing number <sup>2) 3)</sup>                                        |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------|----------------|----------------|-------------|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------|------------------------------------------------------------------------|
|                                                           |                                                                                                        | mm                 |                |                |             |             | inch                  |                       |                       |                       |                       |              |                                                                        |
|                                                           |                                                                                                        | <i>H</i>           | <i>L</i>       | <i>J</i>       | <i>A</i>    | <i>N</i>    | <i>N</i> <sub>1</sub> | <i>H</i> <sub>1</sub> | <i>H</i> <sub>2</sub> | <i>B</i> <sub>1</sub> | <i>L</i> <sub>1</sub> |              |                                                                        |
| <b>20</b><br><b>¾</b>                                     | <b>UKP205D1;H2305X</b><br><b>UKP205D1;HE2305</b>                                                       | 36.5<br>1 7/16     | 140<br>5 ½     | 105<br>4 ⅛     | 38<br>1 ½   | 13<br>½     | 16<br>5/8             | 15<br>19/32           | 71<br>2 25/32         | 35<br>1.378           | 42<br>1 21/32         | M10<br>3/8   | UK205D1;H2305X<br>UK205D1;HE2305                                       |
| <b>25</b><br><b>7/8</b><br><b>1</b>                       | <b>UKP206D1;H2306X</b><br><b>UKP206D1;HS2306</b><br><b>UKP206D1;HE2306X</b>                            | 42.9<br>1 11/16    | 165<br>6 ½     | 121<br>4 ¾     | 48<br>1 7/8 | 17<br>21/32 | 20<br>25/32           | 17<br>21/32           | 83<br>3 9/32          | 38<br>1.496           | 54<br>2 1/8           | M14<br>½     | UK206D1;H2306X<br>UK206D1;HS2306<br>UK206D1;HE2306X                    |
| <b>30</b><br><b>1 ⅛</b>                                   | <b>UKP207D1;H2307X</b><br><b>UKP207D1;HS2307</b>                                                       | 47.6<br>1 7/8      | 167<br>6 9/16  | 127<br>5       | 48<br>1 7/8 | 17<br>21/32 | 20<br>25/32           | 18<br>23/32           | 93<br>3 21/32         | 43<br>1.693           | 54<br>2 1/8           | M14<br>½     | UK207D1;H2307X<br>UK207D1;HS2307                                       |
| <b>35</b><br><b>1 ¼</b><br><b>1 ⅜</b>                     | <b>UKP208D1;H2308X</b><br><b>UKP208D1;HE2308X</b><br><b>UKP208D1;HS2308X</b>                           | 49.2<br>1 15/16    | 184<br>7 ¼     | 137<br>5 13/32 | 54<br>2 1/8 | 17<br>21/32 | 20<br>25/32           | 18<br>23/32           | 98<br>3 27/32         | 46<br>1.811           | 52<br>2 1/16          | M14<br>½     | UK208D1;H2308X<br>UK208D1;HE2308X<br>UK208D1;HS2308X                   |
| <b>40</b><br><b>1 7/16</b><br><b>1 ½</b><br><b>1 5/8</b>  | <b>UKP209D1;H2309X</b><br><b>UKP209D1;HA2309</b><br><b>UKP209D1;HE2309X</b><br><b>UKP209D1;HS2309X</b> | 54<br>2 1/8        | 190<br>7 15/32 | 146<br>5 ¾     | 54<br>2 1/8 | 17<br>21/32 | 20<br>25/32           | 20<br>25/32           | 106<br>4 3/16         | 50<br>1.969           | 60<br>2 3/8           | M14<br>½     | UK209D1;H2309X<br>UK209D1;HA2309<br>UK209D1;HE2309X<br>UK209D1;HS2309X |
| <b>45</b><br><b>1 5/8</b><br><b>1 11/16</b><br><b>1 ¾</b> | <b>UKP210D1;H2310X</b><br><b>UKP210D1;HS2310</b><br><b>UKP210D1;HA2310</b><br><b>UKP210D1;HE2310X</b>  | 57.2<br>2 ¼        | 206<br>8 1/8   | 159<br>6 ¼     | 60<br>2 3/8 | 20<br>25/32 | 23<br>29/32           | 21<br>13/16           | 114<br>4 ½            | 55<br>2.165           | 65<br>2 9/16          | M16<br>5/8   | UK210D1;H2310X<br>UK210D1;HS2310<br>UK210D1;HA2310<br>UK210D1;HE2310X  |
| <b>50</b><br><b>1 7/8</b><br><b>1 15/16</b><br><b>2</b>   | <b>UKP211D1;H2311X</b><br><b>UKP211D1;HS2311</b><br><b>UKP211D1;HA2311</b><br><b>UKP211D1;HE2311XY</b> | 63.5<br>2 ½        | 219<br>8 5/8   | 171<br>6 23/32 | 60<br>2 3/8 | 20<br>25/32 | 23<br>29/32           | 23<br>29/32           | 126<br>4 31/32        | 59<br>2.323           | 65<br>2 9/16          | M16<br>5/8   | UK211D1;H2311X<br>UK211D1;HS2311<br>UK211D1;HA2311<br>UK211D1;HE2311XY |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

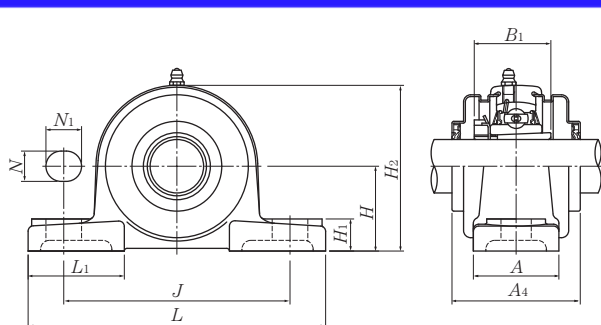
2) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

In this case the lock washer with the straight inner prong should be used.

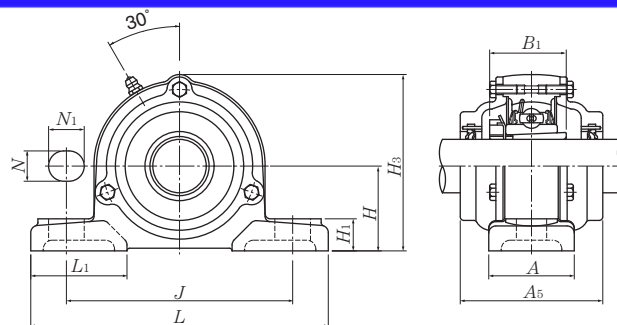
3) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.

To distinguish it, a suffix "Y" is added.

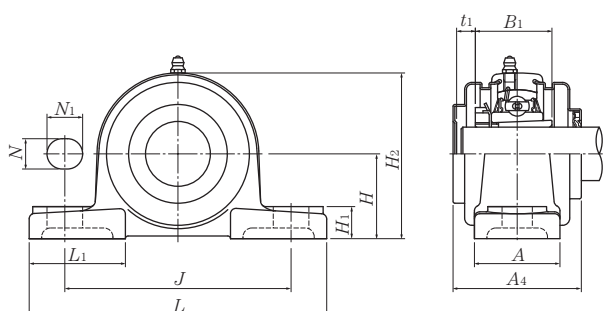
Note: Please refer to page 36 for size of grease fitting.



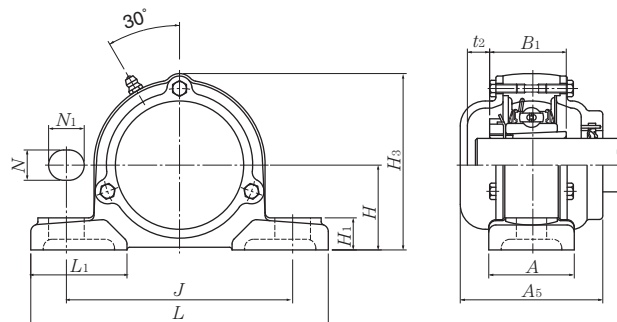
Press steel dust cover type (Open end)  
S-UKP...D1



Cast dust cover type (Open end)  
C-UKP...D1



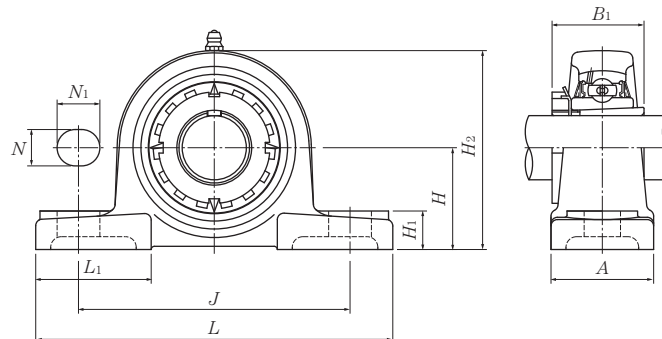
Press steel dust cover type (Close end)  
SM-UKP...D1



Cast dust cover type (Close end)  
CM-UKP...D1

| Housing <sup>1)</sup><br>number | Unit number <sup>1) 2) 3)</sup><br>pressed steel dust cover type | Unit number <sup>1) 2) 3)</sup><br>cast dust cover type | Nominal dimensions |                 |                  |                  |                  | Mass<br>(approx.) |       |       |
|---------------------------------|------------------------------------------------------------------|---------------------------------------------------------|--------------------|-----------------|------------------|------------------|------------------|-------------------|-------|-------|
|                                 |                                                                  |                                                         | mm                 |                 | inch             |                  |                  | kg                |       | lb    |
|                                 |                                                                  |                                                         | t <sub>1</sub>     | t <sub>2</sub>  | A <sub>4</sub>   | H <sub>3</sub>   | A <sub>5</sub>   | UKP               | S(SM) | C(CM) |
| P205D1                          | S(SM)-UKP205D1;H2305X                                            | C(CM)-UKP205D1;H2305X                                   | 7                  | 11              | 57               | 76               | 70               | 0.8               | 0.9   | 1.2   |
| P205D1                          | S(SM)-UKP205ED1;HE2305                                           | C(CM)-UKP205ED1;HE2305                                  | $\frac{9}{32}$     | $\frac{7}{16}$  | $2\frac{1}{4}$   | 3                | $2\frac{3}{4}$   | 1.8               | 2.0   | 2.7   |
| P206D1                          | S(SM)-UKP206D1;H2306X                                            | C(CM)-UKP206D1;H2306X                                   | 8                  | 12              | 62               | 88               | 75               | 1.4               | 1.5   | 1.8   |
| P206D1                          | S(SM)-UKP206SD1;HS2306                                           | C(CM)-UKP206SD1;HS2306                                  | $\frac{5}{16}$     | $\frac{15}{32}$ | $2\frac{7}{16}$  | $3\frac{15}{32}$ | $2\frac{15}{16}$ | 3.1               | 3.3   | 4.0   |
| P206D1                          | S(SM)-UKP206ED1;HE2306X                                          | C(CM)-UKP206ED1;HE2306X                                 |                    |                 |                  |                  |                  |                   |       |       |
| P207D1                          | S(SM)-UKP207D1;H2307X                                            | C(CM)-UKP207D1;H2307X                                   | 10                 | 12              | 72               | 99               | 80               | 1.7               | 1.8   | 2.1   |
| P207D1                          | S(SM)-UKP207SD1;HS2307                                           | C(CM)-UKP207SD1;HS2307                                  | $\frac{25}{64}$    | $\frac{15}{32}$ | $2\frac{27}{32}$ | $3\frac{29}{32}$ | $3\frac{5}{32}$  | 3.7               | 4.0   | 4.6   |
| P208D1                          | S(SM)-UKP208D1;H2308X                                            | C(CM)-UKP208D1;H2308X                                   | 13                 | 14              | 82               | 105              | 90               | 2.0               | 2.2   | 2.8   |
| P208D1                          | S(SM)-UKP208ED1;HE2308X                                          | C(CM)-UKP208ED1;HE2308X                                 | $\frac{33}{64}$    | $\frac{35}{64}$ | $3\frac{7}{32}$  | $4\frac{1}{8}$   | $3\frac{17}{32}$ | 4.4               | 4.9   | 6.2   |
| P208D1                          | S(SM)-UKP208SD1;HS2308X                                          | C(CM)-UKP208SD1;HS2308X                                 |                    |                 |                  |                  |                  |                   |       |       |
| P209D1                          | S(SM)-UKP209D1;H2309X                                            | C(CM)-UKP209D1;H2309X                                   | 12                 | 16              | 82               | 113              | 95               | 2.3               | 2.5   | 3.3   |
| P209D1                          | S(SM)-UKP209AD1;HA2309                                           | C(CM)-UKP209AD1;HA2309                                  |                    |                 |                  |                  |                  |                   |       |       |
| P209D1                          | S(SM)-UKP209ED1;HE2309X                                          | C(CM)-UKP209ED1;HE2309X                                 | $\frac{15}{32}$    | $\frac{5}{8}$   | $3\frac{7}{32}$  | $4\frac{7}{16}$  | $3\frac{3}{4}$   | 5.1               | 5.5   | 7.3   |
| P209D1                          | S(SM)-UKP209SD1;HS2309X                                          | C(CM)-UKP209SD1;HS2309X                                 |                    |                 |                  |                  |                  |                   |       |       |
| P210D1                          | S(SM)-UKP210D1;H2310X                                            | C(CM)-UKP210D1;H2310X                                   | 13                 | 17              | 87               | 119              | 100              | 2.9               | 3.0   | 3.9   |
| P210D1                          | S(SM)-UKP210SD1;HS2310                                           | C(CM)-UKP210SD1;HS2310                                  |                    |                 |                  |                  |                  |                   |       |       |
| P210D1                          | S(SM)-UKP210AD1;HA2310                                           | C(CM)-UKP210AD1;HA2310                                  | $\frac{33}{64}$    | $2\frac{1}{32}$ | $3\frac{7}{16}$  | $4\frac{11}{16}$ | $3\frac{15}{16}$ | 6.4               | 6.6   | 8.6   |
| P210D1                          | S(SM)-UKP210ED1;HE2310X                                          | C(CM)-UKP210ED1;HE2310X                                 |                    |                 |                  |                  |                  |                   |       |       |
| P211D1                          | S(SM)-UKP211D1;H2311X                                            | C(CM)-UKP211D1;H2311X                                   | 14                 | 15              | 92               | 130              | 100              | 3.6               | 3.7   | 4.8   |
| P211D1                          | S(SM)-UKP211SD1;HS2311                                           | C(CM)-UKP211SD1;HS2311                                  |                    |                 |                  |                  |                  |                   |       |       |
| P211D1                          | S(SM)-UKP211AD1;HA2311                                           | C(CM)-UKP211AD1;HA2311                                  | $\frac{35}{64}$    | $\frac{19}{32}$ | $3\frac{5}{8}$   | $5\frac{1}{8}$   | $3\frac{15}{16}$ | 7.9               | 8.2   | 11    |
| P211D1                          | S(SM)-UKP211ED1;HE2311XY                                         | C(CM)-UKP211ED1;HE2311XY                                |                    |                 |                  |                  |                  |                   |       |       |

# Pillow blocks cast housing Adapter type



| Shaft<br>dia.                                                                                                             | Unit number <sup>1) 2) 3)</sup>                                                                        | Nominal dimensions                    |                                         |                                        |                                       |                                       |                                       |                                      |                                        |                       |                                       | Bolt<br>size                         | Bearing number <sup>2) 3)</sup>                                        |
|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|----------------------------------------|-----------------------|---------------------------------------|--------------------------------------|------------------------------------------------------------------------|
|                                                                                                                           |                                                                                                        | mm                                    |                                         |                                        |                                       |                                       | inch                                  |                                      |                                        |                       |                                       |                                      |                                                                        |
|                                                                                                                           |                                                                                                        | <i>H</i>                              | <i>L</i>                                | <i>J</i>                               | <i>A</i>                              | <i>N</i>                              | <i>N</i> <sub>1</sub>                 | <i>H</i> <sub>1</sub>                | <i>H</i> <sub>2</sub>                  | <i>B</i> <sub>1</sub> | <i>L</i> <sub>1</sub>                 | mm<br>inch                           |                                                                        |
| <b>55</b><br><b>2<sup>1</sup>/<sub>8</sub></b>                                                                            | <b>UKP212D1;H2312X</b><br><b>UKP212D1;HS2312</b>                                                       | 69.8<br>2 <sup>3</sup> / <sub>4</sub> | 241<br>9 <sup>1</sup> / <sub>2</sub>    | 184<br>7 <sup>1</sup> / <sub>4</sub>   | 70<br>2 <sup>3</sup> / <sub>4</sub>   | 20<br>25 <sup>3</sup> / <sub>32</sub> | 23<br>29 <sup>3</sup> / <sub>32</sub> | 25<br>3 <sup>1</sup> / <sub>32</sub> | 138<br>5 <sup>7</sup> / <sub>16</sub>  | 62<br>2.441           | 70<br>2 <sup>3</sup> / <sub>4</sub>   | M16<br>5 <sup>8</sup> / <sub>8</sub> | UK212D1;H2312X<br>UK212D1;HS2312                                       |
| <b>60</b><br><b>2<sup>3</sup>/<sub>16</sub></b><br><b>2<sup>1</sup>/<sub>4</sub></b><br><b>2<sup>3</sup>/<sub>8</sub></b> | <b>UKP213D1;H2313X</b><br><b>UKP213D1;HA2313</b><br><b>UKP213D1;HE2313X</b><br><b>UKP213D1;HS2313X</b> | 76.2<br>3                             | 265<br>10 <sup>7</sup> / <sub>16</sub>  | 203<br>8                               | 70<br>2 <sup>3</sup> / <sub>4</sub>   | 25<br>3 <sup>1</sup> / <sub>32</sub>  | 28<br>1 <sup>3</sup> / <sub>32</sub>  | 27<br>1 <sup>1</sup> / <sub>16</sub> | 151<br>5 <sup>15</sup> / <sub>16</sub> | 65<br>2.559           | 77<br>3 <sup>1</sup> / <sub>32</sub>  | M20<br>3 <sup>4</sup> / <sub>4</sub> | UK213D1;H2313X<br>UK213D1;HA2313<br>UK213D1;HE2313X<br>UK213D1;HS2313X |
| <b>65</b><br><b>2<sup>7</sup>/<sub>16</sub></b><br><b>2<sup>1</sup>/<sub>2</sub></b>                                      | <b>UKP215D1;H2315X</b><br><b>UKP215D1;HA2315</b><br><b>UKP215D1;HE2315X</b>                            | 82.6<br>3 <sup>1</sup> / <sub>4</sub> | 275<br>10 <sup>13</sup> / <sub>16</sub> | 217<br>8 <sup>17</sup> / <sub>32</sub> | 74<br>2 <sup>29</sup> / <sub>32</sub> | 25<br>3 <sup>1</sup> / <sub>32</sub>  | 28<br>1 <sup>3</sup> / <sub>32</sub>  | 28<br>1 <sup>3</sup> / <sub>32</sub> | 163<br>6 <sup>13</sup> / <sub>32</sub> | 73<br>2.874           | 80<br>3 <sup>5</sup> / <sub>32</sub>  | M20<br>3 <sup>4</sup> / <sub>4</sub> | UK215D1;H2315X<br>UK215D1;HA2315<br>UK215D1;HE2315X                    |
| <b>70</b><br><b>2<sup>11</sup>/<sub>16</sub></b><br><b>2<sup>3</sup>/<sub>4</sub></b>                                     | <b>UKP216D1;H2316X</b><br><b>UKP216D1;HA2316</b><br><b>UKP216D1;HE2316X</b>                            | 88.9<br>3 <sup>1</sup> / <sub>2</sub> | 292<br>11 <sup>1</sup> / <sub>2</sub>   | 232<br>9 <sup>1</sup> / <sub>8</sub>   | 78<br>3 <sup>1</sup> / <sub>16</sub>  | 25<br>3 <sup>1</sup> / <sub>32</sub>  | 28<br>1 <sup>3</sup> / <sub>32</sub>  | 30<br>1 <sup>3</sup> / <sub>16</sub> | 175<br>6 <sup>7</sup> / <sub>8</sub>   | 78<br>3.071           | 85<br>3 <sup>11</sup> / <sub>32</sub> | M20<br>3 <sup>4</sup> / <sub>4</sub> | UK216D1;H2316X<br>UK216D1;HA2316<br>UK216D1;HE2316X                    |
| <b>75</b><br><b>2<sup>15</sup>/<sub>16</sub></b><br><b>3</b>                                                              | <b>UKP217D1;H2317X</b><br><b>UKP217D1;HA2317X</b><br><b>UKP217D1;HE2317X</b>                           | 95.2<br>3 <sup>3</sup> / <sub>4</sub> | 310<br>12 <sup>7</sup> / <sub>32</sub>  | 247<br>9 <sup>23</sup> / <sub>32</sub> | 83<br>3 <sup>9</sup> / <sub>32</sub>  | 25<br>3 <sup>1</sup> / <sub>32</sub>  | 28<br>1 <sup>3</sup> / <sub>32</sub>  | 32<br>1 <sup>1</sup> / <sub>4</sub>  | 187<br>7 <sup>3</sup> / <sub>8</sub>   | 82<br>3.228           | 85<br>3 <sup>11</sup> / <sub>32</sub> | M20<br>3 <sup>4</sup> / <sub>4</sub> | UK217D1;H2317X<br>UK217D1;HA2317X<br>UK217D1;HE2317X                   |
| <b>80</b><br><b>3<sup>3</sup>/<sub>16</sub></b>                                                                           | <b>UKP218D1;H2318X</b><br><b>UKP218D1;HA2318X</b>                                                      | 101.6<br>4                            | 327<br>12 <sup>7</sup> / <sub>8</sub>   | 262<br>10 <sup>5</sup> / <sub>16</sub> | 88<br>3 <sup>15</sup> / <sub>32</sub> | 27<br>1 <sup>1</sup> / <sub>16</sub>  | 30<br>1 <sup>3</sup> / <sub>16</sub>  | 33<br>1 <sup>5</sup> / <sub>16</sub> | 200<br>7 <sup>7</sup> / <sub>8</sub>   | 86<br>3.386           | 90<br>3 <sup>17</sup> / <sub>32</sub> | M22<br>7 <sup>8</sup> / <sub>8</sub> | UK218D1;H2318X<br>UK218D1;HA2318X                                      |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

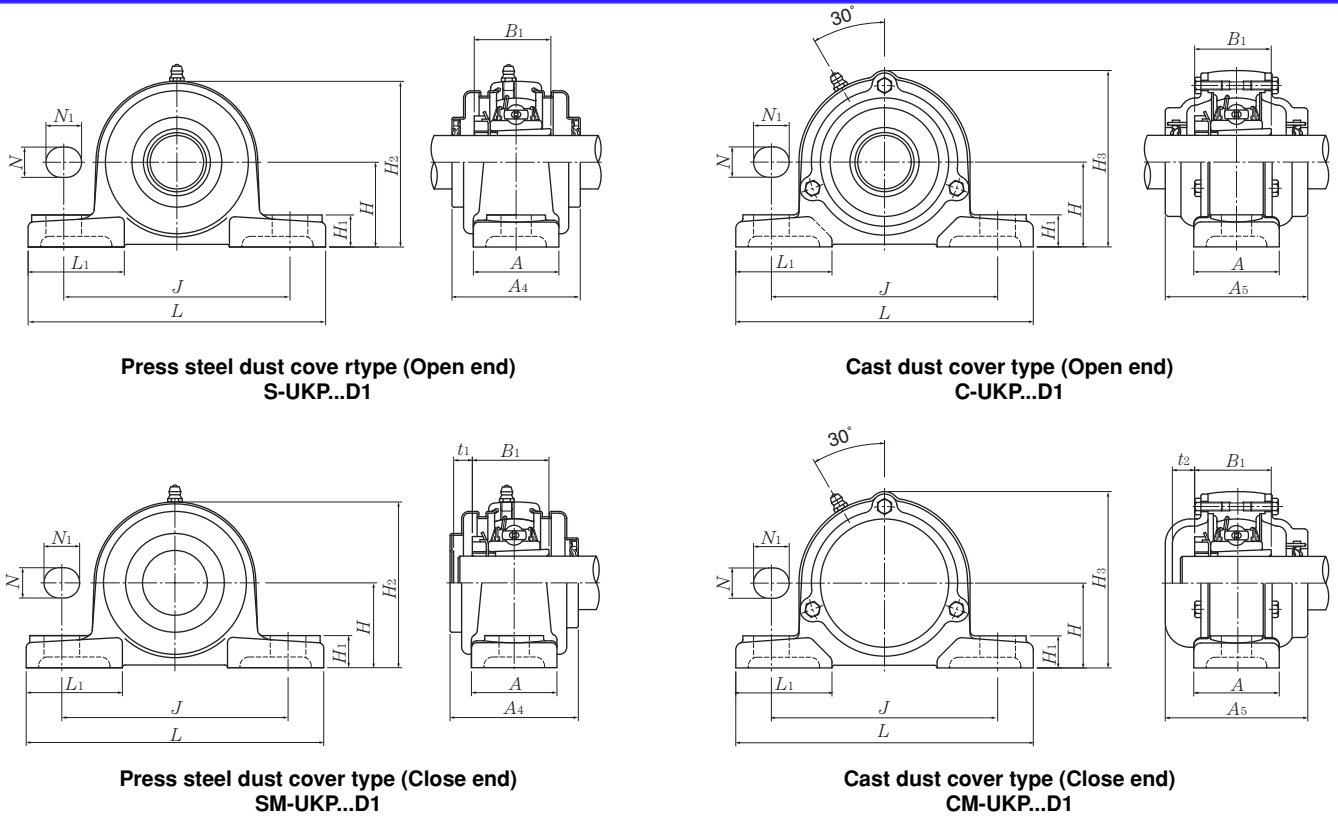
2) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

In this case the lock washer with the straight inner prong should be used.

3) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.

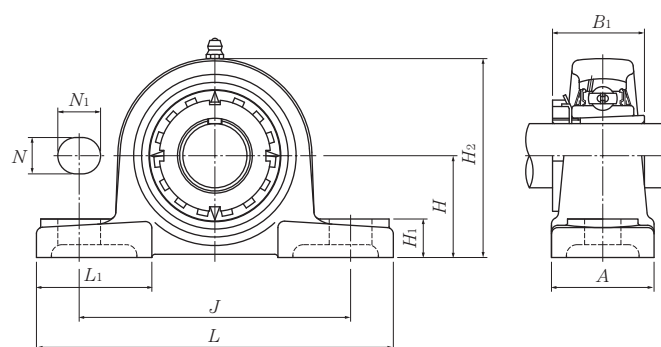
To distinguish it, a suffix "Y" is added.

Note: Please refer to page 36 for size of grease fitting.



| Housing <sup>1)</sup><br>number | Unit number <sup>1) 2) 3)</sup><br>pressed steel dust cover type | Unit number <sup>1) 2) 3)</sup><br>cast dust cover type | Nominal dimensions |                 |                 |                  |                  | Mass<br>(approx.) |       |       |
|---------------------------------|------------------------------------------------------------------|---------------------------------------------------------|--------------------|-----------------|-----------------|------------------|------------------|-------------------|-------|-------|
|                                 |                                                                  |                                                         | mm                 |                 | inch            |                  |                  | kg                |       | lb    |
|                                 |                                                                  |                                                         | t <sub>1</sub>     | t <sub>2</sub>  | A <sub>4</sub>  | H <sub>3</sub>   | A <sub>5</sub>   | UKP               | S(SM) | C(CM) |
| P212D1                          | S(SM)-UKP212D1;H2312X                                            | C(CM)-UKP212D1;H2312X                                   | 16                 | 20              | 102             | 143              | 115              | 4.7               | 5.1   | 6.2   |
| P212D1                          | S(SM)-UKP212SD1;HS2312                                           | C(CM)-UKP212SD1;HS2312                                  | $\frac{5}{8}$      | $\frac{25}{32}$ | $4\frac{1}{32}$ | $5\frac{5}{8}$   | $4\frac{17}{32}$ | 10                | 11    | 14    |
| P213D1                          | S(SM)-UKP213D1;H2313X                                            | C(CM)-UKP213D1;H2313X                                   | 17                 | 21              | 107             | 155              | 120              | 5.7               | 5.9   | 7.6   |
| P213D1                          | S(SM)-UKP213AD1;HA2313                                           | C(CM)-UKP213AD1;HA2313                                  |                    |                 |                 |                  |                  |                   |       |       |
| P213D1                          | S(SM)-UKP213ED1;HE2313X                                          | C(CM)-UKP213ED1;HE2313X                                 | $2\frac{1}{32}$    | $\frac{13}{16}$ | $4\frac{7}{32}$ | $6\frac{3}{32}$  | $4\frac{23}{32}$ | 13                | 13    | 17    |
| P213D1                          | S(SM)-UKP213SD1;HS2313X                                          | C(CM)-UKP213SD1;HS2313X                                 |                    |                 |                 |                  |                  |                   |       |       |
| P215D1                          | —                                                                | C(CM)-UKP215D1;H2315X                                   | —                  | 24              | —               | 168              | 135              | 7.5               | —     | 10    |
| P215D1                          | —                                                                | C(CM)-UKP215AD1;HA2315                                  | —                  | $\frac{15}{16}$ | —               | $6\frac{5}{8}$   | $5\frac{5}{16}$  | 17                | —     | 22    |
| P215D1                          | —                                                                | C(CM)-UKP215ED1;HE2315X                                 |                    |                 |                 |                  |                  |                   |       |       |
| P216D1                          | —                                                                | C(CM)-UKP216D1;H2316X                                   | —                  | 27              | —               | 181              | 145              | 9.2               | —     | 12    |
| P216D1                          | —                                                                | C(CM)-UKP216AD1;HA2316                                  | —                  | $1\frac{1}{16}$ | —               | $7\frac{1}{8}$   | $5\frac{23}{32}$ | 20                | —     | 26    |
| P216D1                          | —                                                                | C(CM)-UKP216ED1;HE2316X                                 |                    |                 |                 |                  |                  |                   |       |       |
| P217D1                          | —                                                                | C(CM)-UKP217D1;H2317X                                   | —                  | 30              | —               | 191              | 155              | 11                | —     | 14    |
| P217D1                          | —                                                                | C(CM)-UKP217AD1;HA2317X                                 | —                  | $1\frac{3}{16}$ | —               | $7\frac{17}{32}$ | $6\frac{3}{32}$  | 24                | —     | 31    |
| P217D1                          | —                                                                | C(CM)-UKP217ED1;HE2317X                                 |                    |                 |                 |                  |                  |                   |       |       |
| P218D1                          | —                                                                | C(CM)-UKP218D1;H2318X                                   | —                  | 35              | —               | 204              | 165              | 13                | —     | 16    |
| P218D1                          | —                                                                | C(CM)-UKP218AD1;HA2318X                                 | —                  | $1\frac{3}{8}$  | —               | $8\frac{1}{32}$  | $6\frac{1}{2}$   | 29                | —     | 35    |

# **Pillow blocks cast housing Adapter type**



| Shaft<br>dia.                   | Unit number <sup>1) 2) 3)</sup>                                            | Nominal dimensions |                 |                |               |              |                |                |                |                |                | Bolt<br>size | Bearing number <sup>2) 3)</sup>                                        |
|---------------------------------|----------------------------------------------------------------------------|--------------------|-----------------|----------------|---------------|--------------|----------------|----------------|----------------|----------------|----------------|--------------|------------------------------------------------------------------------|
| mm<br>inch                      |                                                                            | mm                 |                 |                |               |              | inch           |                |                |                |                | mm<br>inch   |                                                                        |
|                                 |                                                                            | H                  | L               | J              | A             | N            | N <sub>1</sub> | H <sub>1</sub> | H <sub>2</sub> | B <sub>1</sub> | L <sub>1</sub> |              |                                                                        |
| 20<br>¾                         | UKP305D1;H2305X<br>UKP305D1;HE2305                                         | 45<br>1 49/64      | 175<br>6 7/8    | 132<br>5 3/16  | 45<br>1 25/32 | 17<br>2 1/32 | 20<br>2 5/32   | 15<br>1 9/32   | 85<br>3 11/32  | 35<br>1.378    | 54<br>2 1/8    | M14<br>½     | UK305D1;H2305X<br>UK305D1;HE2305                                       |
| 25<br>7/8<br>1                  | UKP306D1;H2306X<br>UKP306D1;HS2306<br>UKP306D1;HE2306X                     | 50<br>1 31/32      | 180<br>7 3/32   | 140<br>5 1/2   | 50<br>1 31/32 | 17<br>2 1/32 | 20<br>2 5/32   | 18<br>2 3/32   | 95<br>3 3/4    | 38<br>1.496    | 54<br>2 1/8    | M14<br>½     | UK306D1;H2306X<br>UK306D1;HS2306<br>UK306D1;HE2306X                    |
| 30<br>1 1/8                     | UKP307D1;H2307X<br>UKP307D1;HS2307                                         | 56<br>2 13/64      | 210<br>8 9/32   | 160<br>6 5/16  | 56<br>2 7/32  | 17<br>2 1/32 | 25<br>3 1/32   | 20<br>2 5/32   | 106<br>4 3/16  | 43<br>1.693    | 60<br>2 3/8    | M14<br>½     | UK307D1;H2307X<br>UK307D1;HS2307                                       |
| 35<br>1 1/4<br>1 3/8            | UKP308D1;H2308X<br>UKP308D1;HE2308X<br>UKP308D1;HS2308X                    | 60<br>2 23/64      | 220<br>8 21/32  | 170<br>6 11/16 | 60<br>2 3/8   | 17<br>2 1/32 | 27<br>1 1/16   | 22<br>7/8      | 116<br>4 9/16  | 46<br>1.811    | 60<br>2 3/8    | M14<br>½     | UK308D1;H2308X<br>UK308D1;HE2308X<br>UK308D1;HS2308X                   |
| 40<br>1 7/16<br>1 1/2<br>1 5/8  | UKP309D1;H2309X<br>UKP309D1;HA2309<br>UKP309D1;HE2309X<br>UKP309D1;HS2309X | 67<br>2 41/64      | 245<br>9 21/32  | 190<br>7 15/32 | 67<br>2 5/8   | 20<br>2 5/32 | 30<br>1 3/16   | 24<br>1 5/16   | 129<br>5 3/32  | 50<br>1.969    | 65<br>2 9/16   | M16<br>5/8   | UK309D1;H2309X<br>UK309D1;HA2309<br>UK309D1;HE2309X<br>UK309D1;HS2309X |
| 45<br>1 5/8<br>1 11/16<br>1 3/4 | UKP310D1;H2310X<br>UKP310D1;HS2310<br>UKP310D1;HA2310<br>UKP310D1;HE2310X  | 75<br>2 61/64      | 275<br>10 13/16 | 212<br>8 11/32 | 75<br>2 15/16 | 20<br>2 5/32 | 35<br>1 3/8    | 27<br>1 1/16   | 143<br>5 5/8   | 55<br>2.165    | 75<br>2 15/16  | M16<br>5/8   | UK310D1;H2310X<br>UK310D1;HS2310<br>UK310D1;HA2310<br>UK310D1;HE2310X  |
| 50<br>1 7/8<br>1 15/16<br>2     | UKP311D1;H2311X<br>UKP311D1;HS2311<br>UKP311D1;HA2311<br>UKP311D1;HE2311XY | 80<br>3 5/32       | 310<br>12 7/32  | 236<br>9 9/32  | 80<br>3 5/32  | 20<br>2 5/32 | 38<br>1 1/2    | 30<br>1 3/16   | 154<br>6 1/16  | 59<br>2.323    | 85<br>3 11/32  | M16<br>5/8   | UK311D1;H2311X<br>UK311D1;HS2311<br>UK311D1;HA2311<br>UK311D1;HE2311XY |
| 55<br>2 1/8                     | UKP312D1;H2312X<br>UKP312D1;HS2312                                         | 85<br>3 11/32      | 330<br>13       | 250<br>9 27/32 | 85<br>3 11/32 | 25<br>3 1/32 | 38<br>1 1/2    | 32<br>1 1/4    | 165<br>6 1/2   | 62<br>2.441    | 95<br>3 3/4    | M20<br>3/4   | UK312D1;H2312X<br>UK312D1;HS2312                                       |
| 60<br>2 3/16<br>2 1/4<br>2 3/8  | UKP313D1;H2313X<br>UKP313D1;HA2313<br>UKP313D1;HE2313X<br>UKP313D1;HS2313X | 90<br>3 35/64      | 340<br>13 3/8   | 260<br>10 1/4  | 90<br>3 17/32 | 25<br>3 1/32 | 38<br>1 1/2    | 33<br>1 5/16   | 176<br>6 15/16 | 65<br>2.559    | 105<br>4 1/8   | M20<br>3/4   | UK313D1;H2313X<br>UK313D1;HA2313<br>UK313D1;HE2313X<br>UK313D1;HS2313X |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

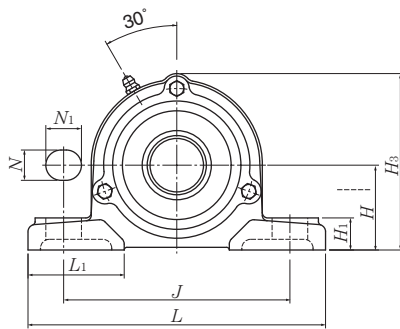
2) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

In this case the lock washer with the straight inner prong should be used.

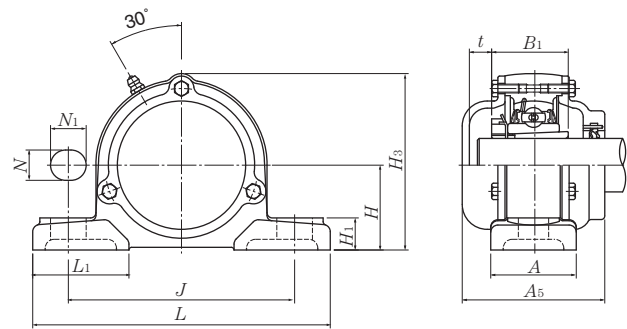
3) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.

To distinguish it, a suffix "Y" is added.

Note: Please refer to page 36 for size of grease fitting.



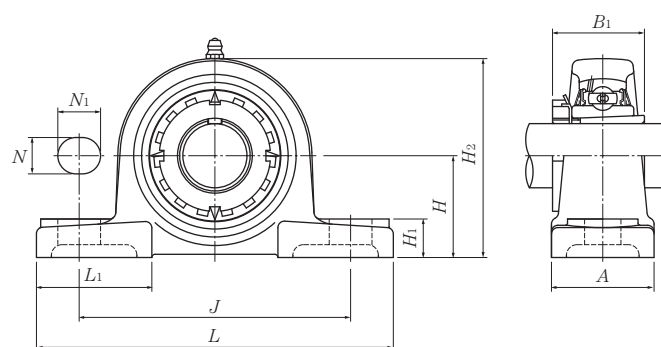
Cast dust cover type (Open end)  
C-UKP...D1



Cast dust cover type (Close end)  
CM-UKP...D1

| Housing <sup>1)</sup><br>number | Unit number <sup>1) 2) 3)</sup><br>cast dust cover type | Nominal<br>dimensions |                  |                  | Mass<br>(approx.) |       |
|---------------------------------|---------------------------------------------------------|-----------------------|------------------|------------------|-------------------|-------|
|                                 |                                                         | mm                    |                  | inch             | kg                | lb    |
|                                 |                                                         | t                     | H <sub>3</sub>   | A <sub>5</sub>   | UKP               | C(CM) |
| P305D1                          | C(CM)-UKP305D1;H2305X                                   | 14                    | 91               | 80               | 1.4               | 1.9   |
| P305D1                          | C(CM)-UKP305ED1;HE2305                                  | $\frac{35}{64}$       | $3\frac{19}{32}$ | $3\frac{5}{32}$  | 3.1               | 4.2   |
| P306D1                          | C(CM)-UKP306D1;H2306X                                   | 15                    | 105              | 85               | 1.8               | 2.6   |
| P306D1                          | C(CM)-UKP306SD1;HS2306                                  | $\frac{19}{32}$       | $4\frac{1}{8}$   | $3\frac{11}{32}$ | 4.0               | 5.7   |
| P306D1                          | C(CM)-UKP306ED1;HE2306X                                 |                       |                  |                  |                   |       |
| P307D1                          | C(CM)-UKP307D1;H2307X                                   | 17                    | 115              | 95               | 2.6               | 3.3   |
| P307D1                          | C(CM)-UKP307SD1;HS2307                                  | $\frac{21}{32}$       | $4\frac{17}{32}$ | $3\frac{3}{4}$   | 5.7               | 7.3   |
| P308D1                          | C(CM)-UKP308D1;H2308X                                   | 19                    | 125              | 105              | 3.1               | 4.2   |
| P308D1                          | C(CM)-UKP308ED1;HE2308X                                 | $\frac{3}{4}$         | $4\frac{29}{32}$ | $4\frac{1}{8}$   | 6.8               | 9.3   |
| P308D1                          | C(CM)-UKP308SD1;HS2308X                                 |                       |                  |                  |                   |       |
| P309D1                          | C(CM)-UKP309D1;H2309X                                   | 19                    | 140              | 110              | 4.1               | 5.6   |
| P309D1                          | C(CM)-UKP309AD1;HA2309                                  |                       |                  |                  |                   |       |
| P309D1                          | C(CM)-UKP309ED1;HE2309X                                 | $\frac{3}{4}$         | $5\frac{1}{2}$   | $4\frac{11}{32}$ | 9.0               | 12    |
| P309D1                          | C(CM)-UKP309SD1;HS2309X                                 |                       |                  |                  |                   |       |
| P310D1                          | C(CM)-UKP310D1;H2310X                                   | 21                    | 156              | 120              | 5.6               | 7.2   |
| P310D1                          | C(CM)-UKP310SD1;HS2310                                  |                       |                  |                  |                   |       |
| P310D1                          | C(CM)-UKP310AD1;HA2310                                  | $\frac{13}{16}$       | $6\frac{5}{32}$  | $4\frac{23}{32}$ | 12                | 16    |
| P310D1                          | C(CM)-UKP310ED1;HE2310X                                 |                       |                  |                  |                   |       |
| P311D1                          | C(CM)-UKP311D1;H2311X                                   | 22                    | 166              | 125              | 7.3               | 9.0   |
| P311D1                          | C(CM)-UKP311SD1;HS2311                                  |                       |                  |                  |                   |       |
| P311D1                          | C(CM)-UKP311AD1;HA2311                                  | $\frac{7}{8}$         | $6\frac{17}{32}$ | $4\frac{29}{32}$ | 16                | 20    |
| P311D1                          | C(CM)-UKP311ED1;HE2311XY                                |                       |                  |                  |                   |       |
| P312D1                          | C(CM)-UKP312D1;H2312X                                   | 25                    | 179              | 135              | 9.3               | 11    |
| P312D1                          | C(CM)-UKP312SD1;HS2312                                  | $\frac{63}{64}$       | $7\frac{1}{16}$  | $5\frac{5}{16}$  | 21                | 24    |
| P313D1                          | C(CM)-UKP313D1;H2313X                                   | 25                    | 190              | 140              | 10                | 12    |
| P313D1                          | C(CM)-UKP313AD1;HA2313                                  |                       |                  |                  |                   |       |
| P313D1                          | C(CM)-UKP313ED1;HE2313X                                 | $\frac{63}{64}$       | $7\frac{15}{32}$ | $5\frac{1}{2}$   | 22                | 26    |
| P313D1                          | C(CM)-UKP313SD1;HS2313X                                 |                       |                  |                  |                   |       |

# **Pillow blocks cast housing** **Adapter type**



| Shaft<br>dia.                                                          | Unit number <sup>1) 2) 3)</sup>                         | Nominal dimensions                     |                                         |                                         |                                        |                                       |                                       |                                       |                                         |                       |                                        | Bolt<br>size                         | Bearing number <sup>2) 3)</sup>                      |
|------------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------|-----------------------------------------|-----------------------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------------|-----------------------|----------------------------------------|--------------------------------------|------------------------------------------------------|
|                                                                        |                                                         | mm                                     |                                         |                                         |                                        |                                       | inch                                  |                                       |                                         |                       |                                        |                                      |                                                      |
|                                                                        |                                                         | <i>H</i>                               | <i>L</i>                                | <i>J</i>                                | <i>A</i>                               | <i>N</i>                              | <i>N</i> <sub>1</sub>                 | <i>H</i> <sub>1</sub>                 | <i>H</i> <sub>2</sub>                   | <i>B</i> <sub>1</sub> | <i>L</i> <sub>1</sub>                  |                                      |                                                      |
| 65<br>2 <sup>7</sup> / <sub>16</sub><br>2 <sup>1</sup> / <sub>2</sub>  | UKP315D1;H2315X<br>UKP315D1;HA2315<br>UKP315D1;HE2315X  | 100<br>3 <sup>15</sup> / <sub>16</sub> | 380<br>14 <sup>31</sup> / <sub>32</sub> | 290<br>11 <sup>13</sup> / <sub>32</sub> | 100<br>3 <sup>15</sup> / <sub>16</sub> | 27<br>1 <sup>1</sup> / <sub>16</sub>  | 40<br>1 <sup>9</sup> / <sub>16</sub>  | 35<br>1 <sup>3</sup> / <sub>8</sub>   | 198<br>7 <sup>25</sup> / <sub>32</sub>  | 73<br>2.874           | 110<br>4 <sup>11</sup> / <sub>32</sub> | M22<br>7/8                           | UK315D1;H2315X<br>UK315D1;HA2315<br>UK315D1;HE2315X  |
| 70<br>2 <sup>11</sup> / <sub>16</sub><br>2 <sup>3</sup> / <sub>4</sub> | UKP316D1;H2316X<br>UKP316D1;HA2316<br>UKP316D1;HE2316X  | 106<br>4 <sup>11</sup> / <sub>64</sub> | 400<br>15 <sup>3</sup> / <sub>4</sub>   | 300<br>11 <sup>13</sup> / <sub>16</sub> | 110<br>4 <sup>11</sup> / <sub>32</sub> | 27<br>1 <sup>1</sup> / <sub>16</sub>  | 40<br>1 <sup>9</sup> / <sub>16</sub>  | 40<br>1 <sup>9</sup> / <sub>16</sub>  | 210<br>8 <sup>9</sup> / <sub>32</sub>   | 78<br>3.071           | 110<br>4 <sup>11</sup> / <sub>32</sub> | M22<br>7/8                           | UK316D1;H2316X<br>UK316D1;HA2316<br>UK316D1;HE2316X  |
| 75<br>2 <sup>15</sup> / <sub>16</sub><br>3                             | UKP317D1;H2317X<br>UKP317D1;HA2317X<br>UKP317D1;HE2317X | 112<br>4 <sup>13</sup> / <sub>32</sub> | 420<br>16 <sup>17</sup> / <sub>32</sub> | 320<br>12 <sup>19</sup> / <sub>32</sub> | 110<br>4 <sup>11</sup> / <sub>32</sub> | 33<br>1 <sup>5</sup> / <sub>16</sub>  | 45<br>1 <sup>25</sup> / <sub>32</sub> | 40<br>1 <sup>9</sup> / <sub>16</sub>  | 220<br>8 <sup>21</sup> / <sub>32</sub>  | 82<br>3.228           | 120<br>4 <sup>23</sup> / <sub>32</sub> | M27<br>1                             | UK317D1;H2317X<br>UK317D1;HA2317X<br>UK317D1;HE2317X |
| 80<br>3 <sup>3</sup> / <sub>16</sub>                                   | UKP318D1;H2318X<br>UKP318D1;HA2318X                     | 118<br>4 <sup>41</sup> / <sub>64</sub> | 430<br>16 <sup>15</sup> / <sub>16</sub> | 330<br>13                               | 110<br>4 <sup>11</sup> / <sub>32</sub> | 33<br>1 <sup>5</sup> / <sub>16</sub>  | 45<br>1 <sup>25</sup> / <sub>32</sub> | 45<br>1 <sup>25</sup> / <sub>32</sub> | 235<br>9 <sup>1</sup> / <sub>4</sub>    | 86<br>3.386           | 120<br>4 <sup>23</sup> / <sub>32</sub> | M27<br>1                             | UK318D1;H2318X<br>UK318D1;HA2318X                    |
| 85<br>3 <sup>1</sup> / <sub>4</sub>                                    | UKP319D1;H2319X<br>UKP319D1;HE2319X                     | 125<br>4 <sup>59</sup> / <sub>64</sub> | 470<br>18 <sup>1</sup> / <sub>2</sub>   | 360<br>14 <sup>3</sup> / <sub>16</sub>  | 120<br>4 <sup>23</sup> / <sub>32</sub> | 36<br>1 <sup>13</sup> / <sub>32</sub> | 50<br>1 <sup>31</sup> / <sub>32</sub> | 45<br>1 <sup>25</sup> / <sub>32</sub> | 250<br>9 <sup>27</sup> / <sub>32</sub>  | 90<br>3.543           | 125<br>4 <sup>29</sup> / <sub>32</sub> | M30<br>1 <sup>1</sup> / <sub>8</sub> | UK319D1;H2319X<br>UK319D1;HE2319X                    |
| 90<br>3 <sup>7</sup> / <sub>16</sub><br>3 <sup>1</sup> / <sub>2</sub>  | UKP320D1;H2320X<br>UKP320D1;HA2320<br>UKP320D1;HE2320X  | 140<br>5 <sup>33</sup> / <sub>64</sub> | 490<br>19 <sup>9</sup> / <sub>32</sub>  | 380<br>14 <sup>31</sup> / <sub>32</sub> | 120<br>4 <sup>23</sup> / <sub>32</sub> | 36<br>1 <sup>13</sup> / <sub>32</sub> | 50<br>1 <sup>31</sup> / <sub>32</sub> | 50<br>1 <sup>31</sup> / <sub>32</sub> | 275<br>10 <sup>13</sup> / <sub>16</sub> | 97<br>3.819           | 130<br>5 <sup>1</sup> / <sub>8</sub>   | M30<br>1 <sup>1</sup> / <sub>8</sub> | UK320D1;H2320X<br>UK320D1;HA2320<br>UK320D1;HE2320X  |
| 100                                                                    | UKP322D1;H2322X                                         | 150                                    | 520                                     | 400                                     | 140                                    | 40                                    | 55                                    | 55                                    | 300                                     | 105                   | 135                                    | M33                                  | UK322D1;H2322X                                       |
| 110                                                                    | UKP324D1;H2324X                                         | 160                                    | 570                                     | 450                                     | 140                                    | 40                                    | 55                                    | 65                                    | 320                                     | 112                   | 140                                    | M33                                  | UK324D1;H2324X                                       |
| 115                                                                    | UKP326D1;H2326                                          | 180                                    | 600                                     | 480                                     | 140                                    | 40                                    | 55                                    | 75                                    | 355                                     | 121                   | 140                                    | M33                                  | UK326D1;H2326                                        |
| 125                                                                    | UKP328D1;H2328                                          | 200                                    | 620                                     | 500                                     | 140                                    | 40                                    | 55                                    | 75                                    | 390                                     | 131                   | 140                                    | M33                                  | UK328D1;H2328                                        |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

2) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

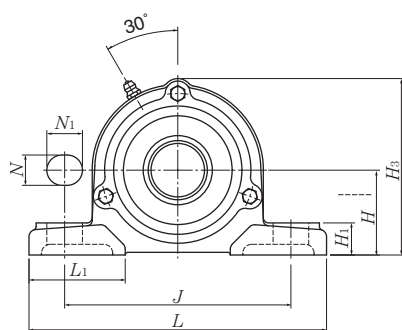
In this case the lock washer with the straight inner prong should be used.

3) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.

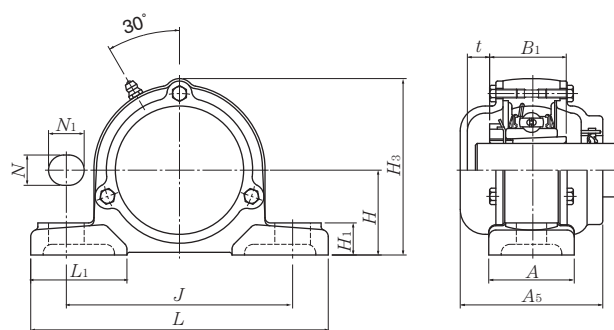
To distinguish it, a suffix "Y" is added.

Note: Please refer to page 36 for size of grease fitting.





Cast dust cover type (Open end)  
C-UKP...D1

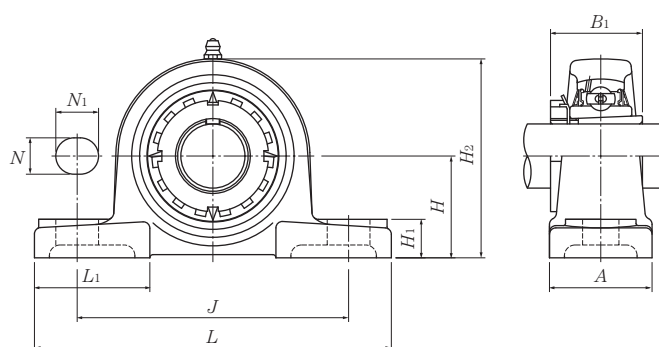


Cast dust cover type (Close end)  
CM-UKP...D1

| Housing <sup>1)</sup><br>number | Unit number <sup>1) 2) 3)</sup><br>cast dust cover type | Nominal<br>dimensions |                   |                   | Mass<br>(approx.) |       |
|---------------------------------|---------------------------------------------------------|-----------------------|-------------------|-------------------|-------------------|-------|
|                                 |                                                         | mm    inch            |                   |                   | kg                | lb    |
|                                 |                                                         | t                     | H <sub>3</sub>    | A <sub>5</sub>    | UKP               | C(CM) |
| P315D1                          | C(CM)-UKP315D1;H2315X                                   | 26                    | 210               | 150               | 14                | 18    |
| P315D1                          | C(CM)-UKP315AD1;HA2315                                  | 1 $\frac{1}{32}$      | 8 $\frac{9}{32}$  | 5 $\frac{29}{32}$ | 31                | 40    |
| P315D1                          | C(CM)-UKP315ED1;HE2315X                                 |                       |                   |                   |                   |       |
| P316D1                          | C(CM)-UKP316D1;H2316X                                   | 24                    | 221               | 155               | 17                | 21    |
| P316D1                          | C(CM)-UKP316AD1;HA2316                                  | 1 $\frac{5}{16}$      | 8 $\frac{11}{16}$ | 6 $\frac{3}{32}$  | 37                | 46    |
| P316D1                          | C(CM)-UKP316ED1;HE2316X                                 |                       |                   |                   |                   |       |
| P317D1                          | C(CM)-UKP317D1;H2317X                                   | 29                    | 235               | 170               | 19                | 24    |
| P317D1                          | C(CM)-UKP317AD1;HA2317X                                 | 1 $\frac{5}{32}$      | 9 $\frac{1}{4}$   | 6 $\frac{11}{16}$ | 44                | 60    |
| P317D1                          | C(CM)-UKP317ED1;HE2317X                                 |                       |                   |                   |                   |       |
| P318D1                          | C(CM)-UKP318D1;H2318X                                   | 27                    | 246               | 170               | 22                | 28    |
| P318D1                          | C(CM)-UKP318AD1;HA2318X                                 | 1 $\frac{1}{16}$      | 9 $\frac{11}{16}$ | 6 $\frac{11}{16}$ | 53                | 68    |
| P319D1                          | C(CM)-UKP319D1;H2319X                                   | 29                    | 258               | 180               | 27                | 33    |
| P319D1                          | C(CM)-UKP319ED1;HE2319X                                 | 1 $\frac{5}{32}$      | 10 $\frac{5}{32}$ | 7 $\frac{3}{32}$  | 64                | 84    |
| P320D1                          | C(CM)-UKP320D1;H2320X                                   | 29                    | 283               | 190               | 33                | 40    |
| P320D1                          | C(CM)-UKP320AD1;HA2320                                  | 1 $\frac{5}{32}$      | 11 $\frac{5}{32}$ | 7 $\frac{15}{32}$ | 77                | 104   |
| P320D1                          | C(CM)-UKP320ED1;HE2320X                                 |                       |                   |                   |                   |       |
| P322D1                          | C(CM)-UKP322D1;H2322X                                   | 30                    | 313               | 200               | 43                | 53    |
| P324D1                          | C(CM)-UKP324D1;H2324X                                   | 32                    | 335               | 215               | 50                | 67    |
| P326D1                          | C(CM)-UKP326D1;H2326                                    | 34                    | 375               | 225               | 69                | 86    |
| P328D1                          | C(CM)-UKP328D1;H2328                                    | 36                    | 407               | 235               | 84                | 101   |



# Pillow blocks cast housing Adapter type



| Shaft<br>dia.<br><br>mm<br>inch | Unit number <sup>1) 2) 3)</sup>                                            | Nominal dimensions |               |                |              |              |                |                |                |                |                | Bolt<br>size<br><br>mm<br>inch |
|---------------------------------|----------------------------------------------------------------------------|--------------------|---------------|----------------|--------------|--------------|----------------|----------------|----------------|----------------|----------------|--------------------------------|
|                                 |                                                                            | H                  | L             | J              | A            | N            | N <sub>1</sub> | H <sub>1</sub> | H <sub>2</sub> | B <sub>1</sub> | L <sub>1</sub> |                                |
| 20<br>3/4                       | UKPX05D1;H2305X<br>UKPX05D1;HE2305                                         | 44.4<br>1 3/4      | 159<br>6 1/4  | 119<br>4 11/16 | 51<br>2      | 17<br>2 1/32 | 20<br>25/32    | 18<br>23/32    | 85<br>3 11/32  | 35<br>1.378    | 50<br>1 31/32  | M14<br>1/2                     |
| 25<br>7/8<br>1                  | UKPX06D1;H2306X<br>UKPX06D1;HS2306<br>UKPX06D1;HE2306X                     | 47.6<br>1 7/8      | 175<br>6 7/8  | 127<br>5       | 57<br>2 1/4  | 17<br>2 1/32 | 20<br>25/32    | 20<br>25/32    | 93<br>3 21/32  | 38<br>1.496    | 54<br>2 1/8    | M14<br>1/2                     |
| 30<br>1 1/8                     | UKPX07D1;H2307X<br>UKPX07D1;HS2307                                         | 54<br>2 1/8        | 203<br>8      | 144<br>5 21/32 | 57<br>2 1/4  | 17<br>2 1/32 | 20<br>25/32    | 21<br>13/16    | 105<br>4 1/8   | 43<br>1.693    | 60<br>2 3/8    | M14<br>1/2                     |
| 35<br>1 1/4<br>1 3/8            | UKPX08D1;H2308X<br>UKPX08D1;HE2308X<br>UKPX08D1;HS2308X                    | 58.7<br>2 5/16     | 222<br>8 3/4  | 156<br>6 5/32  | 67<br>2 5/8  | 20<br>25/32  | 23<br>29/32    | 26<br>1 1/32   | 111<br>4 3/8   | 46<br>1.811    | 65<br>2 9/16   | M16<br>5/8                     |
| 40<br>1 7/16<br>1 1/2<br>1 5/8  | UKPX09D1;H2309X<br>UKPX09D1;HA2309<br>UKPX09D1;HE2309X<br>UKPX09D1;HS2309X | 58.7<br>2 5/16     | 222<br>8 3/4  | 156<br>6 5/32  | 67<br>2 5/8  | 20<br>25/32  | 23<br>29/32    | 26<br>1 1/32   | 116<br>4 9/16  | 50<br>1.969    | 65<br>2 9/16   | M16<br>5/8                     |
| 45<br>1 5/8<br>1 11/16<br>1 3/4 | UKPX10D1;H2310X<br>UKPX10D1;HS2310<br>UKPX10D1;HA2310<br>UKPX10D1;HE2310X  | 63.5<br>2 1/2      | 241<br>9 1/2  | 171<br>6 23/32 | 73<br>2 7/8  | 20<br>25/32  | 23<br>29/32    | 27<br>1 1/16   | 126<br>4 31/32 | 55<br>2.165    | 70<br>2 3/4    | M16<br>5/8                     |
| 50<br>1 7/8<br>1 15/16<br>2     | UKPX11D1;H2311X<br>UKPX11D1;HS2311<br>UKPX11D1;HA2311<br>UKPX11D1;HE2311XY | 69.8<br>2 3/4      | 260<br>10 1/4 | 184<br>7 1/4   | 79<br>3 1/8  | 25<br>3 1/32 | 28<br>1 3/32   | 30<br>1 3/16   | 137<br>5 13/32 | 59<br>2.323    | 75<br>2 15/16  | M20<br>3/4                     |
| 55<br>2 1/8                     | UKPX12D1;H2312X<br>UKPX12D1;HS2312                                         | 76.2<br>3          | 286<br>11 1/4 | 203<br>8       | 83<br>3 9/32 | 25<br>3 1/32 | 28<br>1 3/32   | 33<br>1 5/16   | 151<br>5 15/16 | 62<br>2.441    | 80<br>3 5/32   | M20<br>3/4                     |
| 60<br>2 3/16<br>2 1/4<br>2 3/8  | UKPX13D1;H2313X<br>UKPX13D1;HA2313<br>UKPX13D1;HE2313X<br>UKPX13D1;HS2313X | 76.2<br>3          | 286<br>11 1/4 | 203<br>8       | 83<br>3 9/32 | 25<br>3 1/32 | 28<br>1 3/32   | 33<br>1 5/16   | 154<br>6 1/16  | 65<br>2.559    | 80<br>3 5/32   | M20<br>3/4                     |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

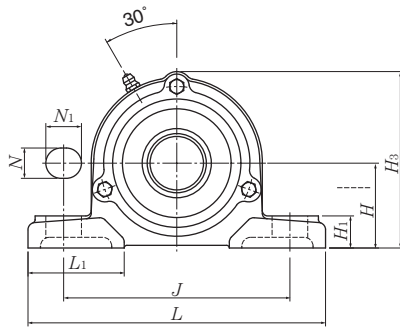
2) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

In this case the lock washer with the straight inner prong should be used.

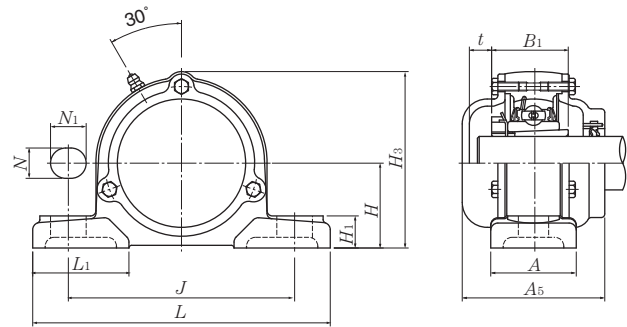
3) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.

To distinguish it, a suffix "Y" is added.

Note: Please refer to page 36 for size of grease fitting.



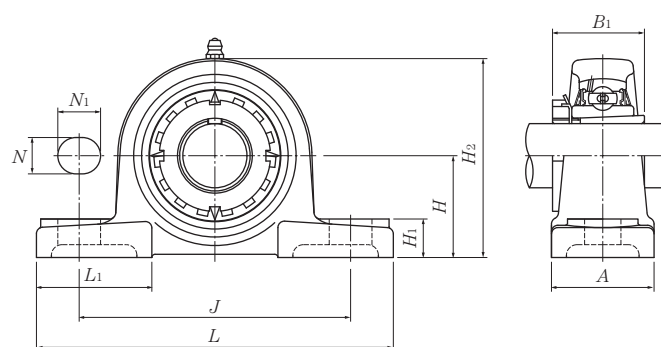
Cast dust cover type (Open end)  
C-UKP...D1



Cast dust cover type (Close end)  
CM-UKP...D1

| Bearing number <sup>2) 3)</sup> | Housing <sup>1)</sup><br>number | Unit number <sup>1) 2) 3)</sup><br>cast dust cover type | Nominal dimensions               |                                 |                                 | Mass (approx.) |       |
|---------------------------------|---------------------------------|---------------------------------------------------------|----------------------------------|---------------------------------|---------------------------------|----------------|-------|
|                                 |                                 |                                                         | mm                               | inch                            |                                 | kg             | lb    |
|                                 |                                 |                                                         | t                                | H <sub>3</sub>                  | A <sub>5</sub>                  | UKPX           | C(CM) |
| UKX05D1;H2305X                  | PX05D1                          | C(CM)-UKPX05D1;H2305X                                   | 12                               | 89                              | 75                              | 1.4            | 1.8   |
| UKX05D1;HE2305                  | PX05D1                          | C(CM)-UKPX05ED1;HE2305                                  | 15 <sup>15</sup> / <sub>32</sub> | 3 <sup>1</sup> / <sub>2</sub>   | 2 <sup>15</sup> / <sub>16</sub> | 3.1            | 4.0   |
| UKX06D1;H2306X                  | PX06D1                          | C(CM)-UKPX06D1;H2306X                                   | 13                               | 99                              | 80                              | 1.7            | 2.2   |
| UKX06D1;HS2306                  | PX06D1                          | C(CM)-UKPX06SD1;HS2306                                  | 33 <sup>33</sup> / <sub>64</sub> | 3 <sup>29</sup> / <sub>32</sub> | 3 <sup>5</sup> / <sub>32</sub>  | 3.8            | 4.9   |
| UKX06D1;HE2306X                 | PX06D1                          | C(CM)-UKPX06ED1;HE2306X                                 |                                  |                                 |                                 |                |       |
| UKX07D1;H2307X                  | PX07D1                          | C(CM)-UKPX07D1;H2307X                                   | 15                               | 110                             | 90                              | 2.5            | 3.3   |
| UKX07D1;HS2307                  | PX07D1                          | C(CM)-UKPX07SD1;HS2307                                  | 19 <sup>19</sup> / <sub>32</sub> | 4 <sup>11</sup> / <sub>32</sub> | 3 <sup>17</sup> / <sub>32</sub> | 5.5            | 7.3   |
| UKX08D1;H2308X                  | PX08D1                          | C(CM)-UKPX08D1;H2308X                                   | 17                               | 118                             | 95                              | 3.2            | 4.1   |
| UKX08D1;HE2308X                 | PX08D1                          | C(CM)-UKPX08ED1;HE2308X                                 | 21 <sup>21</sup> / <sub>32</sub> | 4 <sup>41</sup> / <sub>64</sub> | 3 <sup>3</sup> / <sub>4</sub>   | 7.1            | 9.0   |
| UKX08D1;HS2308X                 | PX08D1                          | C(CM)-UKPX08SD1;HS2308X                                 |                                  |                                 |                                 |                |       |
| UKX09D1;H2309X                  | PX09D1                          | C(CM)-UKPX09D1;H2309X                                   | 18                               | 120                             | 100                             | 3.3            | 4.3   |
| UKX09D1;HA2309                  | PX09D1                          | C(CM)-UKPX09AD1;HA2309                                  |                                  |                                 |                                 |                |       |
| UKX09D1;HE2309X                 | PX09D1                          | C(CM)-UKPX09ED1;HE2309X                                 | 23 <sup>23</sup> / <sub>32</sub> | 4 <sup>23</sup> / <sub>32</sub> | 3 <sup>15</sup> / <sub>16</sub> | 7.3            | 9.5   |
| UKX09D1;HS2309X                 | PX09D1                          | C(CM)-UKPX09SD1;HS2309X                                 |                                  |                                 |                                 |                |       |
| UKX10D1;H2310X                  | PX10D1                          | C(CM)-UKPX10D1;H2310X                                   | 15                               | 130                             | 100                             | 4.2            | 5.4   |
| UKX10D1;HS2310                  | PX10D1                          | C(CM)-UKPX10SD1;HS2310                                  |                                  |                                 |                                 |                |       |
| UKX10D1;HA2310                  | PX10D1                          | C(CM)-UKPX10AD1;HA2310                                  | 19 <sup>19</sup> / <sub>32</sub> | 5 <sup>1</sup> / <sub>8</sub>   | 3 <sup>15</sup> / <sub>16</sub> | 9.3            | 12    |
| UKX10D1;HE2310X                 | PX10D1                          | C(CM)-UKPX10ED1;HE2310X                                 |                                  |                                 |                                 |                |       |
| UKX11D1;H2311X                  | PX11D1                          | C(CM)-UKPX11D1;H2311X                                   | 21                               | 144                             | 115                             | 5.3            | 6.8   |
| UKX11D1;HS2311                  | PX11D1                          | C(CM)-UKPX11SD1;HS2311                                  |                                  |                                 |                                 |                |       |
| UKX11D1;HA2311                  | PX11D1                          | C(CM)-UKPX11AD1;HA2311                                  | 13 <sup>13</sup> / <sub>16</sub> | 5 <sup>21</sup> / <sub>32</sub> | 4 <sup>17</sup> / <sub>32</sub> | 12             | 15    |
| UKX11D1;HE2311XY                | PX11D1                          | C(CM)-UKPX11ED1;HE2311XY                                |                                  |                                 |                                 |                |       |
| UKX12D1;H2312X                  | PX12D1                          | C(CM)-UKPX12D1;H2312X                                   | 22                               | 155                             | 120                             | 6.8            | 8.6   |
| UKX12D1;HS2312                  | PX12D1                          | C(CM)-UKPX12SD1;HS2312                                  | 7 <sup>7</sup> / <sub>8</sub>    | 6 <sup>3</sup> / <sub>32</sub>  | 4 <sup>23</sup> / <sub>32</sub> | 15             | 19    |
| UKX13D1;H2313X                  | PX13D1                          | C(CM)-UKPX13D1;H2313X                                   | 26                               | 159                             | 135                             | 6.9            | 9.2   |
| UKX13D1;HA2313                  | PX13D1                          | C(CM)-UKPX13AD1;HA2313                                  |                                  |                                 |                                 |                |       |
| UKX13D1;HE2313X                 | PX13D1                          | C(CM)-UKPX13ED1;HE2313X                                 | 1 <sup>1</sup> / <sub>32</sub>   | 1 <sup>1</sup> / <sub>4</sub>   | 5 <sup>5</sup> / <sub>16</sub>  | 15             | 20    |
| UKX13D1;HS2313X                 | PX13D1                          | C(CM)-UKPX13SD1;HS2313X                                 |                                  |                                 |                                 |                |       |

## Pillow blocks cast housing Adapter type



| Shaft<br>dia.                                                          | Unit number <sup>1) 2) 3)</sup> | Nominal dimensions            |          |                                 |                                |                                |                                |                                |                               |                       |                                 | Bolt<br>size   |
|------------------------------------------------------------------------|---------------------------------|-------------------------------|----------|---------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------------------|-----------------------|---------------------------------|----------------|
|                                                                        |                                 | mm                            |          |                                 |                                |                                | inch                           |                                |                               |                       |                                 |                |
|                                                                        |                                 | <i>H</i>                      | <i>L</i> | <i>J</i>                        | <i>A</i>                       | <i>N</i>                       | <i>N</i> <sub>1</sub>          | <i>H</i> <sub>1</sub>          | <i>H</i> <sub>2</sub>         | <i>B</i> <sub>1</sub> | <i>L</i> <sub>1</sub>           |                |
| mm<br>inch                                                             |                                 |                               |          |                                 |                                |                                |                                |                                |                               |                       |                                 | mm<br>inch     |
| 65<br>2 <sup>7</sup> / <sub>16</sub><br>2 <sup>1</sup> / <sub>2</sub>  | UKPX15D1;H2315X                 | 88.9                          | 330      | 229                             | 89                             | 27                             | 30                             | 35                             | 175                           | 73                    | 95                              | M22<br><br>7/8 |
|                                                                        | UKPX15D1;HA2315                 | 3 <sup>1</sup> / <sub>2</sub> | 13       | 9 <sup>1</sup> / <sub>32</sub>  | 3 <sup>1</sup> / <sub>2</sub>  | 1 <sup>1</sup> / <sub>16</sub> | 1 <sup>3</sup> / <sub>16</sub> | 1 <sup>3</sup> / <sub>8</sub>  | 6 <sup>7</sup> / <sub>8</sub> | 2.874                 | 3 <sup>3</sup> / <sub>4</sub>   |                |
|                                                                        | UKPX15D1;HE2315X                |                               |          |                                 |                                |                                |                                |                                |                               |                       |                                 |                |
| 70<br>2 <sup>11</sup> / <sub>16</sub><br>2 <sup>3</sup> / <sub>4</sub> | UKPX16D1;H2316X                 | 101.6                         | 381      | 283                             | 102                            | 27                             | 30                             | 40                             | 194                           | 78                    | 110                             | M22<br><br>7/8 |
|                                                                        | UKPX16D1;HA2316                 | 4                             | 15       | 11 <sup>5</sup> / <sub>32</sub> | 4 <sup>1</sup> / <sub>32</sub> | 1 <sup>1</sup> / <sub>16</sub> | 1 <sup>3</sup> / <sub>16</sub> | 1 <sup>9</sup> / <sub>16</sub> | 7 <sup>5</sup> / <sub>8</sub> | 3.071                 | 4 <sup>11</sup> / <sub>32</sub> |                |
|                                                                        | UKPX16D1;HE2316X                |                               |          |                                 |                                |                                |                                |                                |                               |                       |                                 |                |
| 75<br>2 <sup>15</sup> / <sub>16</sub><br>3                             | UKPX17D1;H2317X                 | 101.6                         | 381      | 283                             | 102                            | 27                             | 30                             | 40                             | 200                           | 82                    | 110                             | M22<br><br>7/8 |
|                                                                        | UKPX17D1;HA2317X                | 4                             | 15       | 11 <sup>5</sup> / <sub>32</sub> | 4 <sup>1</sup> / <sub>32</sub> | 1 <sup>1</sup> / <sub>16</sub> | 1 <sup>3</sup> / <sub>16</sub> | 1 <sup>9</sup> / <sub>16</sub> | 7 <sup>7</sup> / <sub>8</sub> | 3.228                 | 4 <sup>11</sup> / <sub>32</sub> |                |
|                                                                        | UKPX17D1;HE2317X                |                               |          |                                 |                                |                                |                                |                                |                               |                       |                                 |                |
| 80<br>3 <sup>3</sup> / <sub>16</sub>                                   | UKPX18D1;H2318X                 | 101.6                         | 381      | 283                             | 111                            | 27                             | 30                             | 40                             | 206                           | 86                    | 110                             | M22<br><br>7/8 |
|                                                                        | UKPX18D1;HA2318X                | 4                             | 15       | 11 <sup>5</sup> / <sub>32</sub> | 4 <sup>3</sup> / <sub>8</sub>  | 1 <sup>1</sup> / <sub>16</sub> | 1 <sup>3</sup> / <sub>16</sub> | 1 <sup>9</sup> / <sub>16</sub> | 8 <sup>1</sup> / <sub>8</sub> | 3.386                 | 4 <sup>11</sup> / <sub>32</sub> |                |
| 90                                                                     | UKPX20D1;H2320X                 | 127                           | 432      | 337                             | 121                            | 33                             | 36                             | 45                             | 244                           | 97                    | 125                             | M27            |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

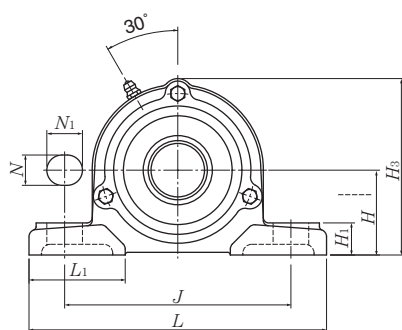
2) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

In this case the lock washer with the straight inner prong should be used.

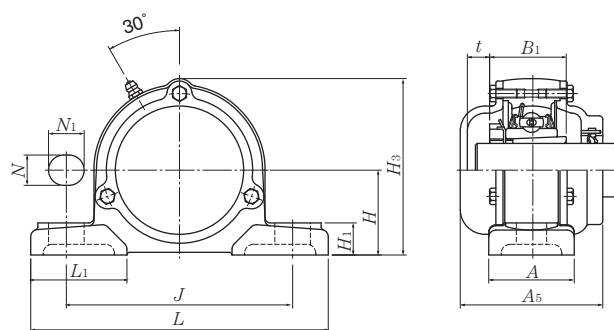
3) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.

To distinguish it, a suffix "Y" is added.

Note: Please refer to page 36 for size of grease fitting.



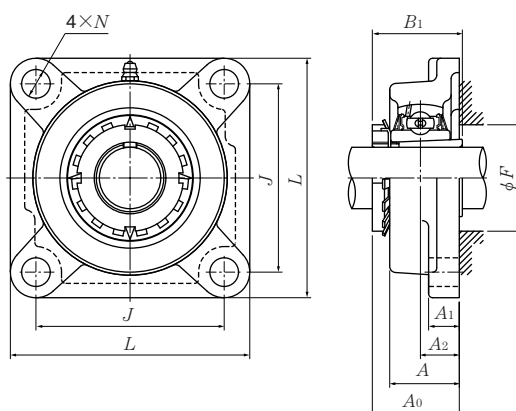
Cast dust cover type (Open end)  
C-UKP...D1



Cast dust cover type (Close end)  
CM-UKP...D1

| Bearing number <sup>2) 3)</sup> | Housing <sup>1)</sup><br>number | Unit number <sup>1) 2) 3)</sup><br>cast dust cover type | Nominal<br>dimensions           |                                 |                                 | Mass of unit<br>(approx.) |       |
|---------------------------------|---------------------------------|---------------------------------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------|-------|
|                                 |                                 |                                                         | mm                              | inch                            |                                 | kg                        | lb    |
|                                 |                                 |                                                         | t                               | H <sub>3</sub>                  | A <sub>5</sub>                  | UKPX                      | C(CM) |
| UKX15D1;H2315X                  | PX15D1                          | C(CM)-UKPX15D1;H2315X                                   | 29                              | 181                             | 145                             | 10                        | 13    |
| UKX15D1;HA2315                  | PX15D1                          | C(CM)-UKPX15AD1;HA2315                                  | 1 <sup>5</sup> / <sub>32</sub>  | 7 <sup>1</sup> / <sub>8</sub>   | 5 <sup>23</sup> / <sub>32</sub> | 22                        | 29    |
| UKX15D1;HE2315X                 | PX15D1                          | C(CM)-UKPX15ED1;HE2315X                                 |                                 |                                 |                                 |                           |       |
| UKX16D1;H2316X                  | PX16D1                          | C(CM)-UKPX16D1;H2316X                                   | 31                              | 198                             | 155                             | 14                        | 17    |
| UKX16D1;HA2316                  | PX16D1                          | C(CM)-UKPX16AD1;HA2316                                  | 1 <sup>7</sup> / <sub>32</sub>  | 7 <sup>25</sup> / <sub>32</sub> | 6 <sup>3</sup> / <sub>32</sub>  | 31                        | 37    |
| UKX16D1;HE2316X                 | PX16D1                          | C(CM)-UKPX16ED1;HE2316X                                 |                                 |                                 |                                 |                           |       |
| UKX17D1;H2317X                  | PX17D1                          | C(CM)-UKPX17D1;H2317X                                   | 35                              | 204                             | 165                             | 15                        | 18    |
| UKX17D1;HA2317X                 | PX17D1                          | C(CM)-UKPX17AD1;HA2317X                                 | 1 <sup>3</sup> / <sub>8</sub>   | 8 <sup>1</sup> / <sub>32</sub>  | 6 <sup>1</sup> / <sub>2</sub>   | 33                        | 40    |
| UKX17D1;HE2317X                 | PX17D1                          | C(CM)-UKPX17ED1;HE2317X                                 |                                 |                                 |                                 |                           |       |
| UKX18D1;H2318X                  | PX18D1                          | C(CM)-UKPX18D1;H2318X                                   | 41                              | 208                             | 180                             | 16                        | 20    |
| UKX18D1;HA2318X                 | PX18D1                          | C(CM)-UKPX18AD1;HA2318X                                 | 1 <sup>39</sup> / <sub>64</sub> | 8 <sup>3</sup> / <sub>16</sub>  | 7 <sup>3</sup> / <sub>32</sub>  | 35                        | 44    |
| UKX20D1;H2320X                  | PX20D1                          | C(CM)-UKPX20D1;H2320X                                   | 43                              | 244                             | 195                             | 24                        | 28    |

# Square flanged units cast housing Adapter type



| Shaft<br>dia.                   | Unit number <sup>1) 2) 3)</sup>                                            | Nominal dimensions |               |                       |                       |               |             |                       |                       |                  | Bolt<br>size | Bearing number <sup>2) 3)</sup>                                        |
|---------------------------------|----------------------------------------------------------------------------|--------------------|---------------|-----------------------|-----------------------|---------------|-------------|-----------------------|-----------------------|------------------|--------------|------------------------------------------------------------------------|
|                                 |                                                                            | <i>L</i>           | <i>J</i>      | <i>A</i> <sub>2</sub> | <i>A</i> <sub>1</sub> | <i>A</i>      | <i>N</i>    | <i>A</i> <sub>0</sub> | <i>B</i> <sub>1</sub> | <i>F</i><br>min. |              |                                                                        |
| 20<br>3/4                       | UKF205D1;H2305X<br>UKF205D1;HE2305                                         | 95<br>3 3/4        | 70<br>2 3/4   | 16<br>5/8             | 13<br>1/2             | 27<br>1 1/16  | 12<br>15/32 | 35.5<br>1 25/64       | 35<br>1.378           | 30<br>1 3/16     | M10<br>3/8   | UK205D1;H2305X<br>UK205D1;HE2305                                       |
| 25<br>7/8<br>1                  | UKF206D1;H2306X<br>UKF206D1;HS2306<br>UKF206D1;HE2306X                     | 108<br>4 1/4       | 83<br>3 17/64 | 18<br>45/64           | 13<br>1/2             | 31<br>1 7/32  | 12<br>15/32 | 39<br>1 17/32         | 38<br>1.496           | 36<br>1 13/32    | M10<br>3/8   | UK206D1;H2306X<br>UK206D1;HS2306<br>UK206D1;HE2306X                    |
| 30<br>1 1/8                     | UKF207D1;H2307X<br>UKF207D1;HS2307                                         | 117<br>4 19/32     | 92<br>3 5/8   | 19<br>3/4             | 15<br>19/32           | 34<br>1 11/32 | 14<br>35/64 | 42.5<br>1 43/64       | 43<br>1.693           | 40<br>1 9/16     | M12<br>7/16  | UK207D1;H2307X<br>UK207D1;HS2307                                       |
| 35<br>1 1/4<br>1 3/8            | UKF208D1;H2308X<br>UKF208D1;HE2308X<br>UKF208D1;HS2308X                    | 130<br>5 1/8       | 102<br>4 1/64 | 21<br>53/64           | 15<br>19/32           | 36<br>1 13/32 | 16<br>5/8   | 46.5<br>1 53/64       | 46<br>1.811           | 46<br>1 13/16    | M14<br>1/2   | UK208D1;H2308X<br>UK208D1;HE2308X<br>UK208D1;HS2308X                   |
| 40<br>1 7/16<br>1 1/2<br>1 5/8  | UKF209D1;H2309X<br>UKF209D1;HA2309<br>UKF209D1;HE2309X<br>UKF209D1;HS2309X | 137<br>5 13/32     | 105<br>4 9/64 | 22<br>55/64           | 16<br>5/8             | 38<br>1 1/2   | 16<br>5/8   | 48.5<br>1 29/32       | 50<br>1.969           | 52<br>2 1/16     | M14<br>1/2   | UK209D1;H2309X<br>UK209D1;HA2309<br>UK209D1;HE2309X<br>UK209D1;HS2309X |
| 45<br>1 5/8<br>1 11/16<br>1 3/4 | UKF210D1;H2310X<br>UKF210D1;HS2310<br>UKF210D1;HA2310<br>UKF210D1;HE2310X  | 143<br>5 5/8       | 111<br>4 3/8  | 22<br>55/64           | 16<br>5/8             | 40<br>1 9/16  | 16<br>5/8   | 50<br>1 31/32         | 55<br>2.165           | 57<br>2 1/4      | M14<br>1/2   | UK210D1;H2310X<br>UK210D1;HS2310<br>UK210D1;HA2310<br>UK210D1;HE2310X  |
| 50<br>1 7/8<br>1 15/16<br>2     | UKF211D1;H2311X<br>UKF211D1;HS2311<br>UKF211D1;HA2311<br>UKF211D1;HE2311XY | 162<br>6 3/8       | 130<br>5 1/8  | 25<br>63/64           | 18<br>23/32           | 43<br>1 11/16 | 19<br>3/4   | 54.5<br>2 9/64        | 59<br>2.323           | 64<br>2 17/32    | M16<br>5/8   | UK211D1;H2311X<br>UK211D1;HS2311<br>UK211D1;HA2311<br>UK211D1;HE2311XY |

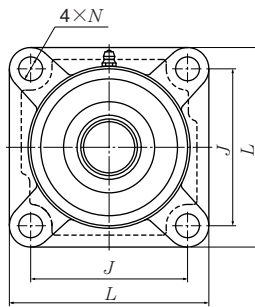
Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

2) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

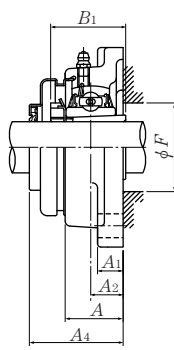
In this case the lock washer with the straight inner prong should be used.

3) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.

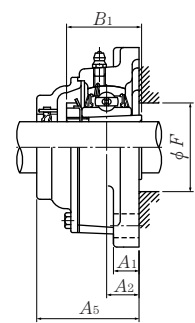
To distinguish it, a suffix "Y" is added.



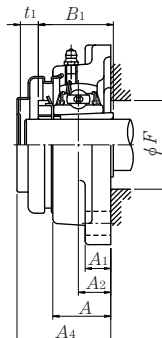
Press steel dust cover type (Open end)  
S-UKF...D1



Cast dust cover type (Open end)  
C-UKF...D1



Press steel dust cover type (Close end)  
SM-UKF...D1



Cast dust cover type (Close end)  
CM-UKF...D1

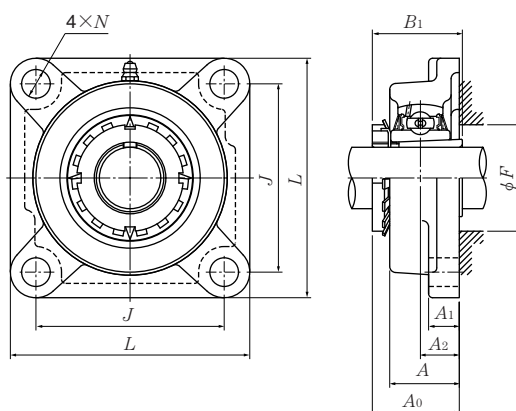
| Housing <sup>1)</sup><br>number | Unit number 1) 2) 3) 4)<br>pressed steel dust cover type | Unit number 1) 2) 3) 4)<br>cast dust cover type | Nominal dimensions |                |                |                | Mass<br>(approx.) |       |       |
|---------------------------------|----------------------------------------------------------|-------------------------------------------------|--------------------|----------------|----------------|----------------|-------------------|-------|-------|
|                                 |                                                          |                                                 | mm                 |                | inch           |                | kg                |       | lb    |
|                                 |                                                          |                                                 | t <sub>1</sub>     | t <sub>2</sub> | A <sub>4</sub> | A <sub>5</sub> | UKF               | S(SM) | C(CM) |
| F205D1                          | S(SM)-UKF205D1;H2305X                                    | C(CM)-UKF205D1;H2305X                           | 7                  | 11             | 44.5           | 51             | 0.8               | 0.8   | 1.0   |
| F205D1                          | S(SM)-UKF205ED1;HE2305                                   | C(CM)-UKF205ED1;HE2305                          | 9/32               | 7/16           | 1 3/4          | 2              | 1.8               | 1.8   | 2.2   |
| F206D1                          | S(SM)-UKF206D1;H2306X                                    | C(CM)-UKF206D1;H2306X                           | 8                  | 13             | 49             | 56             | 1.1               | 1.1   | 1.3   |
| F206D1                          | S(SM)-UKF206SD1;HS2306                                   | C(CM)-UKF206SD1;HS2306                          | 5/16               | 33/64          | 1 15/16        | 2 7/32         | 2.4               | 2.4   | 2.9   |
| F206D1                          | S(SM)-UKF206ED1;HE2306X                                  | C(CM)-UKF206ED1;HE2306X                         |                    |                |                |                |                   |       |       |
| F207D1                          | S(SM)-UKF207D1;H2307X                                    | C(CM)-UKF207D1;H2307X                           | 10                 | 12             | 55             | 59             | 1.6               | 1.6   | 1.9   |
| F207D1                          | S(SM)-UKF207SD1;HS2307                                   | C(CM)-UKF207SD1;HS2307                          | 25/64              | 15/32          | 2 5/32         | 2 5/16         | 3.3               | 3.5   | 4.2   |
| F208D1                          | S(SM)-UKF208D1;H2308X                                    | C(CM)-UKF208D1;H2308X                           | 13                 | 14             | 62             | 66             | 1.8               | 1.9   | 2.4   |
| F208D1                          | S(SM)-UKF208ED1;HE2308X                                  | C(CM)-UKF208ED1;HE2308X                         | 33/64              | 35/64          | 2 7/16         | 2 19/32        | 4.0               | 4.2   | 5.3   |
| F208D1                          | S(SM)-UKF208SD1;HS2308X                                  | C(CM)-UKF208SD1;HS2308X                         |                    |                |                |                |                   |       |       |
| F209D1                          | S(SM)-UKF209D1;H2309X                                    | C(CM)-UKF209D1;H2309X                           | 12                 | 16             | 63             | 70             | 2.3               | 2.3   | 2.8   |
| F209D1                          | S(SM)-UKF209AD1;HA2309                                   | C(CM)-UKF209AD1;HA2309                          |                    |                |                |                |                   |       |       |
| F209D1                          | S(SM)-UKF209ED1;HE2309X                                  | C(CM)-UKF209ED1;HE2309X                         | 15/32              | 5/8            | 2 15/32        | 2 3/4          | 5.1               | 5.1   | 6.2   |
| F209D1                          | S(SM)-UKF209SD1;HS2309X                                  | C(CM)-UKF209SD1;HS2309X                         |                    |                |                |                |                   |       |       |
| F210D1                          | S(SM)-UKF210D1;H2310X                                    | C(CM)-UKF210D1;H2310X                           | 13                 | 17             | 65.5           | 72             | 2.6               | 2.7   | 3.2   |
| F210D1                          | S(SM)-UKF210SD1;HS2310                                   | C(CM)-UKF210SD1;HS2310                          |                    |                |                |                |                   |       |       |
| F210D1                          | S(SM)-UKF210AD1;HA2310                                   | C(CM)-UKF210AD1;HA2310                          | 33/64              | 21/32          | 2 19/32        | 2 27/32        | 5.7               | 6.0   | 7.1   |
| F210D1                          | S(SM)-UKF210ED1;HE2310X                                  | C(CM)-UKF210ED1;HE2310X                         |                    |                |                |                |                   |       |       |
| F211D1                          | S(SM)-UKF211D1;H2311X                                    | C(CM)-UKF211D1;H2311X                           | 14                 | 15             | 71             | 75             | 3.5               | 3.6   | 4.3   |
| F211D1                          | S(SM)-UKF211SD1;HS2311                                   | C(CM)-UKF211SD1;HS2311                          |                    |                |                |                |                   |       |       |
| F211D1                          | S(SM)-UKF211AD1;HA2311                                   | C(CM)-UKF211AD1;HA2311                          | 35/64              | 19/32          | 2 25/32        | 2 15/16        | 7.7               | 7.9   | 9.5   |
| F211D1                          | S(SM)-UKF211ED1;HE2311XY                                 | C(CM)-UKF211ED1;HE2311XY                        |                    |                |                |                |                   |       |       |

Remarks: 4) If the inch series housing units with dust cover are ordered with a closed end, the suffixes E, S or A are not included.

Example: SM-UKF205D1; HE2305

Note: Please refer to page 36 for size of grease fitting.

# Square flanged units cast housing Adapter type



| Shaft<br>dia.                  | Unit number <sup>1) 2) 3)</sup>                                            | Nominal dimensions |                |                       |                       |               |             |                       |                       |                  | Bolt<br>size | Bearing number <sup>2) 3)</sup>                                        |
|--------------------------------|----------------------------------------------------------------------------|--------------------|----------------|-----------------------|-----------------------|---------------|-------------|-----------------------|-----------------------|------------------|--------------|------------------------------------------------------------------------|
|                                |                                                                            | <i>L</i>           | <i>J</i>       | <i>A</i> <sub>2</sub> | <i>A</i> <sub>1</sub> | <i>A</i>      | <i>N</i>    | <i>A</i> <sub>0</sub> | <i>B</i> <sub>1</sub> | <i>F</i><br>min. |              |                                                                        |
| mm<br>inch                     |                                                                            |                    |                |                       | mm                    | inch          |             |                       |                       |                  | mm<br>inch   |                                                                        |
| 55<br>2 1/8                    | UKF212D1;H2312X<br>UKF212D1;HS2312                                         | 175<br>6 7/8       | 143<br>5 5/8   | 29<br>1 1/4           | 18<br>23/32           | 48<br>1 7/8   | 19<br>3/4   | 61<br>2 13/32         | 62<br>2.441           | 69<br>2 23/32    | M16<br>5/8   | UK212D1;H2312X<br>UK212D1;HS2312                                       |
| 60<br>2 3/16<br>2 1/4<br>2 3/8 | UKF213D1;H2313X<br>UKF213D1;HA2313<br>UKF213D1;HE2313X<br>UKF213D1;HS2313X | 187<br>7 3/8       | 149<br>5 55/64 | 30<br>1 3/16          | 22<br>7/8             | 50<br>1 31/32 | 19<br>3/4   | 64<br>2 33/64         | 65<br>2.559           | 74<br>2 29/32    | M16<br>5/8   | UK213D1;H2313X<br>UK213D1;HA2313<br>UK213D1;HE2313X<br>UK213D1;HS2313X |
| 65<br>2 7/16<br>2 1/2          | UKF215D1;H2315X<br>UKF215D1;HA2315<br>UKF215D1;HE2315X                     | 200<br>7 7/8       | 159<br>6 17/64 | 34<br>1 11/32         | 22<br>7/8             | 56<br>2 7/32  | 19<br>3/4   | 71<br>2 51/64         | 73<br>2.874           | 84<br>3 5/16     | M16<br>5/8   | UK215D1;H2315X<br>UK215D1;HA2315<br>UK215D1;HE2315X                    |
| 70<br>2 11/16<br>2 3/4         | UKF216D1;H2316X<br>UKF216D1;HA2316<br>UKF216D1;HE2316X                     | 208<br>8 3/16      | 165<br>6 1/2   | 34<br>1 11/32         | 22<br>7/8             | 58<br>2 9/32  | 23<br>29/32 | 73.5<br>2 57/64       | 78<br>3.071           | 90<br>3 17/32    | M20<br>3/4   | UK216D1;H2316X<br>UK216D1;HA2316<br>UK216D1;HE2316X                    |
| 75<br>2 15/16<br>3             | UKF217D1;H2317X<br>UKF217D1;HA2317X<br>UKF217D1;HE2317X                    | 220<br>8 21/32     | 175<br>6 57/64 | 36<br>1 27/64         | 24<br>15/16           | 63<br>2 15/32 | 23<br>29/32 | 77<br>3 1/32          | 82<br>3.228           | 95<br>3 3/4      | M20<br>3/4   | UK217D1;H2317X<br>UK217D1;HA2317X<br>UK217D1;HE2317X                   |
| 80<br>3 1/16                   | UKF218D1;H2318X<br>UKF218D1;HA2318X                                        | 235<br>9 1/4       | 187<br>7 23/64 | 40<br>1 37/64         | 24<br>15/16           | 68<br>2 11/16 | 23<br>29/32 | 81.5<br>3 13/64       | 86<br>3.386           | 102<br>4 1/32    | M20<br>3/4   | UK218D1;H2318X<br>UK218D1;HA2318X                                      |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

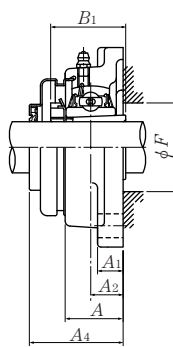
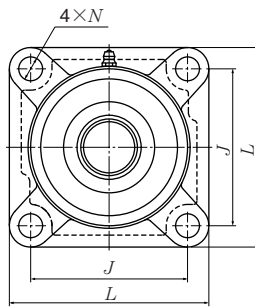
2) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

In this case the lock washer with the straight inner prong should be used.

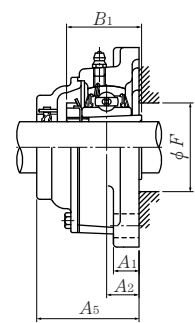
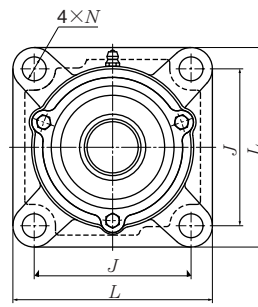
3) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.

To distinguish it, a suffix "Y" is added.

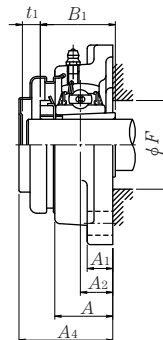
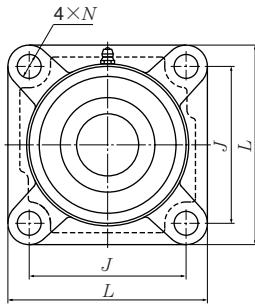




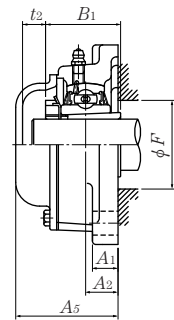
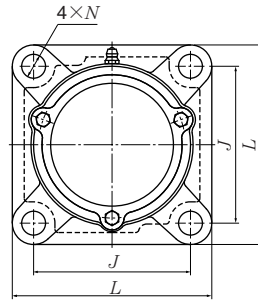
Press steel dust cover type (Open end)  
S-UKF...D1



Cast dust cover type (Open end)  
C-UKF...D1



Press steel dust cover type (Close end)  
SM-UKF...D1



Cast dust cover type (Close end)  
CM-UKF...D1

| Housing <sup>1)</sup><br>number | Unit number 1) 2) 3) 4)<br>pressed steel dust cover type | Unit number 1) 2) 3) 4)<br>cast dust cover type | Nominal dimensions |                  |                 |                  | Mass<br>(approx.) |       |       |
|---------------------------------|----------------------------------------------------------|-------------------------------------------------|--------------------|------------------|-----------------|------------------|-------------------|-------|-------|
|                                 |                                                          |                                                 | mm                 |                  | inch            |                  | kg                |       | lb    |
|                                 |                                                          |                                                 | t <sub>1</sub>     | t <sub>2</sub>   | A <sub>4</sub>  | A <sub>5</sub>   | UKF               | S(SM) | C(CM) |
| F212D1                          | <b>S(SM)-UKF212D1;H2312X</b>                             | <b>C(CM)-UKF212D1;H2312X</b>                    | 16                 | 20               | 80              | 86               | 4.0               | 4.2   | 5.0   |
| F212D1                          | <b>S(SM)-UKF212SD1;HS2312</b>                            | <b>C(CM)-UKF212SD1;HS2312</b>                   | $\frac{5}{8}$      | $\frac{25}{32}$  | $3\frac{5}{32}$ | $3\frac{3}{8}$   | 8.8               | 9.3   | 11    |
| F213D1                          | <b>S(SM)-UKF213D1;H2313X</b>                             | <b>C(CM)-UKF213D1;H2313X</b>                    | 17                 | 21               | 83.5            | 90               | 5.6               | 5.8   | 6.7   |
| F213D1                          | <b>S(SM)-UKF213AD1;HA2313</b>                            | <b>C(CM)-UKF213AD1;HA2313</b>                   |                    |                  |                 |                  |                   |       |       |
| F213D1                          | <b>S(SM)-UKF213ED1;HE2313X</b>                           | <b>C(CM)-UKF213ED1;HE2313X</b>                  | $2\frac{1}{32}$    | $\frac{13}{16}$  | $3\frac{5}{16}$ | $3\frac{17}{32}$ | 12                | 13    | 15    |
| F213D1                          | <b>S(SM)-UKF213SD1;HS2313X</b>                           | <b>C(CM)-UKF213SD1;HS2313X</b>                  |                    |                  |                 |                  |                   |       |       |
| F215D1                          | —                                                        | <b>C(CM)-UKF215D1;H2315X</b>                    | —                  | 25               | —               | 102              | 6.8               | —     | 8.3   |
| F215D1                          | —                                                        | <b>C(CM)-UKF215AD1;HA2315</b>                   | —                  | $\frac{63}{64}$  | —               | $4\frac{1}{32}$  | 15                | —     | 18    |
| F215D1                          | —                                                        | <b>C(CM)-UKF215ED1;HE2315X</b>                  |                    |                  |                 |                  |                   |       |       |
| F216D1                          | —                                                        | <b>C(CM)-UKF216D1;H2316X</b>                    | —                  | 26               | —               | 106              | 8.3               | —     | 10    |
| F216D1                          | —                                                        | <b>C(CM)-UKF216AD1;HA2316</b>                   | —                  | $1\frac{1}{32}$  | —               | $4\frac{3}{16}$  | 18                | —     | 22    |
| F216D1                          | —                                                        | <b>C(CM)-UKF216ED1;HE2316X</b>                  |                    |                  |                 |                  |                   |       |       |
| F217D1                          | —                                                        | <b>C(CM)-UKF217D1;H2317X</b>                    | —                  | 31               | —               | 114              | 10                | —     | 13    |
| F217D1                          | —                                                        | <b>C(CM)-UKF217AD1;HA2317X</b>                  | —                  | $1\frac{7}{32}$  | —               | $4\frac{1}{2}$   | 22                | —     | 29    |
| F217D1                          | —                                                        | <b>C(CM)-UKF217ED1;HE2317X</b>                  |                    |                  |                 |                  |                   |       |       |
| F218D1                          | —                                                        | <b>C(CM)-UKF218D1;H2318X</b>                    | —                  | 34               | —               | 122              | 12                | —     | 14    |
| F218D1                          | —                                                        | <b>C(CM)-UKF218AD1;HA2318X</b>                  | —                  | $1\frac{11}{32}$ | —               | $4\frac{13}{16}$ | 26                | —     | 31    |

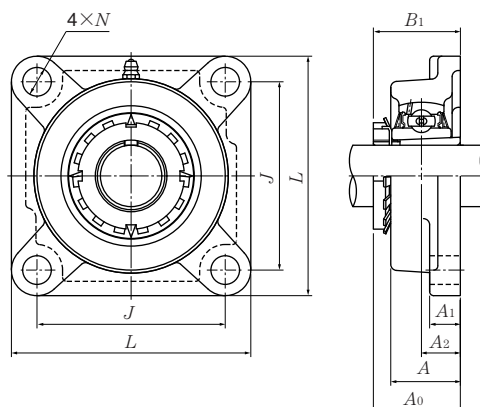
Remarks: 4) If the inch series housing units with dust cover are ordered with a closed end, the suffixes E, S or A are not included.

Example: SM-UKF205D1; HE2305

Note: Please refer to page 36 for size of grease fitting.



# Square flanged units cast housing Adapter type



| Shaft<br>dia.                   | Unit number <sup>1) 2) 3)</sup>                                            | Nominal dimensions |                |                       |                       |               |             |                       |                       | Bolt<br>size | Bearing number <sup>2) 3)</sup>                                        |
|---------------------------------|----------------------------------------------------------------------------|--------------------|----------------|-----------------------|-----------------------|---------------|-------------|-----------------------|-----------------------|--------------|------------------------------------------------------------------------|
|                                 |                                                                            | mm                 |                |                       |                       | inch          |             |                       |                       |              |                                                                        |
| mm<br>inch                      |                                                                            | <i>L</i>           | <i>J</i>       | <i>A</i> <sub>2</sub> | <i>A</i> <sub>1</sub> | <i>A</i>      | <i>N</i>    | <i>A</i> <sub>0</sub> | <i>B</i> <sub>1</sub> | mm<br>inch   |                                                                        |
| 20<br>¾                         | UKF305D1;H2305X<br>UKF305D1;HE2305                                         | 110<br>4 11/32     | 80<br>3 5/32   | 16<br>5/8             | 13<br>1/2             | 29<br>1 5/32  | 16<br>5/8   | 37<br>1 29/64         | 35<br>1.378           | M14<br>1/2   | UK305D1;H2305X<br>UK305D1;HE2305                                       |
| 25<br>7/8<br>1                  | UKF306D1;H2306X<br>UKF306D1;HS2306<br>UKF306D1;HE2306X                     | 125<br>4 29/32     | 95<br>3 47/64  | 18<br>45/64           | 15<br>19/32           | 32<br>1 1/4   | 16<br>5/8   | 40.5<br>1 19/32       | 38<br>1.496           | M14<br>1/2   | UK306D1;H2306X<br>UK306D1;HS2306<br>UK306D1;HE2306X                    |
| 30<br>1 1/8                     | UKF307D1;H2307X<br>UKF307D1;HS2307                                         | 135<br>5 5/16      | 100<br>3 15/16 | 20<br>25/32           | 16<br>5/8             | 36<br>1 13/32 | 19<br>¾     | 45.5<br>1 51/64       | 43<br>1.693           | M16<br>5/8   | UK307D1;H2307X<br>UK307D1;HS2307                                       |
| 35<br>1 1/4<br>1 3/8            | UKF308D1;H2308X<br>UKF308D1;HE2308X<br>UKF308D1;HS2308X                    | 150<br>5 29/32     | 112<br>4 13/32 | 23<br>29/32           | 17<br>21/32           | 40<br>1 9/16  | 19<br>¾     | 50<br>1 31/32         | 46<br>1.811           | M16<br>5/8   | UK308D1;H2308X<br>UK308D1;HE2308X<br>UK308D1;HS2308X                   |
| 40<br>1 7/16<br>1 1/2<br>1 5/8  | UKF309D1;H2309X<br>UKF309D1;HA2309<br>UKF309D1;HE2309X<br>UKF309D1;HS2309X | 160<br>6 5/16      | 125<br>4 59/64 | 25<br>63/64           | 18<br>23/32           | 44<br>1 23/32 | 19<br>¾     | 54.5<br>2 9/64        | 50<br>1.969           | M16<br>5/8   | UK309D1;H2309X<br>UK309D1;HA2309<br>UK309D1;HE2309X<br>UK309D1;HS2309X |
| 45<br>1 5/8<br>1 11/16<br>1 3/4 | UKF310D1;H2310X<br>UKF310D1;HS2310<br>UKF310D1;HA2310<br>UKF310D1;HE2310X  | 175<br>6 7/8       | 132<br>5 13/64 | 28<br>1 7/64          | 19<br>¾               | 48<br>1 7/8   | 23<br>29/32 | 60.5<br>2 3/8         | 55<br>2.165           | M20<br>¾     | UK310D1;H2310X<br>UK310D1;HS2310<br>UK310D1;HA2310<br>UK310D1;HE2310X  |
| 50<br>1 7/8<br>1 15/16<br>2     | UKF311D1;H2311X<br>UKF311D1;HS2311<br>UKF311D1;HA2311<br>UKF311D1;HE2311XY | 185<br>7 9/32      | 140<br>5 33/64 | 30<br>1 3/16          | 20<br>25/32           | 52<br>2 1/16  | 23<br>29/32 | 64<br>2 33/64         | 59<br>2.323           | M20<br>¾     | UK311D1;H2311X<br>UK311D1;HS2311<br>UK311D1;HA2311<br>UK311D1;HE2311XY |
| 55<br>2 1/8                     | UKF312D1;H2312X<br>UKF312D1;HS2312                                         | 195<br>7 11/16     | 150<br>5 29/32 | 33<br>1 19/64         | 22<br>7/8             | 56<br>2 7/32  | 23<br>29/32 | 69.5<br>2 47/64       | 62<br>2.441           | M20<br>¾     | UK312D1;H2312X<br>UK312D1;HS2312                                       |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

2) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

In this case the lock washer with the straight inner prong should be used.

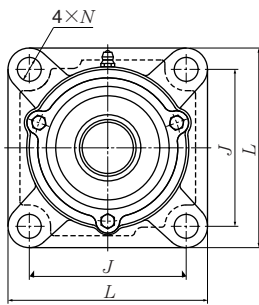
3) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.

To distinguish it, a suffix "Y" is added.

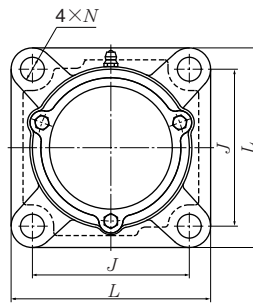
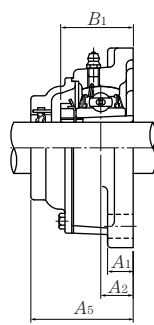
4) If the inch series housing units with dust cover are ordered with a closed end, the suffixes E, S or A are not included.

Example: CM-UKF305D1; HE2305

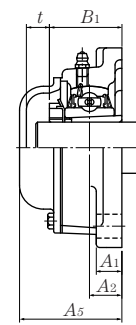
Note: Please refer to page 36 for size of grease fitting.



Cast dust cover type (Open end)  
C-UKF...D1

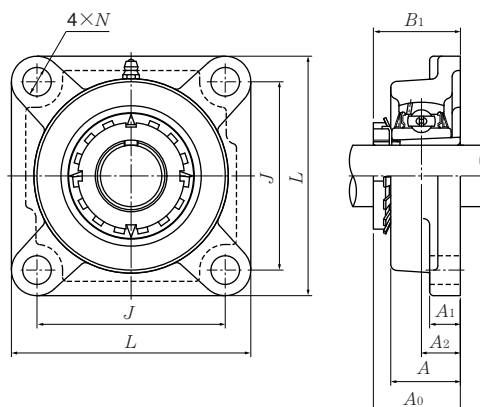


Cast dust cover type (Close end)  
CM-UKF...D1



| Housing<br>number <sup>1)</sup> | Unit number <sup>1) 2) 3) 4)</sup><br>cast dust cover type | Nominal<br>dimensions |                  | Mass<br>(approx.) |       |
|---------------------------------|------------------------------------------------------------|-----------------------|------------------|-------------------|-------|
|                                 |                                                            | mm                    | inch             | kg                | lb    |
|                                 |                                                            | t                     | A <sub>5</sub>   | UKF               | C(CM) |
| F305D1                          | C(CM)-UKF305D1;H2305X                                      | 14                    | 56               | 1.1               | 1.5   |
| F305D1                          | C(CM)-UKF305ED1;HE2305                                     | $\frac{35}{64}$       | $2\frac{7}{32}$  | 2.4               | 3.3   |
| F306D1                          | C(CM)-UKF306D1;H2306X                                      | 14                    | 60               | 1.7               | 2.1   |
| F306D1                          | C(CM)-UKF306SD1;HS2306                                     | $\frac{35}{64}$       | $2\frac{3}{8}$   | 3.8               | 4.6   |
| F306D1                          | C(CM)-UKF306ED1;HE2306X                                    |                       |                  |                   |       |
| F307D1                          | C(CM)-UKF307D1;H2307X                                      | 17                    | 68               | 2.1               | 2.7   |
| F307D1                          | C(CM)-UKF307SD1;HS2307                                     | $2\frac{1}{32}$       | $2\frac{11}{16}$ | 4.6               | 6.0   |
| F308D1                          | C(CM)-UKF308D1;H2308X                                      | 20                    | 76               | 2.8               | 3.5   |
| F308D1                          | C(CM)-UKF308ED1;HE2308X                                    | $\frac{25}{32}$       | 3                | 6.2               | 7.7   |
| F308D1                          | C(CM)-UKF308SD1;HS2308X                                    |                       |                  |                   |       |
| F309D1                          | C(CM)-UKF309D1;H2309X                                      | 19                    | 80               | 3.4               | 4.4   |
| F309D1                          | C(CM)-UKF309AD1;HA2309                                     |                       |                  |                   |       |
| F309D1                          | C(CM)-UKF309ED1;HE2309X                                    | $\frac{3}{4}$         | $3\frac{5}{32}$  | 7.5               | 9.7   |
| F309D1                          | C(CM)-UKF309SD1;HS2309X                                    |                       |                  |                   |       |
| F310D1                          | C(CM)-UKF310D1;H2310X                                      | 21                    | 88               | 4.5               | 5.9   |
| F310D1                          | C(CM)-UKF310SD1;HS2310                                     |                       |                  |                   |       |
| F310D1                          | C(CM)-UKF310AD1;HA2310                                     | $\frac{13}{16}$       | $3\frac{15}{32}$ | 9.9               | 13    |
| F310D1                          | C(CM)-UKF310ED1;HE2310X                                    |                       |                  |                   |       |
| F311D1                          | C(CM)-UKF311D1;H2311X                                      | 22                    | 92               | 5.3               | 6.8   |
| F311D1                          | C(CM)-UKF311SD1;HS2311                                     |                       |                  |                   |       |
| F311D1                          | C(CM)-UKF311AD1;HA2311                                     | $\frac{7}{8}$         | $3\frac{5}{8}$   | 12                | 15    |
| F311D1                          | C(CM)-UKF311ED1;HE2311XY                                   |                       |                  |                   |       |
| F312D1                          | C(CM)-UKF312D1;H2312X                                      | 24                    | 100              | 6.3               | 7.9   |
| F312D1                          | C(CM)-UKF312SD1;HS2312                                     | $\frac{15}{16}$       | $3\frac{15}{16}$ | 14                | 17    |

# Square flanged units cast housing Adapter type



| Shaft<br>dia.                                                                                                             | Unit number <sup>1) 2) 3)</sup>                                                                        | Nominal dimensions               |                                 |                                 |                                |                                 |                                |                                 |                       | Bolt<br>size                  | Bearing number <sup>2) 3)</sup>                                        |
|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------|---------------------------------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|-----------------------|-------------------------------|------------------------------------------------------------------------|
| mm<br>inch                                                                                                                |                                                                                                        | mm                               |                                 |                                 |                                | inch                            |                                |                                 |                       | mm<br>inch                    |                                                                        |
|                                                                                                                           |                                                                                                        | <i>L</i>                         | <i>J</i>                        | <i>A</i> <sub>2</sub>           | <i>A</i> <sub>1</sub>          | <i>A</i>                        | <i>N</i>                       | <i>A</i> <sub>0</sub>           | <i>B</i> <sub>1</sub> |                               |                                                                        |
| <b>60</b><br><b>2<sup>3</sup>/<sub>16</sub></b><br><b>2<sup>1</sup>/<sub>4</sub></b><br><b>2<sup>3</sup>/<sub>8</sub></b> | <b>UKF313D1;H2313X</b><br><b>UKF313D1;HA2313</b><br><b>UKF313D1;HE2313X</b><br><b>UKF313D1;HS2313X</b> | 208                              | 166                             | 33                              | 22                             | 58                              | 23                             | 71.5                            | 65                    | M20                           | UK313D1;H2313X<br>UK313D1;HA2313<br>UK313D1;HE2313X<br>UK313D1;HS2313X |
|                                                                                                                           |                                                                                                        | 8 <sup>3</sup> / <sub>16</sub>   | 6 <sup>17</sup> / <sub>32</sub> | 1 <sup>19</sup> / <sub>64</sub> | <sup>7</sup> / <sub>8</sub>    | 2 <sup>9</sup> / <sub>32</sub>  | <sup>29</sup> / <sub>32</sub>  | 2 <sup>13</sup> / <sub>16</sub> | 2.559                 | <sup>3</sup> / <sub>4</sub>   |                                                                        |
| <b>65</b><br><b>2<sup>7</sup>/<sub>16</sub></b><br><b>2<sup>1</sup>/<sub>2</sub></b>                                      | <b>UKF315D1;H2315X</b><br><b>UKF315D1;HA2315</b><br><b>UKF315D1;HE2315X</b>                            | 236                              | 184                             | 39                              | 25                             | 66                              | 25                             | 81.5                            | 73                    | M22                           | UK315D1;H2315X<br>UK315D1;HA2315<br>UK315D1;HE2315X                    |
|                                                                                                                           |                                                                                                        | 9 <sup>9</sup> / <sub>32</sub>   | 7 <sup>1</sup> / <sub>4</sub>   | 1 <sup>17</sup> / <sub>32</sub> | <sup>31</sup> / <sub>32</sub>  | 2 <sup>19</sup> / <sub>32</sub> | <sup>63</sup> / <sub>64</sub>  | 3 <sup>13</sup> / <sub>64</sub> | 2.874                 | <sup>7</sup> / <sub>8</sub>   |                                                                        |
| <b>70</b><br><b>2<sup>11</sup>/<sub>16</sub></b><br><b>2<sup>3</sup>/<sub>4</sub></b>                                     | <b>UKF316D1;H2316X</b><br><b>UKF316D1;HA2316</b><br><b>UKF316D1;HE2316X</b>                            | 250                              | 196                             | 38                              | 27                             | 68                              | 31                             | 84                              | 78                    | M27                           | UK316D1;H2316X<br>UK316D1;HA2316<br>UK316D1;HE2316X                    |
|                                                                                                                           |                                                                                                        | 9 <sup>27</sup> / <sub>32</sub>  | 7 <sup>23</sup> / <sub>32</sub> | 1 <sup>1</sup> / <sub>2</sub>   | 1 <sup>1</sup> / <sub>16</sub> | 2 <sup>11</sup> / <sub>16</sub> | 1 <sup>7</sup> / <sub>32</sub> | 3 <sup>5</sup> / <sub>16</sub>  | 3.071                 | 1                             |                                                                        |
| <b>75</b><br><b>2<sup>15</sup>/<sub>16</sub></b><br><b>3</b>                                                              | <b>UKF317D1;H2317X</b><br><b>UKF317D1;HA2317X</b><br><b>UKF317D1;HE2317X</b>                           | 260                              | 204                             | 44                              | 27                             | 74                              | 31                             | 92                              | 82                    | M27                           | UK317D1;H2317X<br>UK317D1;HA2317X<br>UK317D1;HE2317X                   |
|                                                                                                                           |                                                                                                        | 10 <sup>1</sup> / <sub>4</sub>   | 8 <sup>1</sup> / <sub>32</sub>  | 1 <sup>47</sup> / <sub>64</sub> | 1 <sup>1</sup> / <sub>16</sub> | 2 <sup>29</sup> / <sub>32</sub> | 1 <sup>7</sup> / <sub>32</sub> | 3 <sup>5</sup> / <sub>8</sub>   | 3.228                 | 1                             |                                                                        |
| <b>80</b><br><b>3<sup>3</sup>/<sub>16</sub></b>                                                                           | <b>UKF318D1;H2318X</b><br><b>UKF318D1;HA2318X</b>                                                      | 280                              | 216                             | 44                              | 30                             | 76                              | 35                             | 94                              | 86                    | M30                           | UK318D1;H2318X<br>UK318D1;HA2318X                                      |
|                                                                                                                           |                                                                                                        | 11 <sup>1</sup> / <sub>32</sub>  | 8 <sup>1</sup> / <sub>2</sub>   | 1 <sup>47</sup> / <sub>64</sub> | 1 <sup>3</sup> / <sub>16</sub> | 3                               | 1 <sup>3</sup> / <sub>8</sub>  | 3 <sup>45</sup> / <sub>64</sub> | 3.386                 | 1 <sup>1</sup> / <sub>8</sub> |                                                                        |
| <b>85</b><br><b>3<sup>1</sup>/<sub>4</sub></b>                                                                            | <b>UKF319D1;H2319X</b><br><b>UKF319D1;HE2319X</b>                                                      | 290                              | 228                             | 59                              | 30                             | 94                              | 35                             | 111.5                           | 90                    | M30                           | UK319D1;H2319X<br>UK319D1;HE2319X                                      |
|                                                                                                                           |                                                                                                        | 11 <sup>13</sup> / <sub>32</sub> | 8 <sup>31</sup> / <sub>32</sub> | 2 <sup>21</sup> / <sub>64</sub> | 1 <sup>3</sup> / <sub>16</sub> | 3 <sup>11</sup> / <sub>16</sub> | 1 <sup>3</sup> / <sub>8</sub>  | 4 <sup>25</sup> / <sub>64</sub> | 3.543                 | 1 <sup>1</sup> / <sub>8</sub> |                                                                        |
| <b>90</b><br><b>3<sup>7</sup>/<sub>16</sub></b><br><b>3<sup>1</sup>/<sub>2</sub></b>                                      | <b>UKF320D1;H2320X</b><br><b>UKF320D1;HA2320</b><br><b>UKF320D1;HE2320X</b>                            | 310                              | 242                             | 59                              | 32                             | 94                              | 38                             | 115.5                           | 97                    | M33                           | UK320D1;H2320X<br>UK320D1;HA2320<br>UK320D1;HE2320X                    |
|                                                                                                                           |                                                                                                        | 12 <sup>7</sup> / <sub>32</sub>  | 9 <sup>17</sup> / <sub>32</sub> | 2 <sup>21</sup> / <sub>64</sub> | 1 <sup>1</sup> / <sub>4</sub>  | 3 <sup>11</sup> / <sub>16</sub> | 1 <sup>1</sup> / <sub>2</sub>  | 4 <sup>35</sup> / <sub>64</sub> | 3.819                 | 1 <sup>1</sup> / <sub>4</sub> |                                                                        |
| <b>100</b>                                                                                                                | <b>UKF322D1;H2322X</b>                                                                                 | 340                              | 266                             | 60                              | 35                             | 96                              | 41                             | 121                             | 105                   | M36                           | UK322D1;H2322X                                                         |
| <b>110</b>                                                                                                                | <b>UKF324D1;H2324X</b>                                                                                 | 370                              | 290                             | 65                              | 40                             | 110                             | 41                             | 130                             | 112                   | M36                           | UK324D1;H2324X                                                         |
| <b>115</b>                                                                                                                | <b>UKF326D1;H2326</b>                                                                                  | 410                              | 320                             | 65                              | 45                             | 115                             | 41                             | 133                             | 121                   | M36                           | UK326D1;H2326                                                          |
| <b>125</b>                                                                                                                | <b>UKF328D1;H2328</b>                                                                                  | 450                              | 350                             | 75                              | 55                             | 125                             | 41                             | 146.5                           | 131                   | M36                           | UK328D1;H2328                                                          |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

2) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

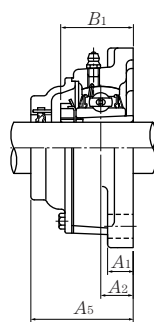
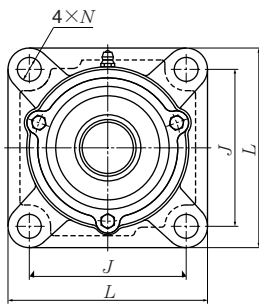
In this case the lock washer with the straight inner prong should be used.

3) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve. To distinguish it, a suffix "Y" is added.

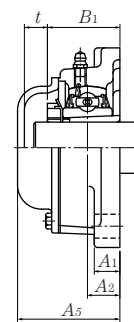
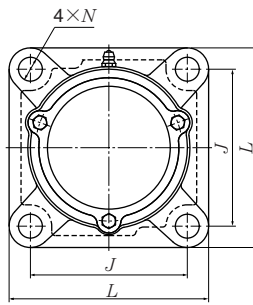
4) If the inch series housing units with dust cover are ordered with a closed end, the suffixes E, S or A are not included.

Example: CM-UKF305D1; HE2305

Note: Please refer to page 36 for size of grease fitting.



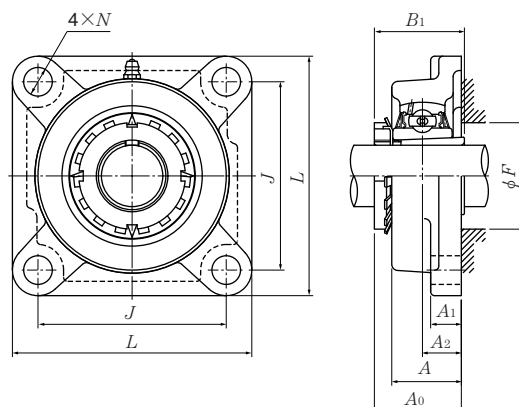
Cast dust cover type (Open end)  
C-UKF...D1



Cast dust cover type (Close end)  
CM-UKF...D1

| Housing<br>number <sup>1)</sup> | Unit number <sup>1) 2) 3) 4)</sup><br>cast dust cover type | Nominal<br>dimensions |                 | Mass<br>(approx.) |       |
|---------------------------------|------------------------------------------------------------|-----------------------|-----------------|-------------------|-------|
|                                 |                                                            | mm                    | inch            | kg                | lb    |
|                                 |                                                            | t                     | A <sub>5</sub>  | UKF               | C(CM) |
| F313D1                          | C(CM)-UKF313D1;H2313X                                      | 25                    | 103             | 7.8               | 9.6   |
| F313D1                          | C(CM)-UKF313AD1;HA2313                                     |                       |                 |                   |       |
| F313D1                          | C(CM)-UKF313ED1;HE2313X                                    | $\frac{63}{64}$       | $4\frac{1}{16}$ | 17                | 21    |
| F313D1                          | C(CM)-UKF313SD1;HS2313X                                    |                       |                 |                   |       |
| F315D1                          | C(CM)-UKF315D1;H2315X                                      | 26                    | 114             | 11                | 13    |
| F315D1                          | C(CM)-UKF315AD1;HA2315                                     |                       |                 |                   |       |
| F315D1                          | C(CM)-UKF315ED1;HE2315X                                    | $1\frac{1}{32}$       | $4\frac{1}{2}$  | 24                | 29    |
| F316D1                          | C(CM)-UKF316D1;H2316X                                      | 25                    | 116             | 14                | 16    |
| F316D1                          | C(CM)-UKF316AD1;HA2316                                     | $\frac{63}{64}$       | $4\frac{9}{16}$ | 31                | 35    |
| F316D1                          | C(CM)-UKF316ED1;HE2316X                                    |                       |                 |                   |       |
| F317D1                          | C(CM)-UKF317D1;H2317X                                      | 29                    | 129             | 15                | 19    |
| F317D1                          | C(CM)-UKF317AD1;HA2317X                                    |                       |                 |                   |       |
| F317D1                          | C(CM)-UKF317ED1;HE2317X                                    | $1\frac{5}{32}$       | $5\frac{3}{32}$ | 33                | 42    |
| F318D1                          | C(CM)-UKF318D1;H2318X                                      | 27                    | 129             | 19                | 23    |
| F318D1                          | C(CM)-UKF318AD1;HA2318X                                    | $1\frac{1}{16}$       | $5\frac{3}{32}$ | 42                | 51    |
| F319D1                          | C(CM)-UKF319D1;H2319X                                      | 29                    | 149             | 22                | 26    |
| F319D1                          | C(CM)-UKF319ED1;HE2319X                                    | $1\frac{5}{32}$       | $5\frac{7}{8}$  | 49                | 57    |
| F320D1                          | C(CM)-UKF320D1;H2320X                                      | 29                    | 154             | 27                | 32    |
| F320D1                          | C(CM)-UKF320AD1;HA2320                                     |                       |                 |                   |       |
| F320D1                          | C(CM)-UKF320ED1;HE2320X                                    | $1\frac{5}{32}$       | $6\frac{1}{16}$ | 60                | 71    |
| F322D1                          | C(CM)-UKF322D1;H2322X                                      | 30                    | 160             | 35                | 41    |
| F324D1                          | C(CM)-UKF324D1;H2324X                                      | 32                    | 172             | 48                | 56    |
| F326D1                          | C(CM)-UKF326D1;H2326                                       | 35                    | 178             | 63                | 75    |
| F328D1                          | C(CM)-UKF328D1;H2328                                       | 35                    | 192             | 90                | 101   |

# Square flanged units cast housing Adapter type



| Shaft<br>dia.                                                               | Unit number <sup>1) 2) 3)</sup>                                            | Nominal dimensions                     |                                        |                                       |                                       |                                       |                                       |                                         |                       |                                       |            | Bolt<br>size                                                           | Bearing number <sup>2) 3)</sup> |
|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------------|-----------------------|---------------------------------------|------------|------------------------------------------------------------------------|---------------------------------|
| mm<br>inch                                                                  |                                                                            | <i>L</i>                               | <i>J</i>                               | <i>A</i> <sub>2</sub>                 | mm<br><i>A</i> <sub>1</sub>           | inch<br><i>A</i>                      | <i>N</i>                              | <i>A</i> <sub>0</sub>                   | <i>B</i> <sub>1</sub> | <i>F</i><br>min.                      | mm<br>inch |                                                                        |                                 |
| 20<br>¾                                                                     | UKFX05D1;H2305X<br>UKFX05D1;HE2305                                         | 108<br>4¼                              | 83<br>3 <sup>17</sup> / <sub>64</sub>  | 18<br>45 <sup>5</sup> / <sub>64</sub> | 13<br>½                               | 30<br>1 <sup>3</sup> / <sub>16</sub>  | 12<br>15 <sup>1</sup> / <sub>32</sub> | 39<br>1 <sup>17</sup> / <sub>32</sub>   | 35<br>1.378           | 30<br>1 <sup>3</sup> / <sub>16</sub>  | M10<br>⅜   | UKX05D1;H2305X<br>UKX05D1;HE2305                                       |                                 |
| 25<br>7⁄8<br>1                                                              | UKFX06D1;H2306X<br>UKFX06D1;HS2306<br>UKFX06D1;HE2306X                     | 117<br>4 <sup>19</sup> / <sub>32</sub> | 92<br>3 <sup>5</sup> / <sub>8</sub>    | 19<br>¾                               | 14<br>9⁄16                            | 34<br>1 <sup>11</sup> / <sub>32</sub> | 16<br>⅝                               | 41.5<br>1 <sup>41</sup> / <sub>64</sub> | 38<br>1.496           | 36<br>1 <sup>13</sup> / <sub>32</sub> | M14<br>½   | UKX06D1;H2306X<br>UKX06D1;HS2306<br>UKX06D1;HE2306X                    |                                 |
| 30<br>1⅛                                                                    | UKFX07D1;H2307X<br>UKFX07D1;HS2307                                         | 130<br>5⅛                              | 102<br>4 <sup>1</sup> / <sub>64</sub>  | 21<br>53 <sup>3</sup> / <sub>64</sub> | 14<br>9⁄16                            | 38<br>1½                              | 16<br>⅝                               | 45.5<br>1 <sup>51</sup> / <sub>64</sub> | 43<br>1.693           | 40<br>1 <sup>9</sup> / <sub>16</sub>  | M14<br>½   | UKX07D1;H2307X<br>UKX07D1;HS2307                                       |                                 |
| 35<br>1¼<br>1⅜                                                              | UKFX08D1;H2308X<br>UKFX08D1;HE2308X<br>UKFX08D1;HS2308X                    | 137<br>5 <sup>13</sup> / <sub>32</sub> | 105<br>4 <sup>9</sup> / <sub>64</sub>  | 22<br>55 <sup>5</sup> / <sub>64</sub> | 14<br>9⁄16                            | 40<br>1 <sup>9</sup> / <sub>16</sub>  | 19<br>¾                               | 47.5<br>1 <sup>7</sup> / <sub>8</sub>   | 46<br>1.811           | 46<br>1 <sup>13</sup> / <sub>16</sub> | M16<br>⅝   | UKX08D1;H2308X<br>UKX08D1;HE2308X<br>UKX08D1;HS2308X                   |                                 |
| 40<br>1 <sup>7</sup> / <sub>16</sub><br>1½<br>1⅝                            | UKFX09D1;H2309X<br>UKFX09D1;HA2309<br>UKFX09D1;HE2309X<br>UKFX09D1;HS2309X | 143<br>5 <sup>5</sup> / <sub>8</sub>   | 111<br>4 <sup>3</sup> / <sub>8</sub>   | 23<br>29 <sup>1</sup> / <sub>32</sub> | 14<br>9⁄16                            | 40<br>1 <sup>9</sup> / <sub>16</sub>  | 19<br>¾                               | 50<br>1 <sup>31</sup> / <sub>32</sub>   | 50<br>1.969           | 52<br>2 <sup>1</sup> / <sub>16</sub>  | M16<br>⅝   | UKX09D1;H2309X<br>UKX09D1;HA2309<br>UKX09D1;HE2309X<br>UKX09D1;HS2309X |                                 |
| 45<br>1⅝<br>1 <sup>11</sup> / <sub>16</sub><br>1¾                           | UKFX10D1;H2310X<br>UKFX10D1;HS2310<br>UKFX10D1;HA2310<br>UKFX10D1;HE2310X  | 162<br>6 <sup>3</sup> / <sub>8</sub>   | 130<br>5⅛                              | 26<br>1 <sup>1</sup> / <sub>32</sub>  | 20<br>25 <sup>1</sup> / <sub>32</sub> | 44<br>1 <sup>23</sup> / <sub>32</sub> | 19<br>¾                               | 55.5<br>2 <sup>3</sup> / <sub>16</sub>  | 55<br>2.165           | 57<br>2¼                              | M16<br>⅝   | UKX10D1;H2310X<br>UKX10D1;HS2310<br>UKX10D1;HA2310<br>UKX10D1;HE2310X  |                                 |
| 50<br>1⅞<br>1 <sup>15</sup> / <sub>16</sub><br>2                            | UKFX11D1;H2311X<br>UKFX11D1;HS2311<br>UKFX11D1;HA2311<br>UKFX11D1;HE2311XY | 175<br>6 <sup>7</sup> / <sub>8</sub>   | 143<br>5 <sup>5</sup> / <sub>8</sub>   | 29<br>1 <sup>9</sup> / <sub>64</sub>  | 20<br>25 <sup>1</sup> / <sub>32</sub> | 49<br>1 <sup>15</sup> / <sub>16</sub> | 19<br>¾                               | 60<br>2 <sup>23</sup> / <sub>64</sub>   | 59<br>2.323           | 64<br>2 <sup>17</sup> / <sub>32</sub> | M16<br>⅝   | UKX11D1;H2311X<br>UKX11D1;HS2311<br>UKX11D1;HA2311<br>UKX11D1;HE2311XY |                                 |
| 55<br>2⅛                                                                    | UKFX12D1;H2312X<br>UKFX12D1;HS2312                                         | 187<br>7 <sup>3</sup> / <sub>8</sub>   | 149<br>5 <sup>55</sup> / <sub>64</sub> | 34<br>1 <sup>11</sup> / <sub>32</sub> | 21<br>13 <sup>1</sup> / <sub>16</sub> | 59<br>2 <sup>5</sup> / <sub>16</sub>  | 19<br>¾                               | 67<br>2 <sup>41</sup> / <sub>64</sub>   | 62<br>2.441           | 69<br>2 <sup>23</sup> / <sub>32</sub> | M16<br>⅝   | UKX12D1;H2312X<br>UKX12D1;HS2312                                       |                                 |
| 60<br>2 <sup>3</sup> / <sub>16</sub><br>2¼<br>2 <sup>3</sup> / <sub>8</sub> | UKFX13D1;H2313X<br>UKFX13D1;HA2313<br>UKFX13D1;HE2313X<br>UKFX13D1;HS2313X | 187<br>7 <sup>3</sup> / <sub>8</sub>   | 149<br>5 <sup>55</sup> / <sub>64</sub> | 34<br>1 <sup>11</sup> / <sub>32</sub> | 21<br>13 <sup>1</sup> / <sub>16</sub> | 59<br>2 <sup>5</sup> / <sub>16</sub>  | 19<br>¾                               | 69<br>2 <sup>23</sup> / <sub>32</sub>   | 65<br>2.559           | 74<br>2 <sup>29</sup> / <sub>32</sub> | M16<br>⅝   | UKX13D1;H2313X<br>UKX13D1;HA2313<br>UKX13D1;HE2313X<br>UKX13D1;HS2313X |                                 |

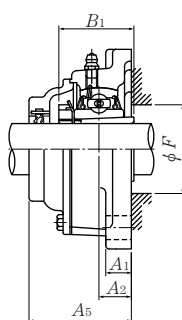
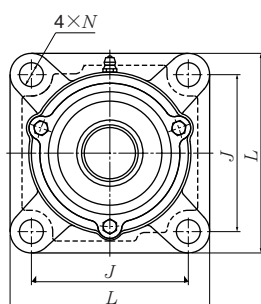
Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

2) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

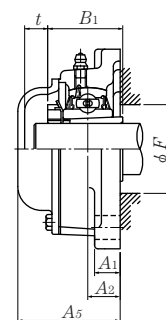
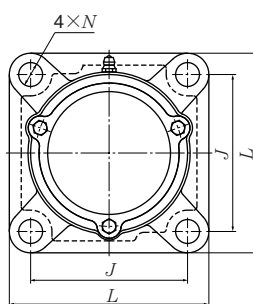
In this case the lock washer with the straight inner prong should be used.

3) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.

To distinguish it, a suffix "Y" is added.



Cast dust cover type (Open end)  
C-UKF...D1



Cast dust cover type (Close end)  
CM-UKF...D1

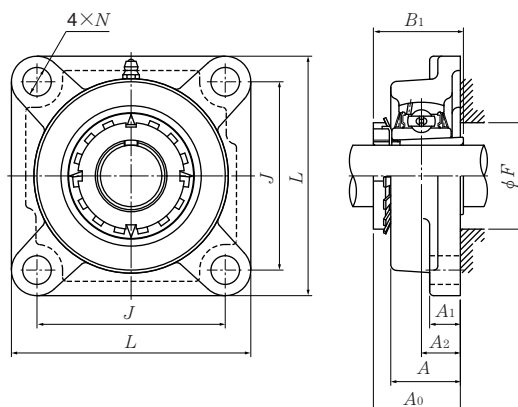
| Housing number <sup>1)</sup> | Unit number <sup>1) 2) 3) 4)</sup><br>cast dust cover type | Nominal dimensions |                  | Mass (approx.) |       |
|------------------------------|------------------------------------------------------------|--------------------|------------------|----------------|-------|
|                              |                                                            | mm                 | inch             | kg             | lb    |
|                              |                                                            | t                  | A <sub>5</sub>   | UK FX          | C(CM) |
| FX05D1                       | C(CM)-UKFX05D1;H2305X                                      | 13                 | 56               | 1.1            | 1.3   |
| FX05D1                       | C(CM)-UKFX05ED1;HE2305                                     | $\frac{33}{64}$    | $2\frac{7}{32}$  | 2.4            | 2.9   |
| FX06D1                       | C(CM)-UKFX06D1;H2306X                                      | 13                 | 59               | 1.6            | 1.8   |
| FX06D1                       | C(CM)-UKFX06SD1;HS2306                                     | $\frac{33}{64}$    | $2\frac{5}{16}$  | 3.5            | 4.0   |
| FX06D1                       | C(CM)-UKFX06ED1;HE2306X                                    |                    |                  |                |       |
| FX07D1                       | C(CM)-UKFX07D1;H2307X                                      | 15                 | 66               | 2.1            | 2.5   |
| FX07D1                       | C(CM)-UKFX07SD1;HS2307                                     | $\frac{19}{32}$    | $2\frac{19}{32}$ | 4.6            | 5.5   |
| FX08D1                       | C(CM)-UKFX08D1;H2308X                                      | 17                 | 70               | 2.5            | 2.9   |
| FX08D1                       | C(CM)-UKFX08ED1;HE2308X                                    | $2\frac{1}{32}$    | $2\frac{3}{4}$   | 5.5            | 6.4   |
| FX08D1                       | C(CM)-UKFX08SD1;HS2308X                                    |                    |                  |                |       |
| FX09D1                       | C(CM)-UKFX09D1;H2309X                                      | 18                 | 73               | 2.5            | 3.0   |
| FX09D1                       | C(CM)-UKFX09AD1;HA2309                                     |                    |                  |                |       |
| FX09D1                       | C(CM)-UKFX09ED1;HE2309X                                    | $\frac{23}{32}$    | $2\frac{7}{8}$   | 5.5            | 6.6   |
| FX09D1                       | C(CM)-UKFX09SD1;HS2309X                                    |                    |                  |                |       |
| FX10D1                       | C(CM)-UKFX10D1;H2310X                                      | 15                 | 76               | 3.8            | 4.4   |
| FX10D1                       | C(CM)-UKFX10SD1;HS2310                                     |                    |                  |                |       |
| FX10D1                       | C(CM)-UKFX10AD1;HA2310                                     | $\frac{19}{32}$    | 3                | 8.4            | 9.7   |
| FX10D1                       | C(CM)-UKFX10ED1;HE2310X                                    |                    |                  |                |       |
| FX11D1                       | C(CM)-UKFX11D1;H2311X                                      | 21                 | 86               | 4.7            | 5.4   |
| FX11D1                       | C(CM)-UKFX11SD1;HS2311                                     |                    |                  |                |       |
| FX11D1                       | C(CM)-UKFX11AD1;HA2311                                     | $\frac{13}{16}$    | $3\frac{3}{8}$   | 10             | 12    |
| FX11D1                       | C(CM)-UKFX11ED1;HE2311XY                                   |                    |                  |                |       |
| FX12D1                       | C(CM)-UKFX12D1;H2312X                                      | 22                 | 94               | 6.4            | 7.2   |
| FX12D1                       | C(CM)-UKFX12SD1;HS2312                                     | $\frac{7}{8}$      | $3\frac{11}{16}$ | 14             | 16    |
| FX13D1                       | C(CM)-UKFX13D1;H2313X                                      | 26                 | 101              | 6.4            | 7.6   |
| FX13D1                       | C(CM)-UKFX13AD1;HA2313                                     |                    |                  |                |       |
| FX13D1                       | C(CM)-UKFX13ED1;HE2313X                                    | $1\frac{1}{32}$    | $3\frac{31}{32}$ | 14             | 17    |
| FX13D1                       | C(CM)-UKFX13SD1;HS2313X                                    |                    |                  |                |       |

Remarks: 4) If the inch series housing units with dust cover are ordered with a closed end, the suffixes E, S or A are not included.

Example: CM-UKFX05D1; HE2305

Note: Please refer to page 36 for size of grease fitting.

## Square flanged units cast housing Adapter type



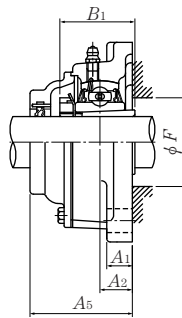
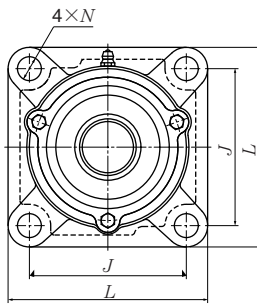
| Shaft<br>dia.                                                          | Unit number <sup>1) 2) 3)</sup>                         | Nominal dimensions                    |                                        |                                       |                                      |                                       |                         |                                         |                       |                                       | Bolt<br>size           | Bearing number <sup>2) 3)</sup>                      |
|------------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------|----------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-------------------------|-----------------------------------------|-----------------------|---------------------------------------|------------------------|------------------------------------------------------|
|                                                                        |                                                         | <i>L</i>                              | <i>J</i>                               | <i>A</i> <sub>2</sub>                 | <i>A</i> <sub>1</sub>                | <i>A</i>                              | <i>N</i>                | <i>A</i> <sub>0</sub>                   | <i>B</i> <sub>1</sub> | <i>F</i><br>min.                      |                        |                                                      |
| mm<br>inch                                                             |                                                         |                                       |                                        |                                       | mm                                   | inch                                  |                         |                                         |                       |                                       | mm<br>inch             |                                                      |
| 65<br>2 <sup>7</sup> / <sub>16</sub><br>2 <sup>1</sup> / <sub>2</sub>  | UKFX15D1;H2315X<br>UKFX15D1;HA2315<br>UKFX15D1;HE2315X  | 197<br>7 <sup>3</sup> / <sub>4</sub>  | 152<br>5 <sup>63</sup> / <sub>64</sub> | 40<br>1 <sup>37</sup> / <sub>64</sub> | 24<br>1 <sup>5</sup> / <sub>16</sub> | 68<br>2 <sup>11</sup> / <sub>16</sub> | 23<br>29/ <sub>32</sub> | 77.5<br>3 <sup>3</sup> / <sub>64</sub>  | 73<br>2.874           | 84<br>3 <sup>5</sup> / <sub>16</sub>  | M20<br>3/ <sub>4</sub> | UKX15D1;H2315X<br>UKX15D1;HA2315<br>UKX15D1;HE2315X  |
| 70<br>2 <sup>11</sup> / <sub>16</sub><br>2 <sup>3</sup> / <sub>4</sub> | UKFX16D1;H2316X<br>UKFX16D1;HA2316<br>UKFX16D1;HE2316X  | 214<br>8 <sup>7</sup> / <sub>16</sub> | 171<br>6 <sup>47</sup> / <sub>64</sub> | 40<br>1 <sup>37</sup> / <sub>64</sub> | 24<br>1 <sup>5</sup> / <sub>16</sub> | 70<br>2 <sup>3</sup> / <sub>4</sub>   | 23<br>29/ <sub>32</sub> | 80<br>3 <sup>5</sup> / <sub>32</sub>    | 78<br>3.071           | 90<br>3 <sup>17</sup> / <sub>32</sub> | M20<br>3/ <sub>4</sub> | UKX16D1;H2316X<br>UKX16D1;HA2316<br>UKX16D1;HE2316X  |
| 75<br>2 <sup>15</sup> / <sub>16</sub><br>3                             | UKFX17D1;H2317X<br>UKFX17D1;HA2317X<br>UKFX17D1;HE2317X | 214<br>8 <sup>7</sup> / <sub>16</sub> | 171<br>6 <sup>47</sup> / <sub>64</sub> | 40<br>1 <sup>37</sup> / <sub>64</sub> | 24<br>1 <sup>5</sup> / <sub>16</sub> | 70<br>2 <sup>3</sup> / <sub>4</sub>   | 23<br>29/ <sub>32</sub> | 81.5<br>3 <sup>13</sup> / <sub>64</sub> | 82<br>3.228           | 95<br>3 <sup>3</sup> / <sub>4</sub>   | M20<br>3/ <sub>4</sub> | UKX17D1;H2317X<br>UKX17D1;HA2317X<br>UKX17D1;HE2317X |
| 80<br>3 <sup>3</sup> / <sub>16</sub>                                   | UKFX18D1;H2318X<br>UKFX18D1;HA2318X                     | 214<br>8 <sup>7</sup> / <sub>16</sub> | 171<br>6 <sup>47</sup> / <sub>64</sub> | 45<br>1 <sup>49</sup> / <sub>64</sub> | 24<br>1 <sup>5</sup> / <sub>16</sub> | 76<br>3                               | 23<br>29/ <sub>32</sub> | 87.5<br>3 <sup>7</sup> / <sub>16</sub>  | 86<br>3.386           | 102<br>4 <sup>1</sup> / <sub>32</sub> | M20<br>3/ <sub>4</sub> | UKX18D1;H2318X<br>UKX18D1;HA2318X                    |
| 90                                                                     | UKFX20D1;H2320X                                         | 268                                   | 211                                    | 59                                    | 31                                   | 97                                    | 31                      | 107.5                                   | 97                    | 112                                   | M27                    | UKX20D1;H2320X                                       |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

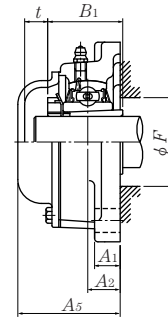
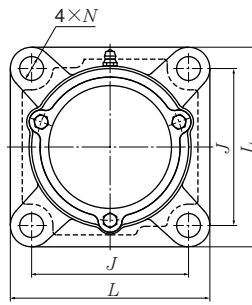
2) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

In this case the lock washer with the straight inner prong should be used.

3) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.  
To distinguish it, a suffix "Y" is added.



Cast dust cover type (Open end)  
C-UKF...D1



Cast dust cover type (Close end)  
CM-UKF...D1

| Housing<br>number <sup>1)</sup> | Unit number <sup>1) 2) 3) 4)</sup><br>cast dust cover type | Nominal<br>dimensions           |                                 | Mass<br>(approx.) |       |
|---------------------------------|------------------------------------------------------------|---------------------------------|---------------------------------|-------------------|-------|
|                                 |                                                            | mm                              | inch                            | kg                | lb    |
|                                 |                                                            | t                               | A <sub>5</sub>                  | UK FX             | C(CM) |
| FX15D1                          | C(CM)-UKFX15D1;H2315X                                      | 28                              | 112                             | 8.7               | 10    |
| FX15D1                          | C(CM)-UKFX15AD1;HA2315                                     | 1 <sup>7</sup> / <sub>64</sub>  | 4 <sup>13</sup> / <sub>32</sub> | 19                | 22    |
| FX15D1                          | C(CM)-UKFX15ED1;HE2315X                                    |                                 |                                 |                   |       |
| FX16D1                          | C(CM)-UKFX16D1;H2316X                                      | 32                              | 118                             | 11                | 12    |
| FX16D1                          | C(CM)-UKFX16AD1;HA2316                                     | 1 <sup>1</sup> / <sub>4</sub>   | 4 <sup>21</sup> / <sub>32</sub> | 24                | 26    |
| FX16D1                          | C(CM)-UKFX16ED1;HE2316X                                    |                                 |                                 |                   |       |
| FX17D1                          | C(CM)-UKFX17D1;H2317X                                      | 34                              | 122                             | 12                | 14    |
| FX17D1                          | C(CM)-UKFX17AD1;HA2317X                                    | 1 <sup>11</sup> / <sub>32</sub> | 4 <sup>13</sup> / <sub>16</sub> | 26                | 31    |
| FX17D1                          | C(CM)-UKFX17ED1;HE2317X                                    |                                 |                                 |                   |       |
| FX18D1                          | C(CM)-UKFX18D1;H2318X                                      | 41                              | 135                             | 12                | 14    |
| FX18D1                          | C(CM)-UKFX18AD1;HA2318X                                    | 1 <sup>39</sup> / <sub>64</sub> | 5 <sup>5</sup> / <sub>16</sub>  | 26                | 31    |
| FX20D1                          | C(CM)-UKFX20D1;H2320X                                      | 43                              | 146.5                           | 20                | 22    |

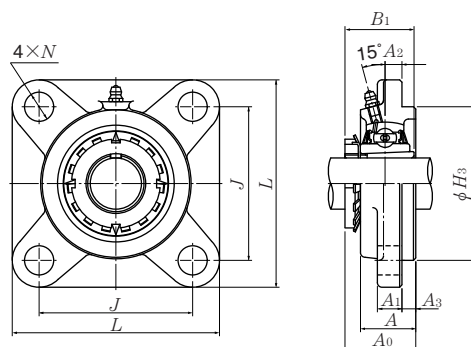
Remarks: 4) If the inch series housing units with dust cover are ordered with a closed end, the suffixes E, S or A are not included.

Example: CM-UKFX05D1; HE2305

Note: Please refer to page 36 for size of grease fitting.



# Square flanged units cast housing w/spigot joint Adapter type



| Shaft<br>dia.        | Unit number <sup>1) 2) 3)</sup>                                                | Nominal dimensions                     |                                        |                        |                        |                        |                        |                                       |                       |                                         |                       | Bolt<br>size | Bearing number <sup>2) 3)</sup>                                        |
|----------------------|--------------------------------------------------------------------------------|----------------------------------------|----------------------------------------|------------------------|------------------------|------------------------|------------------------|---------------------------------------|-----------------------|-----------------------------------------|-----------------------|--------------|------------------------------------------------------------------------|
| mm<br>inch           |                                                                                | mm                                     |                                        |                        |                        |                        | inch                   |                                       |                       |                                         |                       | mm<br>inch   |                                                                        |
|                      |                                                                                | <i>L</i>                               | <i>J</i>                               | <i>A</i> <sub>2</sub>  | <i>N</i>               | <i>A</i> <sub>3</sub>  | <i>A</i> <sub>1</sub>  | <i>A</i>                              | <i>H</i> <sub>3</sub> | <i>A</i> <sub>0</sub>                   | <i>B</i> <sub>1</sub> |              |                                                                        |
| 20<br>¾              | UKFS305D1;H2305X<br>UKFS305D1;HE2305                                           | 110<br>4 <sup>11</sup> / <sub>32</sub> | 80<br>3 <sup>5</sup> / <sub>32</sub>   | 9<br>23 <sub>64</sub>  | 16<br>5 <sub>8</sub>   | 7<br>9 <sub>32</sub>   | 13<br>½                | 29<br>1 <sup>9</sup> / <sub>64</sub>  | 80<br>3.1496          | 37<br>1 <sup>29</sup> / <sub>64</sub>   | 35<br>1.378           | M14<br>½     | UK305D1;H2305X<br>UK305D1;HE2305                                       |
| 25<br>7⁄8<br>1       | UKFS306D1;H2306X<br>UKFS306D1;HS2306<br>UKFS306D1;HE2306X                      | 125<br>4 <sup>29</sup> / <sub>32</sub> | 95<br>3 <sup>47</sup> / <sub>64</sub>  | 10<br>25 <sub>64</sub> | 16<br>5 <sub>8</sub>   | 8<br>5 <sub>16</sub>   | 15<br>19 <sub>32</sub> | 32<br>1 <sup>17</sup> / <sub>64</sub> | 90<br>3.5433          | 40.5<br>1 <sup>19</sup> / <sub>32</sub> | 38<br>1.496           | M14<br>½     | UK306D1;H2306X<br>UK306D1;HS2306<br>UK306D1;HE2306X                    |
| 30<br>1⅛             | UKFS307D1;H2307X<br>UKFS307D1;HS2307                                           | 135<br>5 <sup>5</sup> / <sub>16</sub>  | 100<br>3 <sup>15</sup> / <sub>16</sub> | 11<br>7 <sub>16</sub>  | 19<br>¾                | 9<br>23 <sub>64</sub>  | 16<br>5 <sub>8</sub>   | 36<br>1 <sup>13</sup> / <sub>32</sub> | 100<br>3.9370         | 45.5<br>1 <sup>51</sup> / <sub>64</sub> | 43<br>1.693           | M16<br>5⁄8   | UK307D1;H2307X<br>UK307D1;HS2307                                       |
| 35<br>1¼<br>1⅜       | UKFS308D1;H2308X<br>UKFS308D1;HE2308X<br>UKFS308D1;HS2308X                     | 150<br>5 <sup>29</sup> / <sub>32</sub> | 112<br>4 <sup>13</sup> / <sub>32</sub> | 13<br>33 <sub>64</sub> | 19<br>¾                | 10<br>25 <sub>64</sub> | 17<br>21 <sub>32</sub> | 40<br>1 <sup>9</sup> / <sub>16</sub>  | 115<br>4.5276         | 50<br>1 <sup>31</sup> / <sub>32</sub>   | 46<br>1.811           | M16<br>5⁄8   | UK308D1;H2308X<br>UK308D1;HE2308X<br>UK308D1;HS2308X                   |
| 40<br>1⅞<br>1½<br>1⅝ | UKFS309D1;H2309X<br>UKFS309D1;HA2309<br>UKFS309D1;HE2309X<br>UKFS309D1;HS2309X | 160<br>6 <sup>5</sup> / <sub>16</sub>  | 125<br>4 <sup>59</sup> / <sub>64</sub> | 14<br>35 <sub>64</sub> | 19<br>¾                | 11<br>7 <sub>16</sub>  | 18<br>23 <sub>32</sub> | 44<br>1 <sup>47</sup> / <sub>64</sub> | 125<br>4.9213         | 54.5<br>2 <sup>9</sup> / <sub>64</sub>  | 50<br>1.969           | M16<br>5⁄8   | UK309D1;H2309X<br>UK309D1;HA2309<br>UK309D1;HE2309X<br>UK309D1;HS2309X |
| 45<br>1⅝<br>1⅞<br>1¾ | UKFS310D1;H2310X<br>UKFS310D1;HS2310<br>UKFS310D1;HA2310<br>UKFS310D1;HE2310X  | 175<br>6 <sup>7</sup> / <sub>8</sub>   | 132<br>5 <sup>13</sup> / <sub>64</sub> | 16<br>5 <sub>8</sub>   | 23<br>29 <sub>32</sub> | 12<br>15 <sub>32</sub> | 19<br>¾                | 48<br>1 <sup>57</sup> / <sub>64</sub> | 140<br>5.5118         | 60.5<br>2 <sup>3</sup> / <sub>8</sub>   | 55<br>2.165           | M20<br>¾     | UK310D1;H2310X<br>UK310D1;HS2310<br>UK310D1;HA2310<br>UK310D1;HE2310X  |
| 50<br>1⅞<br>1⅝<br>2  | UKFS311D1;H2311X<br>UKFS311D1;HS2311<br>UKFS311D1;HA2311<br>UKFS311D1;HE2311XY | 185<br>7 <sup>9</sup> / <sub>32</sub>  | 140<br>5 <sup>33</sup> / <sub>64</sub> | 17<br>43 <sub>64</sub> | 23<br>29 <sub>32</sub> | 13<br>33 <sub>64</sub> | 20<br>25 <sub>32</sub> | 52<br>2 <sup>3</sup> / <sub>64</sub>  | 150<br>5.9055         | 64<br>2 <sup>33</sup> / <sub>64</sub>   | 59<br>2.323           | M20<br>¾     | UK311D1;H2311X<br>UK311D1;HS2311<br>UK311D1;HA2311<br>UK311D1;HE2311XY |
| 55<br>2⅛             | UKFS312D1;H2312X<br>UKFS312D1;HS2312                                           | 195<br>7 <sup>11</sup> / <sub>16</sub> | 150<br>5 <sup>29</sup> / <sub>32</sub> | 19<br>¾                | 23<br>29 <sub>32</sub> | 14<br>35 <sub>64</sub> | 22<br>7 <sub>8</sub>   | 56<br>2 <sup>13</sup> / <sub>64</sub> | 160<br>6.2992         | 69.5<br>2 <sup>47</sup> / <sub>64</sub> | 62<br>2.441           | M20<br>¾     | UK312D1;H2312X<br>UK312D1;HS2312                                       |
| 60<br>2⅜<br>2¼<br>2⅜ | UKFS313D1;H2313X<br>UKFS313D1;HA2313<br>UKFS313D1;HE2313X<br>UKFS313D1;HS2313X | 208<br>8 <sup>3</sup> / <sub>16</sub>  | 166<br>6 <sup>17</sup> / <sub>32</sub> | 15<br>19 <sub>32</sub> | 23<br>29 <sub>32</sub> | 18<br>45 <sub>64</sub> | 22<br>7 <sub>8</sub>   | 58<br>2 <sup>9</sup> / <sub>32</sub>  | 175<br>6.8898         | 71.5<br>2 <sup>13</sup> / <sub>16</sub> | 65<br>2.559           | M20<br>¾     | UK313D1;H2313X<br>UK313D1;HA2313<br>UK313D1;HE2313X<br>UK313D1;HS2313X |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

2) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

In this case the lock washer with the straight inner prong should be used.

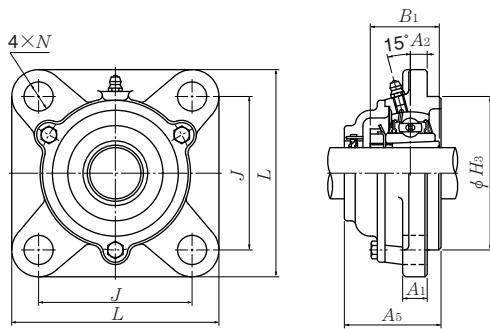
3) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.

To distinguish it, a suffix "Y" is added.

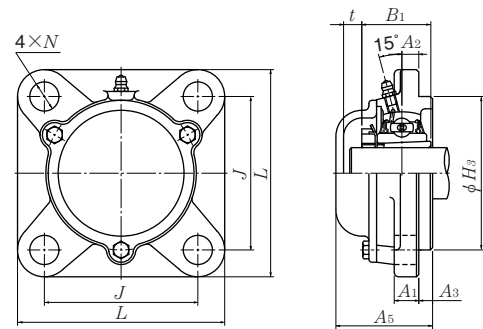
4) If the inch series housing units with dust cover are ordered with a closed end, the suffixes E, S or A are not included.

Example: CM-UKFS305D1; HE2305

Note: Please refer to page 36 for size of grease fitting.



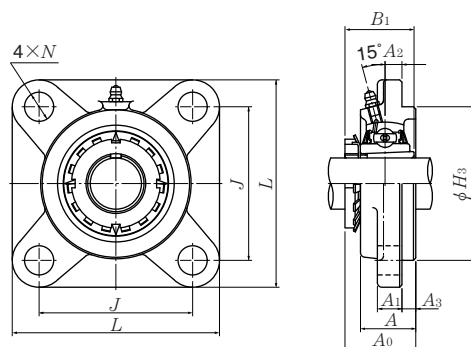
Cast dust cover type (Open end)  
C-UKFS...D1



Cast dust cover type (Close end)  
CM-UKFS...D1

| Housing<br>number | Unit number <sup>1) 2) 3) 4)</sup><br>cast dust cover type | Nominal<br>dimensions |                  | Mass<br>(approx.) |       |
|-------------------|------------------------------------------------------------|-----------------------|------------------|-------------------|-------|
|                   |                                                            | mm                    | inch             | kg                | lb    |
|                   |                                                            | t                     | A <sub>5</sub>   | UKFS              | C(CM) |
| FS305D1           | C(CM)-UKFS305D1;H2305X                                     | 14                    | 56               | 1.2               | 1.5   |
| FS305D1           | C(CM)-UKFS305ED1;HE2305                                    | $\frac{35}{64}$       | $2\frac{13}{64}$ | 2.7               | 3.3   |
| FS306D1           | C(CM)-UKFS306D1;H2306X                                     | 14                    | 60               | 1.8               | 2.2   |
| FS306D1           | C(CM)-UKFS306SD1;HS2306                                    | $\frac{35}{64}$       | $2\frac{23}{64}$ | 4.0               | 4.9   |
| FS306D1           | C(CM)-UKFS306ED1;HE2306X                                   |                       |                  |                   |       |
| FS307D1           | C(CM)-UKFS307D1;H2307X                                     | 16                    | 67               | 2.3               | 2.9   |
| FS307D1           | C(CM)-UKFS307SD1;HS2307                                    | $\frac{5}{8}$         | $2\frac{41}{64}$ | 5.1               | 6.4   |
| FS308D1           | C(CM)-UKFS308D1;H2308X                                     | 20                    | 76               | 3.2               | 3.7   |
| FS308D1           | C(CM)-UKFS308ED1;HE2308X                                   | $\frac{25}{32}$       | $2\frac{63}{64}$ | 7.1               | 8.2   |
| FS308D1           | C(CM)-UKFS308SD1;HS2308X                                   |                       |                  |                   |       |
| FS309D1           | C(CM)-UKFS309D1;H2309X                                     | 19                    | 80               | 3.8               | 4.7   |
| FS309D1           | C(CM)-UKFS309AD1;HA2309                                    |                       |                  |                   |       |
| FS309D1           | C(CM)-UKFS309ED1;HE2309X                                   | $\frac{3}{4}$         | $3\frac{5}{32}$  | 8.4               | 10    |
| FS309D1           | C(CM)-UKFS309SD1;HS2309X                                   |                       |                  |                   |       |
| FS310D1           | C(CM)-UKFS310D1;H2310X                                     | 21                    | 88               | 5.1               | 6.3   |
| FS310D1           | C(CM)-UKFS310SD1;HS2310                                    |                       |                  |                   |       |
| FS310D1           | C(CM)-UKFS310AD1;HA2310                                    | $\frac{13}{16}$       | $3\frac{15}{32}$ | 11                | 14    |
| FS310D1           | C(CM)-UKFS310ED1;HE2310X                                   |                       |                  |                   |       |
| FS311D1           | C(CM)-UKFS311D1;H2311X                                     | 23                    | 93               | 5.9               | 7.3   |
| FS311D1           | C(CM)-UKFS311SD1;HS2311                                    |                       |                  |                   |       |
| FS311D1           | C(CM)-UKFS311AD1;HA2311                                    | $\frac{29}{32}$       | $3\frac{21}{32}$ | 13                | 16    |
| FS311D1           | C(CM)-UKFS311ED1;HE2311XY                                  |                       |                  |                   |       |
| FS312D1           | C(CM)-UKFS312D1;H2312X                                     | 24                    | 100              | 7.0               | 8.4   |
| FS312D1           | C(CM)-UKFS312SD1;HS2312                                    | $\frac{15}{16}$       | $3\frac{15}{16}$ | 15                | 19    |
| FS313D1           | C(CM)-UKFS313D1;H2313X                                     | 25                    | 103              | 8.4               | 10    |
| FS313D1           | C(CM)-UKFS313AD1;HA2313                                    |                       |                  |                   |       |
| FS313D1           | C(CM)-UKFS313ED1;HE2313X                                   | $\frac{63}{64}$       | $4\frac{1}{16}$  | 19                | 22    |
| FS313D1           | C(CM)-UKFS313SD1;HS2313X                                   |                       |                  |                   |       |

# Square flanged units cast housing w/spigot joint Adapter type



| Shaft<br>dia.                                                          | Unit number <sup>1) 2) 3)</sup>                            | Nominal dimensions                      |                                        |                                       |                                       |                                       |                                       |                                       |                       |                                          |                       | Bolt<br>size                         | Bearing number <sup>2) 3)</sup>                      |
|------------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|-----------------------|------------------------------------------|-----------------------|--------------------------------------|------------------------------------------------------|
|                                                                        |                                                            | mm                                      |                                        |                                       |                                       |                                       | inch                                  |                                       |                       |                                          |                       |                                      |                                                      |
|                                                                        |                                                            | <i>L</i>                                | <i>J</i>                               | <i>A</i> <sub>2</sub>                 | <i>N</i>                              | <i>A</i> <sub>3</sub>                 | <i>A</i> <sub>1</sub>                 | <i>A</i>                              | <i>H</i> <sub>3</sub> | <i>A</i> <sub>0</sub>                    | <i>B</i> <sub>1</sub> |                                      |                                                      |
| mm<br>inch                                                             |                                                            |                                         |                                        |                                       |                                       |                                       |                                       |                                       |                       |                                          |                       | mm<br>inch                           |                                                      |
| 65<br>2 <sup>7</sup> / <sub>16</sub><br>2 <sup>1</sup> / <sub>2</sub>  | UKFS315D1;H2315X<br>UKFS315D1;HA2315<br>UKFS315D1;HE2315X  | 236<br>9 <sup>9</sup> / <sub>32</sub>   | 184<br>7 <sup>1</sup> / <sub>4</sub>   | 21<br>53 <sup>1</sup> / <sub>64</sub> | 25<br>63 <sup>1</sup> / <sub>64</sub> | 18<br>45 <sup>1</sup> / <sub>64</sub> | 25<br>31 <sup>1</sup> / <sub>32</sub> | 66<br>2 <sup>19</sup> / <sub>32</sub> | 200<br>7.8740         | 81.5<br>3 <sup>13</sup> / <sub>64</sub>  | 73<br>2.874           | M22<br>7 <sup>7</sup> / <sub>8</sub> | UK315D1;H2315X<br>UK315D1;HA2315<br>UK315D1;HE2315X  |
| 70<br>2 <sup>11</sup> / <sub>16</sub><br>2 <sup>3</sup> / <sub>4</sub> | UKFS316D1;H2316X<br>UKFS316D1;HA2316<br>UKFS316D1;HE2316X  | 250<br>9 <sup>27</sup> / <sub>32</sub>  | 196<br>7 <sup>23</sup> / <sub>32</sub> | 18<br>45 <sup>1</sup> / <sub>64</sub> | 31<br>1 <sup>7</sup> / <sub>32</sub>  | 20<br>25 <sup>1</sup> / <sub>32</sub> | 27<br>1 <sup>1</sup> / <sub>16</sub>  | 68<br>2 <sup>43</sup> / <sub>64</sub> | 210<br>8.2677         | 84<br>3 <sup>5</sup> / <sub>16</sub>     | 78<br>3.071           | M27<br>1                             | UK316D1;H2316X<br>UK316D1;HA2316<br>UK316D1;HE2316X  |
| 75<br>2 <sup>15</sup> / <sub>16</sub><br>3                             | UKFS317D1;H2317X<br>UKFS317D1;HA2317X<br>UKFS317D1;HE2317X | 260<br>10 <sup>1</sup> / <sub>4</sub>   | 204<br>8 <sup>1</sup> / <sub>32</sub>  | 24<br>15 <sup>1</sup> / <sub>16</sub> | 31<br>1 <sup>7</sup> / <sub>32</sub>  | 20<br>25 <sup>1</sup> / <sub>32</sub> | 27<br>1 <sup>1</sup> / <sub>16</sub>  | 74<br>2 <sup>29</sup> / <sub>32</sub> | 220<br>8.6614         | 92<br>3 <sup>5</sup> / <sub>8</sub>      | 82<br>3.228           | M27<br>1                             | UK317D1;H2317X<br>UK317D1;HA2317X<br>UK317D1;HE2317X |
| 80<br>3 <sup>3</sup> / <sub>16</sub>                                   | UKFS318D1;H2318X<br>UKFS318D1;HA2318X                      | 280<br>11 <sup>1</sup> / <sub>32</sub>  | 216<br>8 <sup>1</sup> / <sub>2</sub>   | 24<br>15 <sup>1</sup> / <sub>16</sub> | 35<br>1 <sup>3</sup> / <sub>8</sub>   | 20<br>25 <sup>1</sup> / <sub>32</sub> | 30<br>1 <sup>3</sup> / <sub>16</sub>  | 76<br>2 <sup>63</sup> / <sub>64</sub> | 240<br>9.4488         | 94<br>3 <sup>45</sup> / <sub>64</sub>    | 86<br>3.386           | M30<br>1 <sup>1</sup> / <sub>8</sub> | UK318D1;H2318X<br>UK318D1;HA2318X                    |
| 85<br>3 <sup>1</sup> / <sub>4</sub>                                    | UKFS319D1;H2319X<br>UKFS319D1;HE2319X                      | 290<br>11 <sup>13</sup> / <sub>32</sub> | 228<br>8 <sup>31</sup> / <sub>32</sub> | 39<br>1 <sup>17</sup> / <sub>32</sub> | 35<br>1 <sup>3</sup> / <sub>8</sub>   | 20<br>25 <sup>1</sup> / <sub>32</sub> | 30<br>1 <sup>3</sup> / <sub>16</sub>  | 94<br>3 <sup>45</sup> / <sub>64</sub> | 250<br>9.8425         | 111.5<br>4 <sup>25</sup> / <sub>64</sub> | 90<br>3.543           | M30<br>1 <sup>1</sup> / <sub>8</sub> | UK319D1;H2319X<br>UK319D1;HE2319X                    |
| 90<br>3 <sup>7</sup> / <sub>16</sub><br>3 <sup>1</sup> / <sub>2</sub>  | UKFS320D1;H2320X<br>UKFS320D1;HA2320<br>UKFS320D1;HE2320X  | 310<br>12 <sup>7</sup> / <sub>32</sub>  | 242<br>9 <sup>17</sup> / <sub>32</sub> | 39<br>1 <sup>17</sup> / <sub>32</sub> | 38<br>1 <sup>1</sup> / <sub>2</sub>   | 20<br>25 <sup>1</sup> / <sub>32</sub> | 32<br>1 <sup>1</sup> / <sub>4</sub>   | 94<br>3 <sup>45</sup> / <sub>64</sub> | 260<br>10.2362        | 115.5<br>4 <sup>35</sup> / <sub>64</sub> | 97<br>3.819           | M33<br>1 <sup>1</sup> / <sub>4</sub> | UK320D1;H2320X<br>UK320D1;HA2320<br>UK320D1;HE2320X  |
| 100                                                                    | UKFS322D1;H2322X                                           | 340                                     | 266                                    | 35                                    | 41                                    | 25                                    | 35                                    | 96                                    | 300                   | 121                                      | 105                   | M36                                  | UK322D1;H2322X                                       |
| 110                                                                    | UKFS324D1;H2324X                                           | 370                                     | 290                                    | 35                                    | 41                                    | 30                                    | 40                                    | 110                                   | 330                   | 130                                      | 112                   | M36                                  | UK324D1;H2324X                                       |
| 115                                                                    | UKFS326D1;H2326                                            | 410                                     | 320                                    | 35                                    | 41                                    | 30                                    | 45                                    | 115                                   | 360                   | 133                                      | 121                   | M36                                  | UK326D1;H2326                                        |
| 125                                                                    | UKFS328D1;H2328                                            | 450                                     | 350                                    | 45                                    | 41                                    | 30                                    | 55                                    | 125                                   | 400                   | 146.5                                    | 131                   | M36                                  | UK328D1;H2328                                        |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

2) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

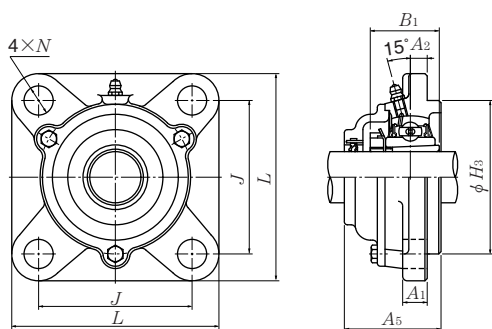
In this case the lock washer with the straight inner prong should be used.

3) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve. To distinguish it, a suffix "Y" is added.

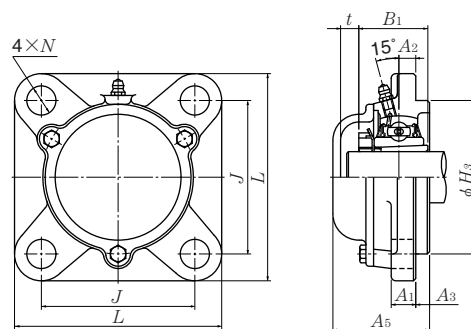
4) If the inch series housing units with dust cover are ordered with a closed end, the suffixes E, S or A are not included.

Example: CM-UKFS305D1; HE2305

Note: Please refer to page 36 for size of grease fitting.



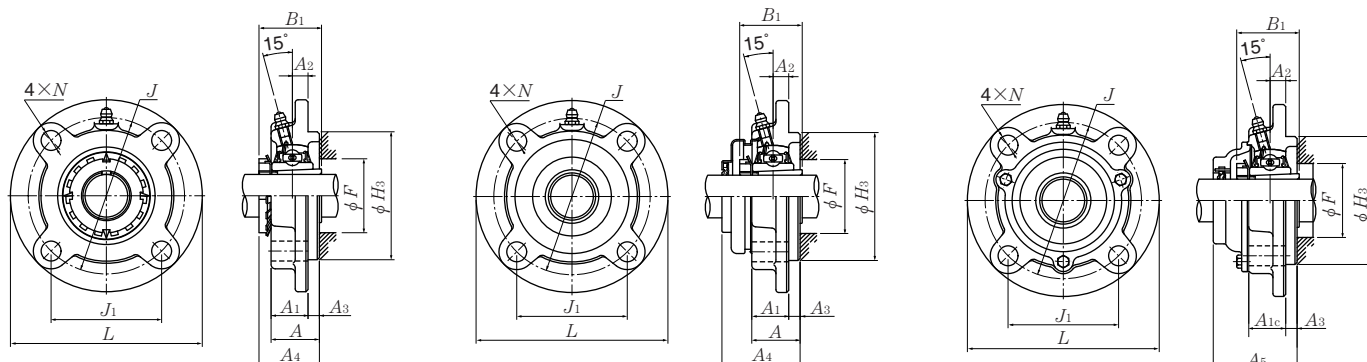
Cast dust cover type (Open end)  
C-UKFS...D1



Cast dust cover type (Close end)  
CM-UKFS...D1

| Housing<br>number | Unit number 1) 2) 3) 4)<br>cast dust cover type | Nominal<br>dimensions |                | Mass<br>(approx.) |       |
|-------------------|-------------------------------------------------|-----------------------|----------------|-------------------|-------|
|                   |                                                 | mm                    | inch           | kg                | lb    |
|                   |                                                 | t                     | A <sub>5</sub> | UKFS              | C(CM) |
| FS315D1           | C(CM)-UKFS315D1;H2315X                          | 26                    | 114            | 12                | 14    |
| FS315D1           | C(CM)-UKFS315AD1;HA2315                         | 1 1/32                | 4 31/64        | 26                | 31    |
| FS315D1           | C(CM)-UKFS315ED1;HE2315X                        |                       |                |                   |       |
| FS316D1           | C(CM)-UKFS316D1;H2316X                          | 25                    | 116            | 15                | 17    |
| FS316D1           | C(CM)-UKFS316AD1;HA2316                         | 63/64                 | 4 9/16         | 33                | 37    |
| FS316D1           | C(CM)-UKFS316ED1;HE2316X                        |                       |                |                   |       |
| FS317D1           | C(CM)-UKFS317D1;H2317X                          | 29                    | 129            | 17                | 20    |
| FS317D1           | C(CM)-UKFS317AD1;HA2317X                        | 1 5/32                | 5 5/64         | 37                | 44    |
| FS317D1           | C(CM)-UKFS317ED1;HE2317X                        |                       |                |                   |       |
| FS318D1           | C(CM)-UKFS318D1;H2318X                          | 27                    | 129            | 21                | 24    |
| FS318D1           | C(CM)-UKFS318AD1;HA2318X                        | 1 1/16                | 5 5/64         | 46                | 53    |
| FS319D1           | C(CM)-UKFS319D1;H2319X                          | 29                    | 149            | 24                | 29    |
| FS319D1           | C(CM)-UKFS319ED1;HE2319X                        | 1 5/32                | 5 55/64        | 53                | 64    |
| FS320D1           | C(CM)-UKFS320D1;H2320X                          | 29                    | 154            | 29                | 34    |
| FS320D1           | C(CM)-UKFS320AD1;HA2320                         | 1 5/32                | 6 1/16         | 64                | 75    |
| FS320D1           | C(CM)-UKFS320ED1;HE2320X                        |                       |                |                   |       |
| FS322D1           | C(CM)-UKFS322D1;H2322X                          | 30                    | 160            | 38                | 46    |
| FS324D1           | C(CM)-UKFS324D1;H2324X                          | 32                    | 172            | 51                | 59    |
| FS326D1           | C(CM)-UKFS326D1;H2326                           | 35                    | 178            | 69                | 79    |
| FS328D1           | C(CM)-UKFS328D1;H2328                           | 35                    | 192            | 98                | 110   |

# Round flanged units cast housing w/spigot joint Adapter type



Press steel dust cover type (Open end)  
S-UKFC...D1

Cast dust cover type (Open end)  
C-UKFC...D1

| Shaft<br>dia.<br><br>mm<br>inch     | Unit number <sup>1) 2) 3)</sup>                                                | Nominal dimensions |                |                        |                       |             |                       |                       |                        |               |                       |                       |                       |                  |             | Bolt<br>size<br><br>mm<br>inch                                         | Bearing <sup>2) 3)</sup><br>number |
|-------------------------------------|--------------------------------------------------------------------------------|--------------------|----------------|------------------------|-----------------------|-------------|-----------------------|-----------------------|------------------------|---------------|-----------------------|-----------------------|-----------------------|------------------|-------------|------------------------------------------------------------------------|------------------------------------|
|                                     |                                                                                | mm                 |                |                        |                       |             |                       |                       | inch                   |               |                       |                       |                       |                  |             |                                                                        |                                    |
|                                     |                                                                                | <i>L</i>           | <i>J</i>       | <i>(J<sub>1</sub>)</i> | <i>A</i> <sub>2</sub> | <i>N</i>    | <i>A</i> <sub>3</sub> | <i>A</i> <sub>1</sub> | <i>A</i> <sub>1C</sub> | <i>A</i>      | <i>H</i> <sub>3</sub> | <i>A</i> <sub>0</sub> | <i>B</i> <sub>1</sub> | <i>F</i><br>min. |             |                                                                        |                                    |
| 20<br><br>3/4                       | UKFC205D1;H2305X<br>UKFC205D1;HE2305                                           | 115<br>4 17/32     | 90<br>3 35/64  | 63.6<br>2 1/2          | 10<br>25/64           | 12<br>15/32 | 6<br>15/64            | 21<br>13/16           | 22<br>7/8              | 27<br>1 1/16  | 70<br>2.7559          | 35.5<br>1 25/64       | 35<br>1.378           | 30<br>1 3/16     | M10<br>3/8  | UK205D1;H2305X<br>UK205D1;HE2305                                       |                                    |
| 25<br><br>7/8<br>1                  | UKFC206D1;H2306X<br>UKFC206D1;HS2306<br>UKFC206D1;HE2306X                      | 125<br>4 29/32     | 100<br>3 15/16 | 70.7<br>2 25/32        | 10<br>25/64           | 12<br>15/32 | 8<br>5/16             | 23<br>29/32           | 24.5<br>3 1/32         | 31<br>1 7/32  | 80<br>3.1496          | 39<br>1 17/32         | 38<br>1.496           | 36<br>1 13/32    | M10<br>3/8  | UK206D1;H2306X<br>UK206D1;HS2306<br>UK206D1;HE2306X                    |                                    |
| 30<br><br>1 1/8                     | UKFC207D1;H2307X<br>UKFC207D1;HS2307                                           | 135<br>5 5/16      | 110<br>4 21/64 | 77.8<br>3 1/16         | 11<br>7/16            | 14<br>35/64 | 8<br>5/16             | 26<br>1 1/32          | 26<br>1 1/32           | 34<br>1 11/32 | 90<br>3.5433          | 42.5<br>1 43/64       | 43<br>1.693           | 40<br>1 9/16     | M12<br>7/16 | UK207D1;H2307X<br>UK207D1;HS2307                                       |                                    |
| 35<br><br>1 1/4<br>1 3/8            | UKFC208D1;H2308X<br>UKFC208D1;HE2308X<br>UKFC208D1;HS2308X                     | 145<br>5 23/32     | 120<br>4 23/32 | 84.9<br>3 11/32        | 11<br>7/16            | 14<br>35/64 | 10<br>25/64           | 26<br>1 1/32          | 27.5<br>1 5/64         | 36<br>1 27/64 | 100<br>3.9370         | 46.5<br>1 53/64       | 46<br>1.811           | 46<br>1 13/16    | M12<br>7/16 | UK208D1;H2308X<br>UK208D1;HE2308X<br>UK208D1;HS2308X                   |                                    |
| 40<br><br>1 7/16<br>1 1/2<br>1 5/8  | UKFC209D1;H2309X<br>UKFC209D1;HA2309<br>UKFC209D1;HE2309X<br>UKFC209D1;HS2309X | 160<br>6 5/16      | 132<br>5 13/64 | 93.3<br>3 43/64        | 10<br>25/64           | 16<br>5/8   | 12<br>15/32           | 26<br>1 1/32          | 28<br>1 7/64           | 38<br>1 1/2   | 105<br>4.1339         | 48.5<br>1 29/32       | 50<br>1.969           | 52<br>2 1/16     | M14<br>1/2  | UK209D1;H2309X<br>UK209D1;HA2309<br>UK209D1;HE2309X<br>UK209D1;HS2309X |                                    |
| 45<br><br>1 5/8<br>1 11/16<br>1 3/4 | UKFC210D1;H2310X<br>UKFC210D1;HS2310<br>UKFC210D1;HA2310<br>UKFC210D1;HE2310X  | 165<br>6 1/2       | 138<br>5 7/16  | 97.6<br>3 27/32        | 10<br>25/64           | 16<br>5/8   | 12<br>15/32           | 28<br>1 3/32          | 29<br>1 5/32           | 40<br>1 37/64 | 110<br>4.3307         | 50<br>1 31/32         | 55<br>2.165           | 57<br>2 1/4      | M14<br>1/2  | UK210D1;H2310X<br>UK210D1;HS2310<br>UK210D1;HA2310<br>UK210D1;HE2310X  |                                    |
| 50<br><br>1 7/8<br>1 15/16<br>2     | UKFC211D1;H2311X<br>UKFC211D1;HS2311<br>UKFC211D1;HA2311<br>UKFC211D1;HE2311XY | 185<br>7 9/32      | 150<br>5 29/32 | 106.1<br>4 11/64       | 13<br>33/64           | 19<br>3/4   | 12<br>15/32           | 31<br>1 7/32          | 32.5<br>1 9/32         | 43<br>1 11/16 | 125<br>4.9213         | 54.5<br>2 9/64        | 59<br>2.323           | 64<br>2 17/32    | M16<br>5/8  | UK211D1;H2311X<br>UK211D1;HS2311<br>UK211D1;HA2311<br>UK211D1;HE2311XY |                                    |
| 55<br><br>2 1/8                     | UKFC212D1;H2312X<br>UKFC212D1;HS2312                                           | 195<br>7 11/16     | 160<br>6 19/64 | 113.1<br>4 29/64       | 17<br>43/64           | 19<br>3/4   | 12<br>15/32           | 36<br>1 13/32         | 38<br>1 1/2            | 48<br>1 57/64 | 135<br>5.3150         | 61<br>2 13/32         | 62<br>2.441           | 69<br>2 23/32    | M16<br>5/8  | UK212D1;H2312X<br>UK212D1;HS2312                                       |                                    |
| 60<br><br>2 3/16<br>2 1/4<br>2 3/8  | UKFC213D1;H2313X<br>UKFC213D1;HA2313<br>UKFC213D1;HE2313X<br>UKFC213D1;HS2313X | 205<br>8 1/16      | 170<br>6 11/16 | 120.2<br>4 47/64       | 16<br>5/8             | 19<br>3/4   | 14<br>35/64           | 36<br>1 13/32         | 38<br>1 1/2            | 50<br>1 31/32 | 145<br>5.7087         | 64<br>2 33/64         | 65<br>2.559           | 74<br>2 29/32    | M16<br>5/8  | UK213D1;H2313X<br>UK213D1;HA2313<br>UK213D1;HE2313X<br>UK213D1;HS2313X |                                    |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

2) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

In this case the lock washer with the straight inner prong should be used.

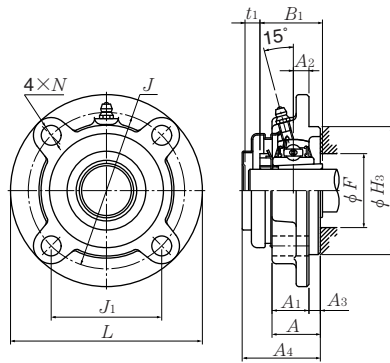
3) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.

To distinguish it, a suffix "Y" is added.

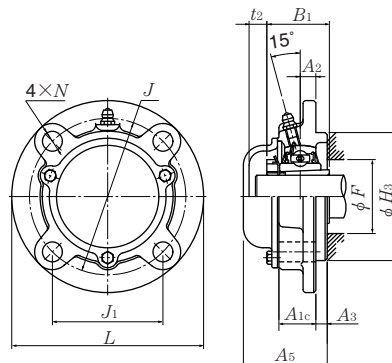
4) If the inch series housing units with dust cover are ordered with a closed end, the suffixes E, S or A are not included.

Example: SM-UKFC205D1; HE2305

Note: Please refer to page 36 for size of grease fitting.



Press steel dust cover type (Close end)  
SM-UKFC...D1

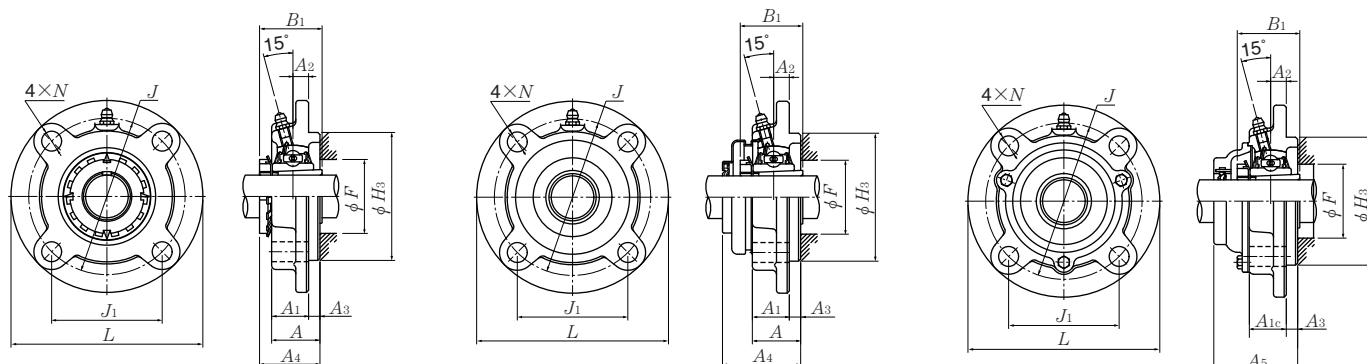


Cast dust cover type (Close end)  
CM-UKFC...D1

| Housing<br>number | Unit number 1) 2) 3) 4)<br>pressed steel dust cover type | Unit number 1) 2) 3) 4)<br>cast dust cover type | Nominal dimensions               |                                  |                                 |                                 | Mass<br>(approx.) |       |       |
|-------------------|----------------------------------------------------------|-------------------------------------------------|----------------------------------|----------------------------------|---------------------------------|---------------------------------|-------------------|-------|-------|
|                   |                                                          |                                                 | mm                               |                                  | inch                            |                                 | kg                |       | lb    |
|                   |                                                          |                                                 | t <sub>1</sub>                   | t <sub>2</sub>                   | A <sub>4</sub>                  | A <sub>5</sub>                  | UKFC              | S(SM) | C(CM) |
| FC205D1           | S(SM)-UKFC205D1;H2305X                                   | C(CM)-UKFC205D1;H2305X                          | 7                                | 11                               | 44.5                            | 51                              | 1.0               | 1.1   | 1.2   |
| FC205D1           | S(SM)-UKFC205ED1;HE2305                                  | C(CM)-UKFC205ED1;HE2305                         | 9 <sup>9</sup> / <sub>32</sub>   | 7 <sup>7</sup> / <sub>16</sub>   | 1 <sup>3</sup> / <sub>4</sub>   | 2                               | 2.2               | 2.4   | 2.7   |
| FC206D1           | S(SM)-UKFC206D1;H2306X                                   | C(CM)-UKFC206D1;H2306X                          | 8                                | 13                               | 49                              | 56                              | 1.3               | 1.4   | 1.7   |
| FC206D1           | S(SM)-UKFC206SD1;HS2306                                  | C(CM)-UKFC206SD1;HS2306                         | 5 <sup>5</sup> / <sub>16</sub>   | 33 <sup>33</sup> / <sub>64</sub> | 1 <sup>59</sup> / <sub>64</sub> | 2 <sup>13</sup> / <sub>16</sub> | 2.9               | 3.1   | 3.8   |
| FC206D1           | S(SM)-UKFC206ED1;HE2306X                                 | C(CM)-UKFC206ED1;HE2306X                        |                                  |                                  |                                 |                                 |                   |       |       |
| FC207D1           | S(SM)-UKFC207D1;H2307X                                   | C(CM)-UKFC207D1;H2307X                          | 10                               | 12                               | 55                              | 59                              | 1.7               | 1.8   | 2.0   |
| FC207D1           | S(SM)-UKFC207SD1;HS2307                                  | C(CM)-UKFC207SD1;HS2307                         | 25 <sup>25</sup> / <sub>64</sub> | 15 <sup>15</sup> / <sub>32</sub> | 2 <sup>11</sup> / <sub>64</sub> | 2 <sup>21</sup> / <sub>64</sub> | 3.7               | 4.0   | 4.4   |
| FC208D1           | S(SM)-UKFC208D1;H2308X                                   | C(CM)-UKFC208D1;H2308X                          | 13                               | 14                               | 62                              | 66                              | 2.1               | 2.2   | 2.6   |
| FC208D1           | S(SM)-UKFC208ED1;HE2308X                                 | C(CM)-UKFC208ED1;HE2308X                        | 33 <sup>33</sup> / <sub>64</sub> | 35 <sup>35</sup> / <sub>64</sub> | 2 <sup>7</sup> / <sub>16</sub>  | 2 <sup>19</sup> / <sub>32</sub> | 4.6               | 4.9   | 5.7   |
| FC208D1           | S(SM)-UKFC208SD1;HS2308X                                 | C(CM)-UKFC208SD1;HS2308X                        |                                  |                                  |                                 |                                 |                   |       |       |
| FC209D1           | S(SM)-UKFC209D1;H2309X                                   | C(CM)-UKFC209D1;H2309X                          | 12                               | 16                               | 63                              | 70                              | 2.8               | 2.9   | 3.4   |
| FC209D1           | S(SM)-UKFC209AD1;HA2309                                  | C(CM)-UKFC209AD1;HA2309                         |                                  |                                  |                                 |                                 |                   |       |       |
| FC209D1           | S(SM)-UKFC209ED1;HE2309X                                 | C(CM)-UKFC209ED1;HE2309X                        | 15 <sup>15</sup> / <sub>32</sub> | 5 <sup>5</sup> / <sub>8</sub>    | 2 <sup>31</sup> / <sub>64</sub> | 2 <sup>3</sup> / <sub>4</sub>   | 6.2               | 6.4   | 7.5   |
| FC209D1           | S(SM)-UKFC209SD1;HS2309X                                 | C(CM)-UKFC209SD1;HS2309X                        |                                  |                                  |                                 |                                 |                   |       |       |
| FC210D1           | S(SM)-UKFC210D1;H2310X                                   | C(CM)-UKFC210D1;H2310X                          | 13                               | 17                               | 65.5                            | 72                              | 3.1               | 3.3   | 4.8   |
| FC210D1           | S(SM)-UKFC210SD1;HS2310                                  | C(CM)-UKFC210SD1;HS2310                         |                                  |                                  |                                 |                                 |                   |       |       |
| FC210D1           | S(SM)-UKFC210AD1;HA2310                                  | C(CM)-UKFC210AD1;HA2310                         | 33 <sup>33</sup> / <sub>64</sub> | 21 <sup>21</sup> / <sub>32</sub> | 2 <sup>37</sup> / <sub>64</sub> | 2 <sup>53</sup> / <sub>64</sub> | 6.8               | 7.3   | 11    |
| FC210D1           | S(SM)-UKFC210ED1;HE2310X                                 | C(CM)-UKFC210ED1;HE2310X                        |                                  |                                  |                                 |                                 |                   |       |       |
| FC211D1           | S(SM)-UKFC211D1;H2311X                                   | C(CM)-UKFC211D1;H2311X                          | 14                               | 15                               | 71                              | 75                              | 4.2               | 4.4   | 5.1   |
| FC211D1           | S(SM)-UKFC211SD1;HS2311                                  | C(CM)-UKFC211SD1;HS2311                         |                                  |                                  |                                 |                                 |                   |       |       |
| FC211D1           | S(SM)-UKFC211AD1;HA2311                                  | C(CM)-UKFC211AD1;HA2311                         | 35 <sup>35</sup> / <sub>64</sub> | 19 <sup>19</sup> / <sub>32</sub> | 2 <sup>51</sup> / <sub>64</sub> | 2 <sup>61</sup> / <sub>64</sub> | 9.3               | 9.7   | 11    |
| FC211D1           | S(SM)-UKFC211ED1;HE2311XY                                | C(CM)-UKFC211ED1;HE2311XY                       |                                  |                                  |                                 |                                 |                   |       |       |
| FC212D1           | S(SM)-UKFC212D1;H2312X                                   | C(CM)-UKFC212D1;H2312X                          | 16                               | 20                               | 80                              | 86                              | 5.0               | 5.2   | 6.1   |
| FC212D1           | S(SM)-UKFC212SD1;HS2312                                  | C(CM)-UKFC212SD1;HS2312                         | 5 <sup>5</sup> / <sub>8</sub>    | 25 <sup>25</sup> / <sub>32</sub> | 3 <sup>5</sup> / <sub>32</sub>  | 3 <sup>25</sup> / <sub>64</sub> | 11                | 11    | 13    |
| FC213D1           | S(SM)-UKFC213D1;H2313X                                   | C(CM)-UKFC213D1;H2313X                          | 17                               | 20                               | 83.5                            | 90                              | 6.0               | 6.1   | 7.1   |
| FC213D1           | S(SM)-UKFC213AD1;HA2313                                  | C(CM)-UKFC213AD1;HA2313                         |                                  |                                  |                                 |                                 |                   |       |       |
| FC213D1           | S(SM)-UKFC213ED1;HE2313X                                 | C(CM)-UKFC213ED1;HE2313X                        | 21 <sup>21</sup> / <sub>32</sub> | 25 <sup>25</sup> / <sub>32</sub> | 3 <sup>9</sup> / <sub>32</sub>  | 3 <sup>35</sup> / <sub>64</sub> | 13                | 13    | 16    |
| FC213D1           | S(SM)-UKFC213SD1;HS2313X                                 | C(CM)-UKFC213SD1;HS2313X                        |                                  |                                  |                                 |                                 |                   |       |       |



## Round flanged units cast housing w/spigot joint Adapter type



Press steel dust cover type (Open end)  
S-UKFC...D1

Cast dust cover type (Open end)  
C-UKFC...D1

| Shaft<br>dia.<br><br>mm<br>inch                                        | Unit number <sup>1) 2) 3)</sup>                            | Nominal dimensions                     |                                        |                                          |                         |                         |                         |                                       |                                         |                                       |                       |                                         |                       |                                       |                        | Bolt<br>size<br><br>mm<br>inch                       | Bearing <sup>2) 3)</sup><br>number |
|------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------|----------------------------------------|------------------------------------------|-------------------------|-------------------------|-------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|-----------------------|-----------------------------------------|-----------------------|---------------------------------------|------------------------|------------------------------------------------------|------------------------------------|
|                                                                        |                                                            | mm                                     |                                        |                                          |                         |                         |                         |                                       | inch                                    |                                       |                       |                                         |                       |                                       |                        |                                                      |                                    |
|                                                                        |                                                            | <i>L</i>                               | <i>J</i>                               | <i>(J<sub>1</sub>)</i>                   | <i>A</i> <sub>2</sub>   | <i>N</i>                | <i>A</i> <sub>3</sub>   | <i>A</i> <sub>1</sub>                 | <i>A</i> <sub>1c</sub>                  | <i>A</i>                              | <i>H</i> <sub>3</sub> | <i>A</i> <sub>0</sub>                   | <i>B</i> <sub>1</sub> | <i>F</i><br>min.                      |                        |                                                      |                                    |
| 65<br>2 <sup>7</sup> / <sub>16</sub><br>2 <sup>1</sup> / <sub>2</sub>  | UKFC215D1;H2315X<br>UKFC215D1;HA2315<br>UKFC215D1;HE2315X  | 220<br>8 <sup>21</sup> / <sub>32</sub> | 184<br>7 <sup>1</sup> / <sub>4</sub>   | 130.1<br>5 <sup>1</sup> / <sub>8</sub>   | 18<br>45/ <sub>64</sub> | 19<br>3/ <sub>4</sub>   | 16<br>5/ <sub>8</sub>   | 40<br>1 <sup>9</sup> / <sub>16</sub>  | 43<br>1 <sup>11</sup> / <sub>16</sub>   | 56<br>2 <sup>13</sup> / <sub>64</sub> | 160<br>6.2992         | 71<br>2 <sup>51</sup> / <sub>64</sub>   | 73<br>2.874           | 84<br>3 <sup>5</sup> / <sub>16</sub>  | M16<br>5/ <sub>8</sub> | UK215D1;H2315X<br>UK215D1;HA2315<br>UK215D1;HE2315X  |                                    |
| 70<br>2 <sup>11</sup> / <sub>16</sub><br>2 <sup>3</sup> / <sub>4</sub> | UKFC216D1;H2316X<br>UKFC216D1;HA2316<br>UKFC216D1;HE2316X  | 240<br>9 <sup>7</sup> / <sub>16</sub>  | 200<br>7 <sup>7</sup> / <sub>8</sub>   | 141.4<br>5 <sup>9</sup> / <sub>16</sub>  | 18<br>45/ <sub>64</sub> | 23<br>29/ <sub>32</sub> | 16<br>5/ <sub>8</sub>   | 42<br>1 <sup>21</sup> / <sub>32</sub> | 43<br>1 <sup>11</sup> / <sub>16</sub>   | 58<br>2 <sup>9</sup> / <sub>32</sub>  | 170<br>6.6929         | 73.5<br>2 <sup>57</sup> / <sub>64</sub> | 78<br>3.071           | 90<br>3 <sup>17</sup> / <sub>32</sub> | M20<br>3/ <sub>4</sub> | UK216D1;H2316X<br>UK216D1;HA2316<br>UK216D1;HE2316X  |                                    |
| 75<br>2 <sup>15</sup> / <sub>16</sub><br>3                             | UKFC217D1;H2317X<br>UKFC217D1;HA2317X<br>UKFC217D1;HE2317X | 250<br>9 <sup>27</sup> / <sub>32</sub> | 208<br>8 <sup>3</sup> / <sub>16</sub>  | 147.1<br>5 <sup>51</sup> / <sub>64</sub> | 18<br>45/ <sub>64</sub> | 23<br>29/ <sub>32</sub> | 18<br>45/ <sub>64</sub> | 45<br>1 <sup>25</sup> / <sub>32</sub> | 45.5<br>1 <sup>51</sup> / <sub>64</sub> | 63<br>2 <sup>31</sup> / <sub>64</sub> | 180<br>7.0866         | 77<br>3 <sup>1</sup> / <sub>32</sub>    | 82<br>3.228           | 95<br>3 <sup>3</sup> / <sub>4</sub>   | M20<br>3/ <sub>4</sub> | UK217D1;H2317X<br>UK217D1;HA2317X<br>UK217D1;HE2317X |                                    |
| 80<br>3 <sup>3</sup> / <sub>16</sub>                                   | UKFC218D1;H2318X<br>UKFC218D1;HA2318X                      | 265<br>10 <sup>7</sup> / <sub>16</sub> | 220<br>8 <sup>21</sup> / <sub>32</sub> | 155.6<br>6 <sup>1</sup> / <sub>8</sub>   | 22<br>55/ <sub>64</sub> | 23<br>29/ <sub>32</sub> | 18<br>45/ <sub>64</sub> | 50<br>1 <sup>31</sup> / <sub>32</sub> | 50<br>1 <sup>31</sup> / <sub>32</sub>   | 68<br>2 <sup>43</sup> / <sub>64</sub> | 190<br>7.4803         | 81.5<br>3 <sup>13</sup> / <sub>64</sub> | 86<br>3.386           | 102<br>4 <sup>1</sup> / <sub>32</sub> | M20<br>3/ <sub>4</sub> | UK218D1;H2318X<br>UK218D1;HA2318X                    |                                    |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

2) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

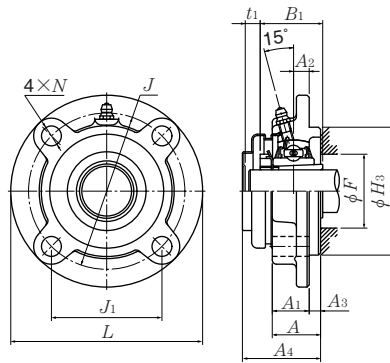
In this case the lock washer with the straight inner prong should be used.

3) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve. To distinguish it, a suffix "Y" is added.

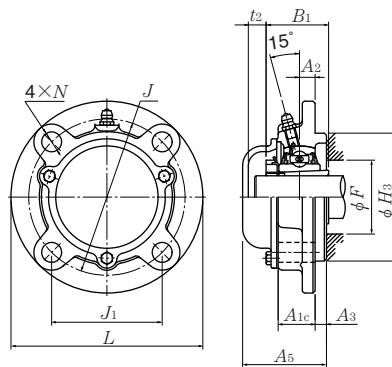
4) If the inch series housing units with dust cover are ordered with a closed end, the suffixes E, S or A are not included.

Example: SM-UKFC205D1; HE2305

Note: Please refer to page 36 for size of grease fitting.



Press steel dust cover type (Close end)  
SM-UKFC...D1

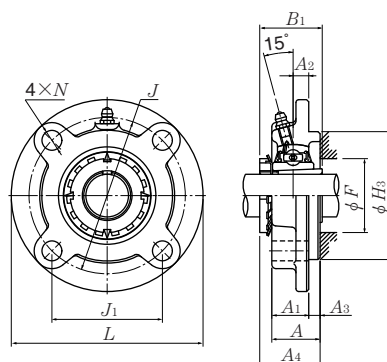


Cast dust cover type (Close end)  
CM-UKFC...D1

| Housing<br>number <sup>1)</sup> | Unit number <sup>1) 2) 3) 4)</sup><br>pressed steel dust cover type | Unit number <sup>1) 2) 3) 4)</sup><br>cast dust cover type | Nominal dimensions |                |                |                | Mass<br>(approx.) |       |       |
|---------------------------------|---------------------------------------------------------------------|------------------------------------------------------------|--------------------|----------------|----------------|----------------|-------------------|-------|-------|
|                                 |                                                                     |                                                            | mm                 |                | inch           |                | kg                |       | lb    |
|                                 |                                                                     |                                                            | t <sub>1</sub>     | t <sub>2</sub> | A <sub>4</sub> | A <sub>5</sub> | UKFC              | S(SM) | C(CM) |
| FC215D1                         | —                                                                   | C(CM)-UKFC215D1;H2315X                                     | —                  | 25             | —              | 102            | 7.7               | —     | 9.3   |
| FC215D1                         | —                                                                   | C(CM)-UKFC215AD1;HA2315                                    | —                  | 63/64          | —              | 4 1/64         | 17                | —     | 21    |
| FC215D1                         | —                                                                   | C(CM)-UKFC215ED1;HE2315X                                   | —                  | —              | —              | —              | —                 | —     | —     |
| FC216D1                         | —                                                                   | C(CM)-UKFC216D1;H2316X                                     | —                  | 26             | —              | 106            | 9.5               | —     | 11    |
| FC216D1                         | —                                                                   | C(CM)-UKFC216AD1;HA2316                                    | —                  | 1 1/32         | —              | 4 11/64        | 21                | —     | 24    |
| FC216D1                         | —                                                                   | C(CM)-UKFC216ED1;HE2316X                                   | —                  | —              | —              | —              | —                 | —     | —     |
| FC217D1                         | —                                                                   | C(CM)-UKFC217D1;H2317X                                     | —                  | 31             | —              | 114            | 11                | —     | 13    |
| FC217D1                         | —                                                                   | C(CM)-UKFC217AD1;HA2317X                                   | —                  | 1 7/32         | —              | 4 31/64        | 24                | —     | 29    |
| FC217D1                         | —                                                                   | C(CM)-UKFC217ED1;HE2317X                                   | —                  | —              | —              | —              | —                 | —     | —     |
| FC218D1                         | —                                                                   | C(CM)-UKFC218D1;H2318X                                     | —                  | 34             | —              | 122            | 13                | —     | 15    |
| FC218D1                         | —                                                                   | C(CM)-UKFC218AD1;HA2318X                                   | —                  | 1 11/32        | —              | 4 51/64        | 29                | —     | 33    |



# Round flanged units cast housing w/spigot joint Adapter type



| Shaft<br>dia.<br><br>mm<br>inch | Unit number <sup>1) 2) 3)</sup>                                                | Nominal dimensions      |               |                          |                      |             |                      |                        |                        |                      |                      |                      |                        |             | Bolt<br>size<br><br>mm<br>inch |
|---------------------------------|--------------------------------------------------------------------------------|-------------------------|---------------|--------------------------|----------------------|-------------|----------------------|------------------------|------------------------|----------------------|----------------------|----------------------|------------------------|-------------|--------------------------------|
|                                 |                                                                                |                         |               |                          |                      |             |                      |                        |                        |                      |                      |                      |                        |             |                                |
|                                 |                                                                                | mm                      |               |                          |                      |             |                      | inch                   |                        |                      |                      |                      |                        |             |                                |
|                                 |                                                                                | <i>L</i>                | <i>J</i>      | <i>(J<sub>1</sub>)</i>   | <i>A<sub>2</sub></i> | <i>N</i>    | <i>A<sub>3</sub></i> | <i>A<sub>1</sub></i>   | <i>A</i>               | <i>H<sub>3</sub></i> | <i>A<sub>0</sub></i> | <i>B<sub>1</sub></i> | <i>F</i><br>min.       |             |                                |
| 20<br>¾                         | UKFCX05D1;H2305X<br>UKFCX05D1;HE2305                                           | 111<br>4⅜               | 92.1<br>3⅝    | 65.1<br>2⅑ <sub>16</sub> | 10<br>25⁄64          | 9.5<br>⅜    | 6<br>¼               | 24<br>15⁄16            | 30<br>1⅓ <sub>16</sub> | 76<br>2.9921         | 37<br>129⁄64         | 35<br>1.378          | 30<br>1⅓ <sub>16</sub> | M8<br>5⁄16  |                                |
| 25<br>7⁄8<br>1                  | UKFCX06D1;H2306X<br>UKFCX06D1;HS2306<br>UKFCX06D1;HE2306X                      | 127<br>5                | 105<br>49⁄64  | 74.2<br>259⁄64           | 8<br>5⁄16            | 12<br>15⁄32 | 9.5<br>⅜             | 22.5<br>7⁄8            | 32<br>117⁄64           | 85<br>3.3465         | 40<br>137⁄64         | 38<br>1.496          | 36<br>113⁄32           | M10<br>⅜    |                                |
| 30<br>1⅛                        | UKFCX07D1;H2307X<br>UKFCX07D1;HS2307                                           | 133<br>5¼               | 111<br>4⅜     | 78.5<br>3⅓ <sub>32</sub> | 9<br>23⁄64           | 12<br>15⁄32 | 11<br>7⁄16           | 26<br>1⅓ <sub>32</sub> | 37<br>129⁄64           | 92<br>3.6220         | 44.5<br>1¾           | 43<br>1.693          | 40<br>19⁄16            | M10<br>⅜    |                                |
| 35<br>1¼<br>1⅜                  | UKFCX08D1;H2308X<br>UKFCX08D1;HE2308X<br>UKFCX08D1;HS2308X                     | 133<br>5¼               | 111<br>4⅜     | 78.5<br>3⅓ <sub>32</sub> | 9<br>23⁄64           | 12<br>15⁄32 | 11<br>7⁄16           | 26<br>1⅓ <sub>32</sub> | 37<br>129⁄64           | 92<br>3.6220         | 45.5<br>151⁄64       | 46<br>1.811          | 46<br>113⁄16           | M10<br>⅜    |                                |
| 40<br>17⁄16<br>1½<br>1⅝         | UKFCX09D1;H2309X<br>UKFCX09D1;HA2309<br>UKFCX09D1;HE2309X<br>UKFCX09D1;HS2309X | 155<br>6⅜ <sub>32</sub> | 130<br>5⅛     | 91.9<br>3⅝               | 8<br>5⁄16            | 14<br>35⁄64 | 12<br>15⁄32          | 25<br>31⁄32            | 37<br>129⁄64           | 108<br>4.2520        | 47<br>127⁄32         | 50<br>1.969          | 52<br>21⁄16            | M12<br>7⁄16 |                                |
| 45<br>1⅝<br>111⁄16<br>1¾        | UKFCX10D1;H2310X<br>UKFCX10D1;HS2310<br>UKFCX10D1;HA2310<br>UKFCX10D1;HE2310X  | 162<br>6⅜               | 136<br>523⁄64 | 96.2<br>325⁄32           | 7<br>9⁄32            | 14<br>35⁄64 | 16<br>5⁄8            | 25<br>31⁄32            | 41<br>139⁄64           | 118<br>4.6457        | 52.5<br>21⁄16        | 55<br>2.165          | 57<br>2¼               | M12<br>7⁄16 |                                |
| 50<br>17⁄8<br>115⁄16<br>2       | UKFCX11D1;H2311X<br>UKFCX11D1;HS2311<br>UKFCX11D1;HA2311<br>UKFCX11D1;HE2311XY | 180<br>7⅜ <sub>32</sub> | 152<br>563⁄64 | 107.5<br>415⁄64          | 4<br>5⁄32            | 16<br>5⁄8   | 22<br>55⁄64          | 26<br>1⅓ <sub>32</sub> | 48<br>157⁄64           | 127<br>5.0000        | 57<br>2¼             | 59<br>2.323          | 64<br>217⁄32           | M14<br>½    |                                |
| 55<br>2⅛                        | UKFCX12D1;H2312X<br>UKFCX12D1;HS2312                                           | 194<br>7⅝               | 165<br>6½     | 116.7<br>419⁄32          | 11<br>7⁄16           | 16<br>5⁄8   | 20<br>25⁄32          | 33<br>15⁄16            | 53<br>25⁄64            | 140<br>5.5118        | 64<br>233⁄64         | 62<br>2.441          | 69<br>223⁄32           | M14<br>½    |                                |
| 60<br>23⁄16<br>2¼<br>2⅜         | UKFCX13D1;H2313X<br>UKFCX13D1;HA2313<br>UKFCX13D1;HE2313X<br>UKFCX13D1;HS2313X | 194<br>7⅝               | 165<br>6½     | 116.7<br>419⁄32          | 11<br>7⁄16           | 16<br>5⁄8   | 20<br>25⁄32          | 33<br>15⁄16            | 53<br>25⁄64            | 140<br>5.5118        | 66<br>219⁄32         | 65<br>2.559          | 74<br>229⁄32           | M14<br>½    |                                |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

2) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

In this case the lock washer with the straight inner prong should be used.

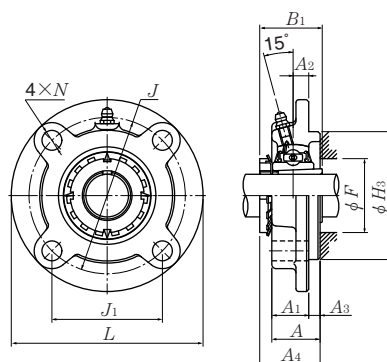
3) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.

To distinguish it, a suffix "Y" is added.

Note: Please refer to page 36 for size of grease fitting.

| Bearing number <sup>2) 3)</sup> | Housing number <sup>1)</sup> | Mass (approx.) |    |
|---------------------------------|------------------------------|----------------|----|
|                                 |                              | kg             | lb |
| UKX05D1;H2305X                  | FCX05D1                      | 1.2            |    |
| UKX05D1;HE2305                  | FCX05D1                      | 2.7            |    |
| UKX06D1;H2306X                  | FCX06D1                      | 1.5            |    |
| UKX06D1;HS2306                  | FCX06D1                      | 3.3            |    |
| UKX06D1;HE2306X                 | FCX06D1                      |                |    |
| UKX07D1;H2307X                  | FCX07D1                      | 1.9            |    |
| UKX07D1;HS2307                  | FCX07D1                      | 4.2            |    |
| UKX08D1;H2308X                  | FCX08D1                      | 2.2            |    |
| UKX08D1;HE2308X                 | FCX08D1                      | 4.9            |    |
| UKX08D1;HS2308X                 | FCX08D1                      |                |    |
| UKX09D1;H2309X                  | FCX09D1                      | 2.7            |    |
| UKX09D1;HA2309                  | FCX09D1                      |                |    |
| UKX09D1;HE2309X                 | FCX09D1                      | 6.0            |    |
| UKX09D1;HS2309X                 | FCX09D1                      |                |    |
| UKX10D1;H2310X                  | FCX10D1                      | 3.1            |    |
| UKX10D1;HS2310                  | FCX10D1                      |                |    |
| UKX10D1;HA2310                  | FCX10D1                      | 6.8            |    |
| UKX10D1;HE2310X                 | FCX10D1                      |                |    |
| UKX11D1;H2311X                  | FCX11D1                      | 4.2            |    |
| UKX11D1;HS2311                  | FCX11D1                      |                |    |
| UKX11D1;HA2311                  | FCX11D1                      | 9.3            |    |
| UKX11D1;HE2311XY                | FCX11D1                      |                |    |
| UKX12D1;H2312X                  | FCX12D1                      | 5.5            |    |
| UKX12D1;HS2312                  | FCX12D1                      | 12             |    |
| UKX13D1;H2313X                  | FCX13D1                      | 5.4            |    |
| UKX13D1;HA2313                  | FCX13D1                      |                |    |
| UKX13D1;HE2313X                 | FCX13D1                      | 12             |    |
| UKX15D1;HS2313X                 | FCX13D1                      |                |    |

# Round flanged units cast housing w/spigot joint Adapter type



| Shaft<br>dia.<br><div>mm</div> <div>inch</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Unit number <sup>1) 2) 3)</sup>                                                       | Nominal dimensions                                   |                                                       |                                                        |                                                      |                                                      |                                                      |                                                      |                                                      |                                  |                                                        |                                 |                                                      | Bolt<br>size<br><div>mm</div> <div>inch</div>       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|----------------------------------|--------------------------------------------------------|---------------------------------|------------------------------------------------------|-----------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                       |                                                      |                                                       |                                                        |                                                      |                                                      |                                                      |                                                      |                                                      |                                  |                                                        |                                 |                                                      |                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                       | <div><i>L</i></div>                                  | <div><i>J</i></div>                                   | <div><i>(J<sub>1</sub>)</i></div>                      | <div><i>A<sub>2</sub></i></div>                      | <div><i>N</i></div>                                  | <div><i>A<sub>3</sub></i></div>                      | <div><i>A<sub>1</sub></i></div>                      | <div><i>A</i></div>                                  | <div><i>H<sub>3</sub></i></div>  | <div><i>A<sub>0</sub></i></div>                        | <div><i>B<sub>1</sub></i></div> | <div><i>F</i><br/>min.</div>                         |                                                     |
| <div>65</div> <div><div><div>2<sup>7</sup><sub>16</sub></div><div>2<sup>1</sup><sub>2</sub></div></div></div> <td><div>UKFCX15D1;H2315X</div><div>UKFCX15D1;HA2315</div><div>UKFCX15D1;HE2315X</div></td> <td><div>222</div><div>8<sup>3</sup><sub>4</sub></div></td> <td><div>190</div><div>7<sup>31</sup><sub>64</sub></div></td> <td><div>134.4</div><div>5<sup>9</sup><sub>32</sub></div></td> <td><div>12</div><div>15<sup>1</sup><sub>32</sub></div></td> <td><div>19</div><div>3<sup>1</sup><sub>4</sub></div></td> <td><div>22</div><div>55<sup>5</sup><sub>64</sub></div></td> <td><div>35</div><div>1<sup>3</sup><sub>8</sub></div></td> <td><div>57</div><div>2<sup>1</sup><sub>4</sub></div></td> <td><div>164</div><div>6.4567</div></td> <td><div>71.5</div><div>2<sup>13</sup><sub>16</sub></div></td> <td><div>73</div><div>2.874</div></td> <td><div>84</div><div>3<sup>5</sup><sub>16</sub></div></td> <td><div>M16</div><div>5<sup>5</sup><sub>8</sub></div></td>      | <div>UKFCX15D1;H2315X</div> <div>UKFCX15D1;HA2315</div> <div>UKFCX15D1;HE2315X</div>  | <div>222</div> <div>8<sup>3</sup><sub>4</sub></div>  | <div>190</div> <div>7<sup>31</sup><sub>64</sub></div> | <div>134.4</div> <div>5<sup>9</sup><sub>32</sub></div> | <div>12</div> <div>15<sup>1</sup><sub>32</sub></div> | <div>19</div> <div>3<sup>1</sup><sub>4</sub></div>   | <div>22</div> <div>55<sup>5</sup><sub>64</sub></div> | <div>35</div> <div>1<sup>3</sup><sub>8</sub></div>   | <div>57</div> <div>2<sup>1</sup><sub>4</sub></div>   | <div>164</div> <div>6.4567</div> | <div>71.5</div> <div>2<sup>13</sup><sub>16</sub></div> | <div>73</div> <div>2.874</div>  | <div>84</div> <div>3<sup>5</sup><sub>16</sub></div>  | <div>M16</div> <div>5<sup>5</sup><sub>8</sub></div> |
| <div>70</div> <div><div><div>2<sup>11</sup><sub>16</sub></div><div>2<sup>3</sup><sub>4</sub></div></div></div> <td><div>UKFCX16D1;H2316X</div><div>UKFCX16D1;HA2316</div><div>UKFCX16D1;HE2316X</div></td> <td><div>260</div><div>10<sup>1</sup><sub>4</sub></div></td> <td><div>219</div><div>8<sup>5</sup><sub>8</sub></div></td> <td><div>154.9</div><div>6<sup>3</sup><sub>32</sub></div></td> <td><div>10</div><div>25<sup>1</sup><sub>64</sub></div></td> <td><div>23</div><div>29<sup>1</sup><sub>32</sub></div></td> <td><div>25</div><div>63<sup>3</sup><sub>64</sub></div></td> <td><div>36</div><div>1<sup>13</sup><sub>32</sub></div></td> <td><div>61</div><div>2<sup>13</sup><sub>32</sub></div></td> <td><div>186</div><div>7.3228</div></td> <td><div>75</div><div>2<sup>61</sup><sub>64</sub></div></td> <td><div>78</div><div>3.071</div></td> <td><div>90</div><div>3<sup>17</sup><sub>32</sub></div></td> <td><div>M20</div><div>3<sup>3</sup><sub>4</sub></div></td> | <div>UKFCX16D1;H2316X</div> <div>UKFCX16D1;HA2316</div> <div>UKFCX16D1;HE2316X</div>  | <div>260</div> <div>10<sup>1</sup><sub>4</sub></div> | <div>219</div> <div>8<sup>5</sup><sub>8</sub></div>   | <div>154.9</div> <div>6<sup>3</sup><sub>32</sub></div> | <div>10</div> <div>25<sup>1</sup><sub>64</sub></div> | <div>23</div> <div>29<sup>1</sup><sub>32</sub></div> | <div>25</div> <div>63<sup>3</sup><sub>64</sub></div> | <div>36</div> <div>1<sup>13</sup><sub>32</sub></div> | <div>61</div> <div>2<sup>13</sup><sub>32</sub></div> | <div>186</div> <div>7.3228</div> | <div>75</div> <div>2<sup>61</sup><sub>64</sub></div>   | <div>78</div> <div>3.071</div>  | <div>90</div> <div>3<sup>17</sup><sub>32</sub></div> | <div>M20</div> <div>3<sup>3</sup><sub>4</sub></div> |
| <div>75</div> <div><div><div>2<sup>15</sup><sub>16</sub></div><div>3</div></div></div> <td><div>UKFCX17D1;H2317X</div><div>UKFCX17D1;HA2317X</div><div>UKFCX17D1;HE2317X</div></td> <td><div>260</div><div>10<sup>1</sup><sub>4</sub></div></td> <td><div>219</div><div>8<sup>5</sup><sub>8</sub></div></td> <td><div>154.9</div><div>6<sup>3</sup><sub>32</sub></div></td> <td><div>10</div><div>25<sup>1</sup><sub>64</sub></div></td> <td><div>23</div><div>29<sup>1</sup><sub>32</sub></div></td> <td><div>25</div><div>63<sup>3</sup><sub>64</sub></div></td> <td><div>36</div><div>1<sup>13</sup><sub>32</sub></div></td> <td><div>61</div><div>2<sup>13</sup><sub>32</sub></div></td> <td><div>186</div><div>7.3228</div></td> <td><div>76.5</div><div>3<sup>1</sup><sub>64</sub></div></td> <td><div>82</div><div>3.228</div></td> <td><div>95</div><div>3<sup>3</sup><sub>4</sub></div></td> <td><div>M20</div><div>3<sup>3</sup><sub>4</sub></div></td>                         | <div>UKFCX17D1;H2317X</div> <div>UKFCX17D1;HA2317X</div> <div>UKFCX17D1;HE2317X</div> | <div>260</div> <div>10<sup>1</sup><sub>4</sub></div> | <div>219</div> <div>8<sup>5</sup><sub>8</sub></div>   | <div>154.9</div> <div>6<sup>3</sup><sub>32</sub></div> | <div>10</div> <div>25<sup>1</sup><sub>64</sub></div> | <div>23</div> <div>29<sup>1</sup><sub>32</sub></div> | <div>25</div> <div>63<sup>3</sup><sub>64</sub></div> | <div>36</div> <div>1<sup>13</sup><sub>32</sub></div> | <div>61</div> <div>2<sup>13</sup><sub>32</sub></div> | <div>186</div> <div>7.3228</div> | <div>76.5</div> <div>3<sup>1</sup><sub>64</sub></div>  | <div>82</div> <div>3.228</div>  | <div>95</div> <div>3<sup>3</sup><sub>4</sub></div>   | <div>M20</div> <div>3<sup>3</sup><sub>4</sub></div> |
| <div>80</div> <div><div><div>3<sup>3</sup><sub>16</sub></div></div></div> <td><div>UKFCX18D1;H2318X</div><div>UKFCX18D1;HA2318X</div></td> <td><div>260</div><div>10<sup>1</sup><sub>4</sub></div></td> <td><div>219</div><div>8<sup>5</sup><sub>8</sub></div></td> <td><div>154.9</div><div>6<sup>3</sup><sub>32</sub></div></td> <td><div>12</div><div>15<sup>1</sup><sub>32</sub></div></td> <td><div>23</div><div>29<sup>1</sup><sub>32</sub></div></td> <td><div>28</div><div>1<sup>7</sup><sub>64</sub></div></td> <td><div>43</div><div>1<sup>11</sup><sub>16</sub></div></td> <td><div>71</div><div>2<sup>51</sup><sub>64</sub></div></td> <td><div>186</div><div>7.3228</div></td> <td><div>82.5</div><div>3<sup>1</sup><sub>4</sub></div></td> <td><div>86</div><div>3.386</div></td> <td><div>102</div><div>4<sup>1</sup><sub>32</sub></div></td> <td><div>M20</div><div>3<sup>3</sup><sub>4</sub></div></td>                                                                  | <div>UKFCX18D1;H2318X</div> <div>UKFCX18D1;HA2318X</div>                              | <div>260</div> <div>10<sup>1</sup><sub>4</sub></div> | <div>219</div> <div>8<sup>5</sup><sub>8</sub></div>   | <div>154.9</div> <div>6<sup>3</sup><sub>32</sub></div> | <div>12</div> <div>15<sup>1</sup><sub>32</sub></div> | <div>23</div> <div>29<sup>1</sup><sub>32</sub></div> | <div>28</div> <div>1<sup>7</sup><sub>64</sub></div>  | <div>43</div> <div>1<sup>11</sup><sub>16</sub></div> | <div>71</div> <div>2<sup>51</sup><sub>64</sub></div> | <div>186</div> <div>7.3228</div> | <div>82.5</div> <div>3<sup>1</sup><sub>4</sub></div>   | <div>86</div> <div>3.386</div>  | <div>102</div> <div>4<sup>1</sup><sub>32</sub></div> | <div>M20</div> <div>3<sup>3</sup><sub>4</sub></div> |
| <div>90</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <div>UKFCX20D1;H2320X</div>                                                           | <div>276</div>                                       | <div>238</div>                                        | <div>168.3</div>                                       | <div>22</div>                                        | <div>23</div>                                        | <div>28</div>                                        | <div>66</div>                                        | <div>94</div>                                        | <div>206</div>                   | <div>99</div>                                          | <div>97</div>                   | <div>112</div>                                       | <div>M20</div>                                      |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

2) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

In this case the lock washer with the straight inner prong should be used.

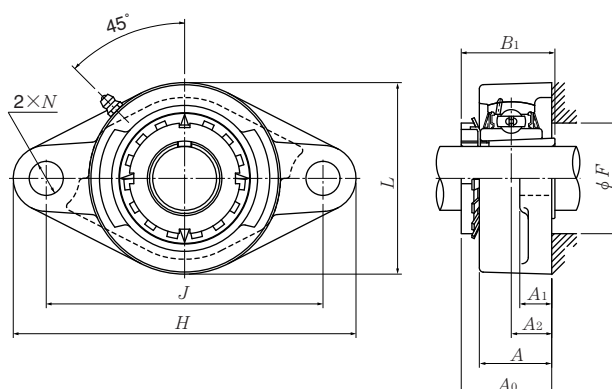
3) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.

To distinguish it, a suffix "Y" is added.

Note: Please refer to page 36 for size of grease fitting.

| Bearing number <sup>2) 3)</sup> | Housing number <sup>1)</sup> | Mass (approx.) |    |
|---------------------------------|------------------------------|----------------|----|
|                                 |                              | kg             | lb |
| UKX15D1;H2315X                  | FCX15D1                      | 8.2            |    |
| UKX15D1;HA2315                  | FCX15D1                      | 18             |    |
| UKX15D1;HE2315X                 | FCX15D1                      |                |    |
| UKX16D1;H2316X                  | FCX16D1                      | 12             |    |
| UKX16D1;HA2316                  | FCX16D1                      | 26             |    |
| UKX16D1;HE2316X                 | FCX16D1                      |                |    |
| UKX17D1;H2317X                  | FCX17D1                      | 12             |    |
| UKX17D1;HA2317X                 | FCX17D1                      | 26             |    |
| UKX17D1;HE2317X                 | FCX17D1                      |                |    |
| UKX18D1;H2318X                  | FCX18D1                      | 12             |    |
| UKX18D1;HA2318X                 | FCX18D1                      | 26             |    |
| UKFX20D1;H2320X                 | FCX20D1                      | 18             |    |

# Rhombus flanged units cast housing Adapter type



| Shaft<br>dia.                   | Unit number <sup>1) 2) 3)</sup>                                                | Nominal dimensions |                |                |                |               |           |                |                 |                |               | Bolt<br>size | Bearing number <sup>2) 3)</sup>                                        |
|---------------------------------|--------------------------------------------------------------------------------|--------------------|----------------|----------------|----------------|---------------|-----------|----------------|-----------------|----------------|---------------|--------------|------------------------------------------------------------------------|
|                                 |                                                                                | H                  | J              | A <sub>2</sub> | A <sub>1</sub> | A             | N         | L              | A <sub>0</sub>  | B <sub>1</sub> | F<br>min.     |              |                                                                        |
| mm<br>inch                      |                                                                                |                    |                |                |                |               |           |                |                 |                |               | mm<br>inch   |                                                                        |
| 20<br>3/4                       | UKFL205D1;H2305X<br>UKFL205D1;HE2305                                           | 130<br>5 1/8       | 99<br>3 57/64  | 16<br>5/8      | 13<br>1/2      | 27<br>1 1/16  | 16<br>5/8 | 68<br>2 11/16  | 35.5<br>1 25/64 | 35<br>1.378    | 30<br>1 3/16  | M14<br>1/2   | UK205D1;H2305X<br>UK205D1;HE2305                                       |
| 25<br>7/8<br>1                  | UKFL206D1;H2306X<br>UKFL206D1;HS2306<br>UKFL206D1;HE2306X                      | 148<br>5 13/16     | 117<br>4 39/64 | 18<br>45/64    | 13<br>1/2      | 31<br>1 7/32  | 16<br>5/8 | 80<br>3 5/32   | 39<br>1 17/32   | 38<br>1.496    | 36<br>1 13/32 | M14<br>1/2   | UK206D1;H2306X<br>UK206D1;HS2306<br>UK206D1;HE2306X                    |
| 30<br>1 1/8                     | UKFL207D1;H2307X<br>UKFL207D1;HS2307                                           | 161<br>6 11/32     | 130<br>5 1/8   | 19<br>3/4      | 15<br>19/32    | 34<br>1 11/32 | 16<br>5/8 | 90<br>3 17/32  | 42.5<br>1 43/64 | 43<br>1.693    | 40<br>1 9/16  | M14<br>1/2   | UK207D1;H2307X<br>UK207D1;HS2307                                       |
| 35<br>1 1/4<br>1 3/8            | UKFL208D1;H2308X<br>UKFL208D1;HE2308X<br>UKFL208D1;HS2308X                     | 175<br>6 7/8       | 144<br>5 43/64 | 21<br>53/64    | 15<br>19/32    | 36<br>1 13/32 | 16<br>5/8 | 100<br>3 15/16 | 46.5<br>1 53/64 | 46<br>1.811    | 46<br>1 13/16 | M14<br>1/2   | UK208D1;H2308X<br>UK208D1;HE2308X<br>UK208D1;HS2308X                   |
| 40<br>1 7/16<br>1 1/2<br>1 5/8  | UKFL209D1;H2309X<br>UKFL209D1;HA2309<br>UKFL209D1;HE2309X<br>UKFL209D1;HS2309X | 188<br>7 13/32     | 148<br>5 53/64 | 22<br>55/64    | 16<br>5/8      | 38<br>1 1/2   | 19<br>3/4 | 108<br>4 1/4   | 48.5<br>1 29/32 | 50<br>1.969    | 52<br>2 1/16  | M16<br>5/8   | UK209D1;H2309X<br>UK209D1;HA2309<br>UK209D1;HE2309X<br>UK209D1;HS2309X |
| 45<br>1 5/8<br>1 11/16<br>1 3/4 | UKFL210D1;H2310X<br>UKFL210D1;HS2310<br>UKFL210D1;HA2310<br>UKFL210D1;HE2310X  | 197<br>7 3/4       | 157<br>6 3/16  | 22<br>55/64    | 16<br>5/8      | 40<br>1 9/16  | 19<br>3/4 | 115<br>4 17/32 | 50<br>1 31/32   | 55<br>2.165    | 57<br>2 1/4   | M16<br>5/8   | UK210D1;H2310X<br>UK210D1;HS2310<br>UK210D1;HA2310<br>UK210D1;HE2310X  |
| 50<br>1 7/8<br>1 15/16<br>2     | UKFL211D1;H2311X<br>UKFL211D1;HS2311<br>UKFL211D1;HA2311<br>UKFL211D1;HE2311XY | 224<br>8 13/16     | 184<br>7 1/4   | 25<br>63/64    | 18<br>23/32    | 43<br>1 11/16 | 19<br>3/4 | 130<br>5 1/8   | 54.5<br>2 9/64  | 59<br>2.323    | 64<br>2 17/32 | M16<br>5/8   | UK211D1;H2311X<br>UK211D1;HS2311<br>UK211D1;HA2311<br>UK211D1;HE2311XY |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

2) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

In this case the lock washer with the straight inner prong should be used.

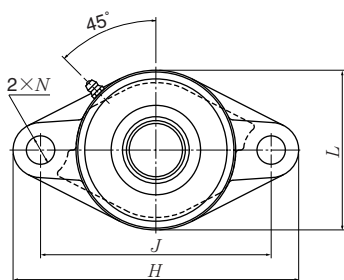
3) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.

To distinguish it, a suffix "Y" is added.

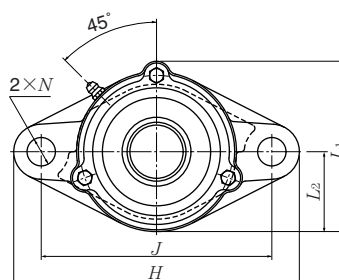
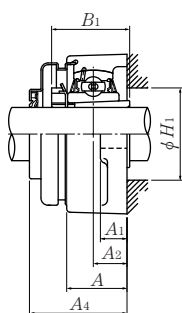
4) If the inch series housing units with dust cover are ordered with a closed end, the suffixes E, S or A are not included.

Example: SM-UKFL205D1; HE2305

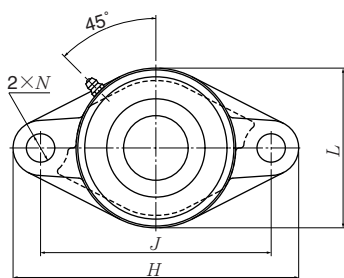
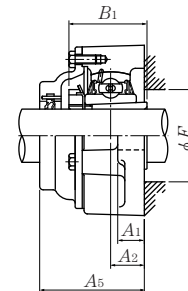
Note: Please refer to page 36 for size of grease fitting.



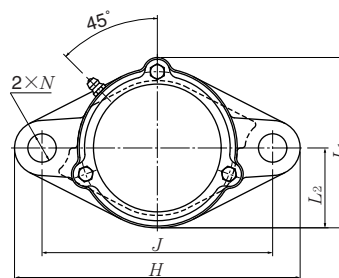
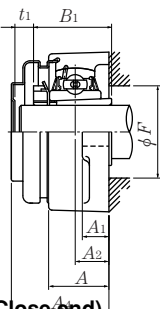
Press steel dust cover type (Open end)  
S-UKFL...D1



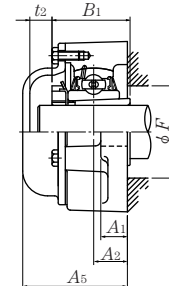
Cast dust cover type (Open end)  
C-UKFL...D1



Press steel dust cover type (Close end)  
SM-UKFL...D1

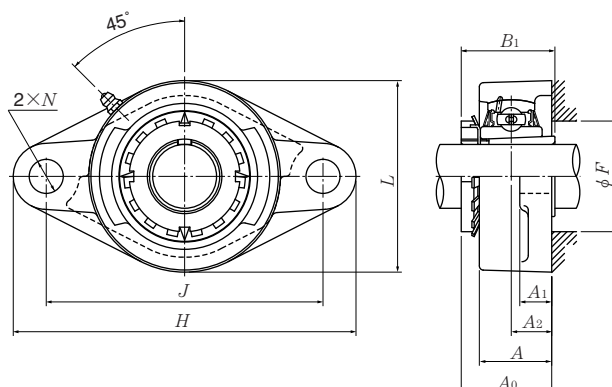


Cast dust cover type (Close end)  
CM-UKFL...D1



| Housing number <sup>1)</sup> | Unit number <sup>1) 2) 3) 4)</sup><br>pressed steel dust cover type | Unit number <sup>1) 2) 3) 4)</sup><br>cast dust cover type | Nominal dimensions |                |                |                |                |                | Mass (approx.) |       |       |
|------------------------------|---------------------------------------------------------------------|------------------------------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|-------|
|                              |                                                                     |                                                            | mm                 |                |                | inch           |                |                | kg             |       |       |
|                              |                                                                     |                                                            | t <sub>1</sub>     | t <sub>2</sub> | A <sub>4</sub> | A <sub>5</sub> | L <sub>1</sub> | L <sub>2</sub> | UKFL           | S(SM) | C(CM) |
| FL205D1                      | S(SM)-UKFL205D1;H2305X                                              | C(CM)-UKFL205D1;H2305X                                     | 7                  | 11             | 44.5           | 51             | 74             | 34             | 0.6            | 0.7   | 0.8   |
| FL205D1                      | S(SM)-UKFL205ED1;HE2305                                             | C(CM)-UKFL205ED1;HE2305                                    | 9/32               | 7/16           | 1 3/4          | 2              | 2 29/32        | 1 11/32        | 1.3            | 1.5   | 1.8   |
| FL206D1                      | S(SM)-UKFL206D1;H2306X                                              | C(CM)-UKFL206D1;H2306X                                     | 8                  | 13             | 49             | 56             | 85             | 40             | 0.9            | 1.0   | 1.2   |
| FL206D1                      | S(SM)-UKFL206SD1;HS2306                                             | C(CM)-UKFL206SD1;HS2306                                    | 5/16               | 33/64          | 1 15/16        | 2 7/32         | 3 11/32        | 1 9/16         | 2.0            | 2.2   | 2.7   |
| FL206D1                      | S(SM)-UKFL206ED1;HE2306X                                            | C(CM)-UKFL206ED1;HE2306X                                   |                    |                |                |                |                |                |                |       |       |
| FL207D1                      | S(SM)-UKFL207D1;H2307X                                              | C(CM)-UKFL207D1;H2307X                                     | 10                 | 12             | 55             | 59             | 97             | 45             | 1.3            | 1.3   | 1.6   |
| FL207D1                      | S(SM)-UKFL207SD1;HS2307                                             | C(CM)-UKFL207SD1;HS2307                                    | 25/64              | 15/32          | 2 5/32         | 2 5/16         | 3 13/16        | 1 25/32        | 2.9            | 2.9   | 3.5   |
| FL208D1                      | S(SM)-UKFL208D1;H2308X                                              | C(CM)-UKFL208D1;H2308X                                     | 13                 | 14             | 62             | 66             | 106            | 50             | 1.6            | 1.7   | 2.1   |
| FL208D1                      | S(SM)-UKFL208ED1;HE2308X                                            | C(CM)-UKFL208ED1;HE2308X                                   | 33/64              | 35/64          | 2 7/16         | 2 19/32        | 4 3/16         | 1 31/32        | 3.5            | 3.7   | 4.6   |
| FL208D1                      | S(SM)-UKFL208SD1;HS2308X                                            | C(CM)-UKFL208SD1;HS2308X                                   |                    |                |                |                |                |                |                |       |       |
| FL209D1                      | S(SM)-UKFL209D1;H2309X                                              | C(CM)-UKFL209D1;H2309X                                     | 12                 | 16             | 63             | 70             | 113            | 54             | 2.0            | 2.1   | 2.5   |
| FL209D1                      | S(SM)-UKFL209AD1;HA2309                                             | C(CM)-UKFL209AD1;HA2309                                    |                    |                |                |                |                |                |                |       |       |
| FL209D1                      | S(SM)-UKFL209ED1;HE2309X                                            | C(CM)-UKFL209ED1;HE2309X                                   | 15/32              | 5/8            | 2 15/32        | 2 3/4          | 4 7/16         | 2 1/8          | 4.4            | 4.6   | 5.5   |
| FL209D1                      | S(SM)-UKFL209SD1;HS2309X                                            | C(CM)-UKFL209SD1;HS2309X                                   |                    |                |                |                |                |                |                |       |       |
| FL210D1                      | S(SM)-UKFL210D1;H2310X                                              | C(CM)-UKFL210D1;H2310X                                     | 13                 | 17             | 65.5           | 72             | 120            | 58             | 2.2            | 2.4   | 2.9   |
| FL210D1                      | S(SM)-UKFL210SD1;HS2310                                             | C(CM)-UKFL210SD1;HS2310                                    |                    |                |                |                |                |                |                |       |       |
| FL210D1                      | S(SM)-UKFL210AD1;HA2310                                             | C(CM)-UKFL210AD1;HA2310                                    | 33/64              | 21/32          | 2 19/32        | 2 27/32        | 4 23/32        | 2 9/32         | 4.9            | 5.3   | 6.4   |
| FL210D1                      | S(SM)-UKFL210ED1;HE2310X                                            | C(CM)-UKFL210ED1;HE2310X                                   |                    |                |                |                |                |                |                |       |       |
| FL211D1                      | S(SM)-UKFL211D1;H2311X                                              | C(CM)-UKFL211D1;H2311X                                     | 14                 | 15             | 71             | 75             | 133            | 65             | 3.1            | 3.4   | 3.7   |
| FL211D1                      | S(SM)-UKFL211SD1;HS2311                                             | C(CM)-UKFL211SD1;HS2311                                    |                    |                |                |                |                |                |                |       |       |
| FL211D1                      | S(SM)-UKFL211AD1;HA2311                                             | C(CM)-UKFL211AD1;HA2311                                    | 35/64              | 19/32          | 2 25/32        | 2 15/16        | 5 1/4          | 2 9/16         | 6.8            | 7.5   | 8.2   |
| FL211D1                      | S(SM)-UKFL211ED1;HE2311XY                                           | C(CM)-UKFL211ED1;HE2311XY                                  |                    |                |                |                |                |                |                |       |       |

# Rhombus flanged units cast housing Adapter type



| Shaft<br>dia.<br><br>mm<br>inch | Unit number <sup>1) 2) 3)</sup>                                                | Nominal dimensions |                |                |                |               |             |                |                 |                |               | Bolt<br>size<br><br>mm<br>inch | Bearing number <sup>2) 3)</sup>                                        |
|---------------------------------|--------------------------------------------------------------------------------|--------------------|----------------|----------------|----------------|---------------|-------------|----------------|-----------------|----------------|---------------|--------------------------------|------------------------------------------------------------------------|
|                                 |                                                                                | H                  | J              | A <sub>2</sub> | A <sub>1</sub> | A             | N           | L              | A <sub>0</sub>  | B <sub>1</sub> | F<br>min.     |                                |                                                                        |
| 55<br>2 1/8                     | UKFL212D1;H2312X<br>UKFL212D1;HS2312                                           | 250<br>9 27/32     | 202<br>7 61/64 | 29<br>1 9/64   | 18<br>23/32    | 48<br>1 7/8   | 23<br>29/32 | 140<br>5 1/2   | 61<br>2 13/32   | 62<br>2.441    | 69<br>2 23/32 | M20<br>3/4                     | UK212D1;H2312X<br>UK212D1;HS2312                                       |
| 60<br>2 3/16<br>2 1/4<br>2 3/8  | UKFL213D1;H2313X<br>UKFL213D1;HA2313<br>UKFL213D1;HE2313X<br>UKFL213D1;HS2313X | 258<br>10 5/32     | 210<br>8 17/64 | 30<br>1 3/16   | 22<br>7/8      | 50<br>1 31/32 | 23<br>29/32 | 155<br>6 3/32  | 64<br>2 33/64   | 65<br>2.559    | 74<br>2 29/32 | M20<br>3/4                     | UK213D1;H2313X<br>UK213D1;HA2313<br>UK213D1;HE2313X<br>UK213D1;HS2313X |
| 65<br>2 7/16<br>2 1/2           | UKFL215D1;H2315X<br>UKFL215D1;HA2315<br>UKFL215D1;HE2315X                      | 275<br>10 13/16    | 225<br>8 55/64 | 34<br>1 11/32  | 22<br>7/8      | 56<br>2 7/32  | 23<br>29/32 | 165<br>6 1/2   | 71<br>2 51/64   | 73<br>2.874    | 84<br>3 5/16  | M20<br>3/4                     | UK215D1;H2315X<br>UK215D1;HA2315<br>UK215D1;HE2315X                    |
| 70<br>2 11/16<br>2 3/4          | UKFL216D1;H2316X<br>UKFL216D1;HA2316<br>UKFL216D1;HE2316X                      | 290<br>11 13/32    | 233<br>9 11/64 | 34<br>1 11/32  | 22<br>7/8      | 58<br>2 9/32  | 25<br>63/64 | 180<br>7 3/32  | 73.5<br>2 57/64 | 78<br>3.071    | 90<br>3 17/32 | M22<br>7/8                     | UK216D1;H2316X<br>UK216D1;HA2316<br>UK216D1;HE2316X                    |
| 75<br>2 15/16<br>3              | UKFL217D1;H2317X<br>UKFL217D1;HA2317X<br>UKFL217D1;HE2317X                     | 305<br>12          | 248<br>9 49/64 | 36<br>1 27/64  | 24<br>15/16    | 63<br>2 15/32 | 25<br>63/64 | 190<br>7 15/32 | 77<br>3 1/32    | 82<br>3.228    | 95<br>3 3/4   | M22<br>7/8                     | UK217D1;H2317X<br>UK217D1;HA2317X<br>UK217D1;HE2317X                   |
| 80<br>3 3/16                    | UKFL218D1;H2318X<br>UKFL218D1;HA2318X                                          | 320<br>12 19/32    | 265<br>10 7/16 | 40<br>1 37/64  | 24<br>15/16    | 68<br>2 11/16 | 25<br>63/64 | 205<br>8 1/16  | 81.5<br>3 13/64 | 86<br>3.386    | 102<br>4 1/32 | M22<br>7/8                     | UK218D1;H2318X<br>UK218D1;HA2318X                                      |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

2) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

In this case the lock washer with the straight inner prong should be used.

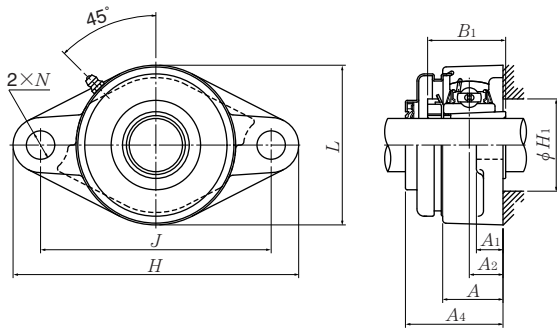
3) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.

To distinguish it, a suffix "Y" is added.

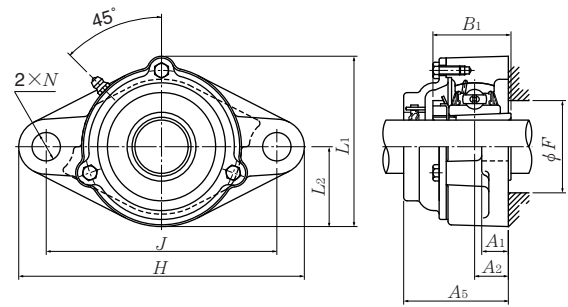
4) If the inch series housing units with dust cover are ordered with a closed end, the suffixes E, S or A are not included.

Example: SM-UKFL205D1; HE2305

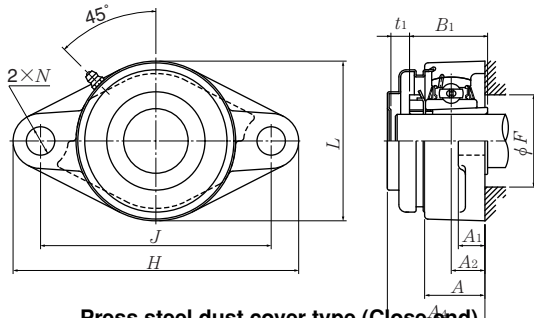
Note: Please refer to page 36 for size of grease fitting.



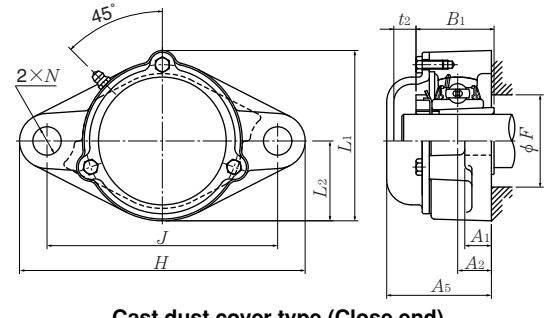
Press steel dust cover type (Open end)  
S-UKFL...D1



Cast dust cover type (Open end)  
C-UKFL...D1



Press steel dust cover type (Close end)  
SM-UKFL...D1

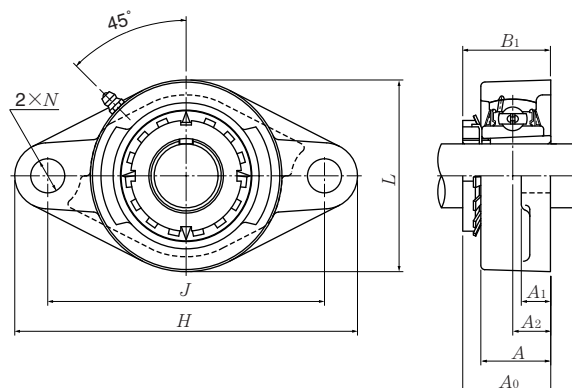


Cast dust cover type (Close end)  
CM-UKFL...D1

| Housing<br>number | Unit number 1) 2) 3) 4)<br>pressed steel dust cover type | Unit number 1) 2) 3) 4)<br>cast dust cover type | Nominal dimensions |                |                |                |                |                |  | Mass<br>(approx.) |       |       |
|-------------------|----------------------------------------------------------|-------------------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|--|-------------------|-------|-------|
|                   |                                                          |                                                 | mm                 |                |                |                | inch           |                |  | kg                |       |       |
|                   |                                                          |                                                 | t <sub>1</sub>     | t <sub>2</sub> | A <sub>4</sub> | A <sub>5</sub> | L <sub>1</sub> | L <sub>2</sub> |  | UKFL              | S(SM) | C(CM) |
| FL212D1           | S(SM)-UKFL212D1;H2312X                                   | C(CM)-UKFL212D1;H2312X                          | 16                 | 20             | 80             | 86             | 144            | 70             |  | 3.9               | 4.2   | 4.7   |
| FL212D1           | S(SM)-UKFL212SD1;HS2312                                  | C(CM)-UKFL212SD1;HS2312                         | 5/8                | 25/32          | 3 5/32         | 3 3/8          | 5 21/32        | 2 3/4          |  | 8.6               | 9.3   | 10    |
| FL213D1           | S(SM)-UKFL213D1;H2313X                                   | C(CM)-UKFL213D1;H2313X                          | 17                 | 21             | 83.5           | 90             | 157            | 78             |  | 5.0               | 5.4   | 6.0   |
| FL213D1           | S(SM)-UKFL213AD1;HA2313                                  | C(CM)-UKFL213AD1;HA2313                         |                    |                |                |                |                |                |  |                   |       |       |
| FL213D1           | S(SM)-UKFL213ED1;HE2313X                                 | C(CM)-UKFL213ED1;HE2313X                        | 2 1/32             | 1 13/16        | 3 9/32         | 3 17/32        | 6 3/16         | 3 1/16         |  | 11                | 12    | 13    |
| FL213D1           | S(SM)-UKFL213SD1;HS2313X                                 | C(CM)-UKFL213SD1;HS2313X                        |                    |                |                |                |                |                |  |                   |       |       |
| FL215D1           | —                                                        | C(CM)-UKFL215D1;H2315X                          | —                  | 25             | —              | 102            | 169            | 82             |  | 6.2               | —     | 7.6   |
| FL215D1           | —                                                        | C(CM)-UKFL215AD1;HA2315                         | —                  | 6 3/64         | —              | 4 1/32         | 6 21/32        | 3 7/32         |  | 14                | —     | 17    |
| FL215D1           | —                                                        | C(CM)-UKFL215ED1;HE2315X                        |                    |                |                |                |                |                |  |                   |       |       |
| FL216D1           | —                                                        | C(CM)-UKFL216D1;H2316X                          | —                  | 26             | —              | 106            | 183            | 90             |  | 7.9               | —     | 9.3   |
| FL216D1           | —                                                        | C(CM)-UKFL216AD1;HA2316                         | —                  | 1 1/32         | —              | 4 3/16         | 7 7/32         | 3 17/32        |  | 17                | —     | 21    |
| FL216D1           | —                                                        | C(CM)-UKFL216ED1;HE2316X                        |                    |                |                |                |                |                |  |                   |       |       |
| FL217D1           | —                                                        | C(CM)-UKFL217D1;H2317X                          | —                  | 31             | —              | 114            | 192            | 95             |  | 9.2               | —     | 11    |
| FL217D1           | —                                                        | C(CM)-UKFL217AD1;HA2317X                        | —                  | 1 7/32         | —              | 4 1/2          | 7 9/16         | 3 3/4          |  | 20                | —     | 24    |
| FL217D1           | —                                                        | C(CM)-UKFL217ED1;HE2317X                        |                    |                |                |                |                |                |  |                   |       |       |
| FL218D1           | —                                                        | C(CM)-UKFL218D1;H2318X                          | —                  | 34             | —              | 122            | 205            | 102            |  | 11                | —     | 13    |
| FL218D1           | —                                                        | C(CM)-UKFL218AD1;HA2318X                        | —                  | 1 11/32        | —              | 4 13/16        | 8 1/16         | 4 1/32         |  | 24                | —     | 29    |



# Rhombus flanged units cast housing Adapter type



| Shaft<br>dia.                   | Unit number <sup>1) 2) 3)</sup>                                                | Nominal dimensions |                |                |                |               |              |                |                 |                | Bolt<br>size | Bearing number <sup>2) 3)</sup>                                        |
|---------------------------------|--------------------------------------------------------------------------------|--------------------|----------------|----------------|----------------|---------------|--------------|----------------|-----------------|----------------|--------------|------------------------------------------------------------------------|
|                                 |                                                                                | H                  | J              | A <sub>2</sub> | A <sub>1</sub> | A             | N            | L              | A <sub>0</sub>  | B <sub>1</sub> |              |                                                                        |
| mm<br>inch                      |                                                                                |                    |                |                |                |               |              |                |                 |                | mm<br>inch   |                                                                        |
| 20<br>3/4                       | UKFL305D1;H2305X<br>UKFL305D1;HE2305                                           | 150<br>5 29/32     | 113<br>4 29/64 | 16<br>5/8      | 13<br>1/2      | 29<br>1 5/32  | 19<br>3/4    | 80<br>3 1/2    | 37<br>1 29/64   | 35<br>1.378    | M16<br>5/8   | UK305D1;H2305X<br>UK305D1;HE2305                                       |
| 25<br>7/8<br>1                  | UKFL306D1;H2306X<br>UKFL306D1;HS2306<br>UKFL306D1;HE2306X                      | 180<br>7 3/32      | 134<br>5 9/32  | 18<br>45/64    | 15<br>19/32    | 32<br>1 1/4   | 23<br>29/32  | 90<br>3 17/32  | 40.5<br>1 19/32 | 38<br>1.496    | M20<br>3/4   | UK306D1;H2306X<br>UK306D1;HS2306<br>UK306D1;HE2306X                    |
| 30<br>1 1/8                     | UKFL307D1;H2307X<br>UKFL307D1;HS2307                                           | 185<br>7 9/32      | 141<br>5 35/64 | 20<br>25/32    | 16<br>5/8      | 36<br>1 13/32 | 23<br>29/32  | 100<br>3 15/16 | 45.5<br>1 51/64 | 43<br>1.693    | M20<br>3/4   | UK307D1;H2307X<br>UK307D1;HS2307                                       |
| 35<br>1 1/4<br>1 3/8            | UKFL308D1;H2308X<br>UKFL308D1;HE2308X<br>UKFL308D1;HS2308X                     | 200<br>7 7/8       | 158<br>6 7/32  | 23<br>29/32    | 17<br>21/32    | 40<br>1 9/16  | 23<br>29/32  | 112<br>4 13/32 | 50<br>1 31/32   | 46<br>1.811    | M20<br>3/4   | UK308D1;H2308X<br>UK308D1;HE2308X<br>UK308D1;HS2308X                   |
| 40<br>1 7/16<br>1 1/2<br>1 5/8  | UKFL309D1;H2309X<br>UKFL309D1;HA2309<br>UKFL309D1;HE2309X<br>UKFL309D1;HS2309X | 230<br>9 1/16      | 177<br>6 31/32 | 25<br>63/64    | 18<br>23/32    | 44<br>1 23/32 | 25<br>63/64  | 125<br>4 29/32 | 54.5<br>2 9/64  | 50<br>1.969    | M22<br>7/8   | UK309D1;H2309X<br>UK309D1;HA2309<br>UK309D1;HE2309X<br>UK309D1;HS2309X |
| 45<br>1 5/8<br>1 11/16<br>1 3/4 | UKFL310D1;H2310X<br>UKFL310D1;HS2310<br>UKFL310D1;HA2310<br>UKFL310D1;HE2310X  | 240<br>9 7/16      | 187<br>7 23/64 | 28<br>1 7/64   | 19<br>3/4      | 48<br>1 7/8   | 25<br>63/64  | 140<br>5 1/2   | 60.5<br>2 3/8   | 55<br>2.165    | M22<br>7/8   | UK310D1;H2310X<br>UK310D1;HS2310<br>UK310D1;HA2310<br>UK310D1;HE2310X  |
| 50<br>1 7/8<br>1 15/16<br>2     | UKFL311D1;H2311X<br>UKFL311D1;HS2311<br>UKFL311D1;HA2311<br>UKFL311D1;HE2311XY | 250<br>9 27/32     | 198<br>7 51/64 | 30<br>1 3/16   | 20<br>25/32    | 52<br>2 1/16  | 25<br>63/64  | 150<br>5 29/32 | 64<br>2 33/64   | 59<br>2.323    | M22<br>7/8   | UK311D1;H2311X<br>UK311D1;HS2311<br>UK311D1;HA2311<br>UK311D1;HE2311XY |
| 55<br>2 1/8                     | UKFL312D1;H2312X<br>UKFL312D1;HS2312                                           | 270<br>10 5/8      | 212<br>8 11/32 | 33<br>1 19/64  | 22<br>7/8      | 56<br>2 7/32  | 31<br>1 7/32 | 160<br>6 5/16  | 69.5<br>2 47/64 | 62<br>2.441    | M27<br>1     | UK312D1;H2312X<br>UK312D1;HS2312                                       |
| 60<br>2 3/16<br>2 1/4<br>2 3/8  | UKFL313D1;H2313X<br>UKFL313D1;HA2313<br>UKFL313D1;HE2313X<br>UKFL313D1;HS2313X | 295<br>11 5/8      | 240<br>9 29/64 | 33<br>1 19/64  | 25<br>31/32    | 58<br>2 9/32  | 31<br>1 7/32 | 175<br>6 7/8   | 71.5<br>2 13/16 | 65<br>2.559    | M27<br>1     | UK313D1;H2313X<br>UK313D1;HA2313<br>UK313D1;HE2313X<br>UK313D1;HS2313X |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

2) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

In this case the lock washer with the straight inner prong should be used.

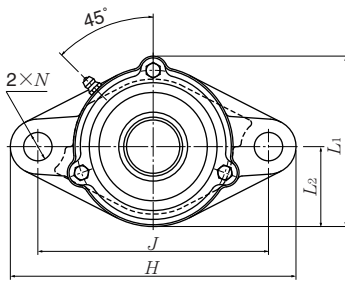
3) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.

To distinguish it, a suffix "Y" is added.

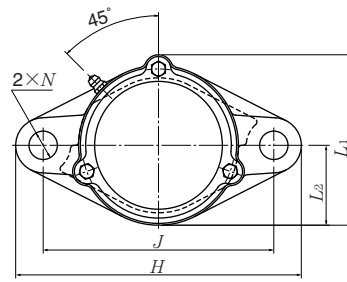
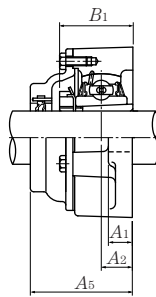
4) If the inch series housing units with dust cover are ordered with a closed end, the suffixes E, S or A are not included.

Example: CM-UKFL305D1; HE2305

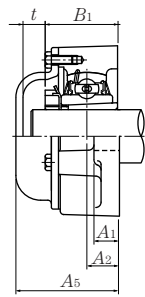
Note: Please refer to page 36 for size of grease fitting.



Cast dust cover type (Open end)  
C-UKFL...D1

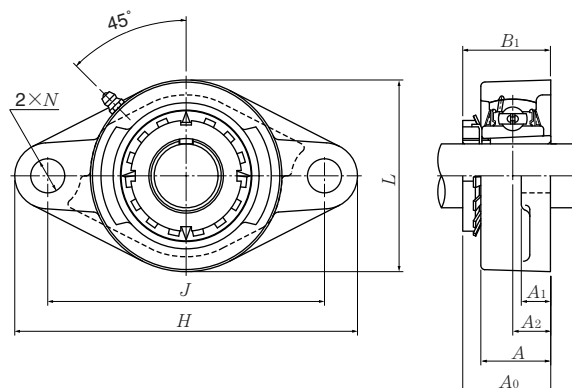


Cast dust cover type (Close end)  
CM-UKFL...D1



| Housing <sup>1)</sup><br>number | Unit number <sup>1) 2) 3) 4)</sup><br>cast dust cover type | Nominal dimensions |                  |                  |                  | Mass<br>(approx.) |       |
|---------------------------------|------------------------------------------------------------|--------------------|------------------|------------------|------------------|-------------------|-------|
|                                 |                                                            | mm                 |                  | inch             |                  | kg                | lb    |
|                                 |                                                            | t                  | A <sub>5</sub>   | L <sub>1</sub>   | L <sub>2</sub>   | UKFL              | C(CM) |
| FL305D1                         | C(CM)-UKFL305D1;H2305X                                     | 14                 | 56               | 86               | 40               | 1.0               | 1.3   |
| FL305D1                         | C(CM)-UKFL305ED1;HE2305                                    | $\frac{35}{64}$    | $2\frac{7}{32}$  | $3\frac{3}{8}$   | $1\frac{9}{16}$  | 2.2               | 2.9   |
| FL306D1                         | C(CM)-UKFL306D1;H2306X                                     | 14                 | 60               | 101              | 45               | 1.5               | 1.8   |
| FL306D1                         | C(CM)-UKFL306SD1;HS2306                                    | $\frac{35}{64}$    | $2\frac{3}{8}$   | $3\frac{31}{32}$ | $1\frac{25}{32}$ | 3.3               | 4.0   |
| FL306D1                         | C(CM)-UKFL306ED1;HE2306X                                   |                    |                  |                  |                  |                   |       |
| FL307D1                         | C(CM)-UKFL307D1;H2307X                                     | 17                 | 68               | 110              | 50               | 1.8               | 2.2   |
| FL307D1                         | C(CM)-UKFL307SD1;HS2307                                    | $2\frac{1}{32}$    | $2\frac{11}{16}$ | $4\frac{11}{32}$ | $1\frac{31}{32}$ | 4.0               | 4.9   |
| FL308D1                         | C(CM)-UKFL308D1;H2308X                                     | 20                 | 76               | 122              | 56               | 2.2               | 3.0   |
| FL308D1                         | C(CM)-UKFL308ED1;HE2308X                                   | $2\frac{5}{32}$    | 3                | $4\frac{13}{16}$ | $2\frac{7}{32}$  | 4.9               | 6.6   |
| FL308D1                         | C(CM)-UKFL308SD1;HS2308X                                   |                    |                  |                  |                  |                   |       |
| FL309D1                         | C(CM)-UKFL309D1;H2309X                                     | 19                 | 80               | 135              | 62               | 3.0               | 3.9   |
| FL309D1                         | C(CM)-UKFL309AD1;HA2309                                    |                    |                  |                  |                  |                   |       |
| FL309D1                         | C(CM)-UKFL309ED1;HE2309X                                   | $\frac{3}{4}$      | $3\frac{5}{32}$  | $5\frac{5}{16}$  | $2\frac{7}{16}$  | 6.6               | 8.6   |
| FL309D1                         | C(CM)-UKFL309SD1;HS2309X                                   |                    |                  |                  |                  |                   |       |
| FL310D1                         | C(CM)-UKFL310D1;H2310X                                     | 21                 | 88               | 152              | 70               | 4.1               | 5.1   |
| FL310D1                         | C(CM)-UKFL310SD1;HS2310                                    |                    |                  |                  |                  |                   |       |
| FL310D1                         | C(CM)-UKFL310AD1;HA2310                                    | $1\frac{3}{16}$    | $3\frac{15}{32}$ | $5\frac{31}{32}$ | $2\frac{3}{4}$   | 9.0               | 11    |
| FL310D1                         | C(CM)-UKFL310ED1;HE2310X                                   |                    |                  |                  |                  |                   |       |
| FL311D1                         | C(CM)-UKFL311D1;H2311X                                     | 22                 | 92               | 162              | 75               | 4.6               | 6.0   |
| FL311D1                         | C(CM)-UKFL311SD1;HS2311                                    |                    |                  |                  |                  |                   |       |
| FL311D1                         | C(CM)-UKFL311AD1;HA2311                                    | $\frac{7}{8}$      | $3\frac{5}{8}$   | $6\frac{3}{8}$   | $2\frac{15}{16}$ | 10                | 13    |
| FL311D1                         | C(CM)-UKFL311ED1;HE2311XY                                  |                    |                  |                  |                  |                   |       |
| FL312D1                         | C(CM)-UKFL312D1;H2312X                                     | 24                 | 100              | 175              | 80               | 5.7               | 7.7   |
| FL312D1                         | C(CM)-UKFL312SD1;HS2312                                    | $1\frac{5}{16}$    | $3\frac{15}{16}$ | $6\frac{7}{8}$   | $3\frac{5}{32}$  | 13                | 17    |
| FL313D1                         | C(CM)-UKFL313D1;H2313X                                     | 25                 | 103              | 189              | 88               | 7.4               | 9.8   |
| FL313D1                         | C(CM)-UKFL313AD1;HA2313                                    |                    |                  |                  |                  |                   |       |
| FL313D1                         | C(CM)-UKFL313ED1;HE2313X                                   | $6\frac{3}{64}$    | $4\frac{1}{16}$  | $7\frac{7}{16}$  | $3\frac{15}{32}$ | 16                | 22    |
| FL313D1                         | C(CM)-UKFL313SD1;HS2313X                                   |                    |                  |                  |                  |                   |       |

# Rhombus flanged units cast housing Adapter type



| Shaft<br>dia.                                                          | Unit number <sup>1) 2) 3)</sup>                            | Nominal dimensions                      |                                         |                                       |                                       |                                       |                                       |                                        |                                          |                       |                                      | Bolt<br>size                                         | Bearing number <sup>2) 3)</sup> |
|------------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------|-----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|----------------------------------------|------------------------------------------|-----------------------|--------------------------------------|------------------------------------------------------|---------------------------------|
|                                                                        |                                                            | mm                                      |                                         |                                       |                                       |                                       | inch                                  |                                        |                                          |                       |                                      |                                                      |                                 |
|                                                                        |                                                            | <i>H</i>                                | <i>J</i>                                | <i>A</i> <sub>2</sub>                 | <i>A</i> <sub>1</sub>                 | <i>A</i>                              | <i>N</i>                              | <i>L</i>                               | <i>A</i> <sub>0</sub>                    | <i>B</i> <sub>1</sub> |                                      |                                                      |                                 |
| mm<br>inch                                                             |                                                            |                                         |                                         |                                       |                                       |                                       |                                       |                                        |                                          |                       | mm<br>inch                           |                                                      |                                 |
| 65<br>2 <sup>7</sup> / <sub>16</sub><br>2 <sup>1</sup> / <sub>2</sub>  | UKFL315D1;H2315X<br>UKFL315D1;HA2315<br>UKFL315D1;HE2315X  | 320<br>12 <sup>19</sup> / <sub>32</sub> | 260<br>10 <sup>15</sup> / <sub>64</sub> | 39<br>1 <sup>17</sup> / <sub>32</sub> | 30<br>1 <sup>3</sup> / <sub>16</sub>  | 66<br>2 <sup>19</sup> / <sub>32</sub> | 35<br>1 <sup>3</sup> / <sub>8</sub>   | 195<br>7 <sup>11</sup> / <sub>16</sub> | 81.5<br>3 <sup>13</sup> / <sub>64</sub>  | 73<br>2.874           | M30<br>1 <sup>1</sup> / <sub>8</sub> | UK315D1;H2315X<br>UK315D1;HA2315<br>UK315D1;HE2315X  |                                 |
| 70<br>2 <sup>11</sup> / <sub>16</sub><br>2 <sup>3</sup> / <sub>4</sub> | UKFL316D1;H2316X<br>UKFL316D1;HA2316<br>UKFL316D1;HE2316X  | 355<br>13 <sup>31</sup> / <sub>32</sub> | 285<br>11 <sup>7</sup> / <sub>32</sub>  | 38<br>1 <sup>1</sup> / <sub>2</sub>   | 32<br>1 <sup>1</sup> / <sub>4</sub>   | 68<br>2 <sup>11</sup> / <sub>16</sub> | 38<br>1 <sup>1</sup> / <sub>2</sub>   | 210<br>8 <sup>9</sup> / <sub>32</sub>  | 84<br>3 <sup>5</sup> / <sub>16</sub>     | 78<br>3.071           | M33<br>1 <sup>1</sup> / <sub>4</sub> | UK316D1;H2316X<br>UK316D1;HA2316<br>UK316D1;HE2316X  |                                 |
| 75<br>2 <sup>15</sup> / <sub>16</sub><br>3                             | UKFL317D1;H2317X<br>UKFL317D1;HA2317X<br>UKFL317D1;HE2317X | 370<br>14 <sup>9</sup> / <sub>16</sub>  | 300<br>11 <sup>13</sup> / <sub>16</sub> | 44<br>1 <sup>47</sup> / <sub>64</sub> | 32<br>1 <sup>1</sup> / <sub>4</sub>   | 74<br>2 <sup>29</sup> / <sub>32</sub> | 38<br>1 <sup>1</sup> / <sub>2</sub>   | 220<br>8 <sup>21</sup> / <sub>32</sub> | 92<br>3 <sup>5</sup> / <sub>8</sub>      | 82<br>3.228           | M33<br>1 <sup>1</sup> / <sub>4</sub> | UK317D1;H2317X<br>UK317D1;HA2317X<br>UK317D1;HE2317X |                                 |
| 80<br>3 <sup>3</sup> / <sub>16</sub>                                   | UKFL318D1;H2318X<br>UKFL318D1;HA2318X                      | 385<br>15 <sup>5</sup> / <sub>32</sub>  | 315<br>12 <sup>13</sup> / <sub>32</sub> | 44<br>1 <sup>47</sup> / <sub>64</sub> | 36<br>1 <sup>13</sup> / <sub>32</sub> | 76<br>3                               | 38<br>1 <sup>1</sup> / <sub>2</sub>   | 235<br>9 <sup>1</sup> / <sub>4</sub>   | 94<br>3 <sup>45</sup> / <sub>64</sub>    | 86<br>3.386           | M33<br>1 <sup>1</sup> / <sub>4</sub> | UK318D1;H2318X<br>UK318D1;HA2318X                    |                                 |
| 85<br>3 <sup>1</sup> / <sub>4</sub>                                    | UKFL319D1;H2319X<br>UKFL319D1;HE2319X                      | 405<br>15 <sup>15</sup> / <sub>16</sub> | 330<br>12 <sup>63</sup> / <sub>64</sub> | 59<br>2 <sup>21</sup> / <sub>64</sub> | 40<br>1 <sup>9</sup> / <sub>16</sub>  | 94<br>3 <sup>11</sup> / <sub>16</sub> | 41<br>1 <sup>39</sup> / <sub>64</sub> | 250<br>9 <sup>27</sup> / <sub>32</sub> | 111.5<br>4 <sup>25</sup> / <sub>64</sub> | 90<br>3.543           | M36<br>1 <sup>3</sup> / <sub>8</sub> | UK319D1;H2319X<br>UK319D1;HE2319X                    |                                 |
| 90<br>3 <sup>7</sup> / <sub>16</sub><br>3 <sup>1</sup> / <sub>2</sub>  | UKFL320D1;H2320X<br>UKFL320D1;HA2320<br>UKFL320D1;HE2320X  | 440<br>17 <sup>5</sup> / <sub>16</sub>  | 360<br>14 <sup>11</sup> / <sub>64</sub> | 59<br>2 <sup>21</sup> / <sub>64</sub> | 40<br>1 <sup>9</sup> / <sub>16</sub>  | 94<br>3 <sup>11</sup> / <sub>16</sub> | 44<br>1 <sup>47</sup> / <sub>64</sub> | 270<br>10 <sup>5</sup> / <sub>8</sub>  | 115.5<br>4 <sup>35</sup> / <sub>64</sub> | 97<br>3.819           | M39<br>1 <sup>1</sup> / <sub>2</sub> | UK320D1;H2320X<br>UK320D1;HA2320<br>UK320D1;HE2320X  |                                 |
| 100                                                                    | UKFL322D1;H2322X                                           | 470                                     | 390                                     | 60                                    | 42                                    | 96                                    | 44                                    | 300                                    | 121                                      | 105                   | M39                                  | UK322D1;H2322X                                       |                                 |
| 110                                                                    | UKFL324D1;H2324X                                           | 520                                     | 430                                     | 65                                    | 48                                    | 110                                   | 47                                    | 330                                    | 130                                      | 112                   | M42                                  | UK324D1;H2324X                                       |                                 |
| 115                                                                    | UKFL326D1;H2326                                            | 550                                     | 460                                     | 65                                    | 50                                    | 115                                   | 47                                    | 360                                    | 133                                      | 121                   | M42                                  | UK326D1;H2326                                        |                                 |
| 125                                                                    | UKFL328D1;H2328                                            | 600                                     | 500                                     | 75                                    | 60                                    | 125                                   | 51                                    | 400                                    | 146.5                                    | 131                   | M45                                  | UK328D1;H2328                                        |                                 |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

2) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

In this case the lock washer with the straight inner prong should be used.

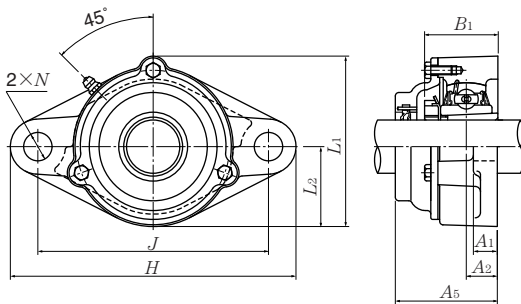
3) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.

To distinguish it, a suffix "Y" is added.

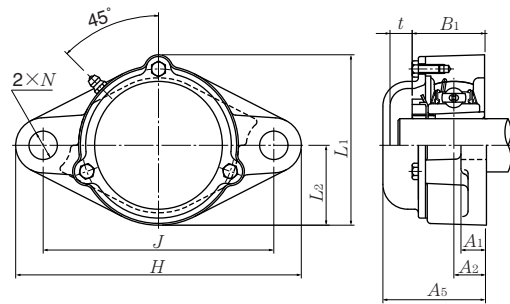
4) If the inch series housing units with dust cover are ordered with a closed end, the suffixes E, S or A are not included.

Example: CM-UKFL305D1; HE2305

Note: Please refer to page 36 for size of grease fitting.



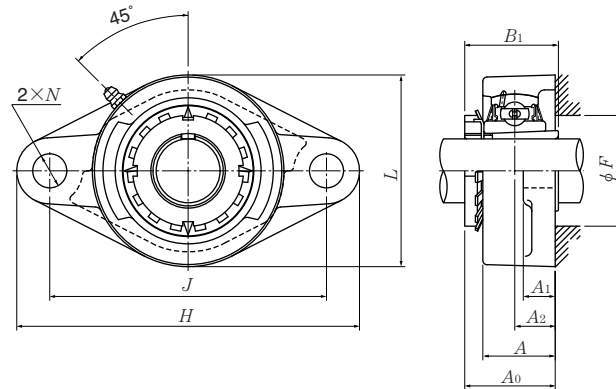
Cast dust cover type (Open end)  
C-UKFL...D1



Cast dust cover type (Close end)  
CM-UKFL...D1

| Housing <sup>1)</sup><br>number | Unit number <sup>1) 2) 3) 4)</sup><br>cast dust cover type | Nominal dimensions             |                                |                                 |                                 | Mass<br>(approx.) |       |
|---------------------------------|------------------------------------------------------------|--------------------------------|--------------------------------|---------------------------------|---------------------------------|-------------------|-------|
|                                 |                                                            | mm                             |                                | inch                            |                                 | kg                | lb    |
|                                 |                                                            | t                              | A <sub>5</sub>                 | L <sub>1</sub>                  | L <sub>2</sub>                  | UKFL              | C(CM) |
| FL315D1                         | C(CM)-UKFL315D1;H2315X                                     | 26                             | 114                            | 210                             | 98                              | 9.9               | 13    |
| FL315D1                         | C(CM)-UKFL315AD1;HA2315                                    | 1 <sup>1</sup> / <sub>32</sub> | 4 <sup>1</sup> / <sub>2</sub>  | 8 <sup>9</sup> / <sub>32</sub>  | 3 <sup>27</sup> / <sub>32</sub> | 22                | 29    |
| FL315D1                         | C(CM)-UKFL315ED1;HE2315X                                   |                                |                                |                                 |                                 |                   |       |
| FL316D1                         | C(CM)-UKFL316D1;H2316X                                     | 25                             | 116                            | 222                             | 105                             | 13                | 17    |
| FL316D1                         | C(CM)-UKFL316AD1;HA2316                                    | 6 <sup>3</sup> / <sub>64</sub> | 4 <sup>9</sup> / <sub>16</sub> | 8 <sup>3</sup> / <sub>4</sub>   | 4 <sup>1</sup> / <sub>8</sub>   | 29                | 37    |
| FL316D1                         | C(CM)-UKFL316ED1;HE2316X                                   |                                |                                |                                 |                                 |                   |       |
| FL317D1                         | C(CM)-UKFL317D1;H2317X                                     | 27                             | 127                            | 234                             | 110                             | 15                | 18    |
| FL317D1                         | C(CM)-UKFL317AD1;HA2317X                                   | 1 <sup>1</sup> / <sub>16</sub> | 5                              | 9 <sup>7</sup> / <sub>32</sub>  | 4 <sup>11</sup> / <sub>32</sub> | 33                | 40    |
| FL317D1                         | C(CM)-UKFL317ED1;HE2317X                                   |                                |                                |                                 |                                 |                   |       |
| FL318D1                         | C(CM)-UKFL318D1;H2318X                                     | 27                             | 129                            | 247                             | 118                             | 18                | 22    |
| FL318D1                         | C(CM)-UKFL318AD1;HA2318X                                   | 1 <sup>1</sup> / <sub>16</sub> | 5 <sup>3</sup> / <sub>32</sub> | 9 <sup>23</sup> / <sub>32</sub> | 4 <sup>21</sup> / <sub>32</sub> | 40                | 49    |
| FL319D1                         | C(CM)-UKFL319D1;H2319X                                     | 29                             | 149                            | 260                             | 125                             | 22                | 27    |
| FL319D1                         | C(CM)-UKFL319ED1;HE2319X                                   | 1 <sup>5</sup> / <sub>32</sub> | 5 <sup>7</sup> / <sub>8</sub>  | 10 <sup>1</sup> / <sub>4</sub>  | 4 <sup>29</sup> / <sub>32</sub> | 49                | 60    |
| FL320D1                         | C(CM)-UKFL320D1;H2320X                                     | 29                             | 154                            | 280                             | 135                             | 26                | 32    |
| FL320D1                         | C(CM)-UKFL320AD1;HA2320                                    | 1 <sup>5</sup> / <sub>32</sub> | 6 <sup>1</sup> / <sub>16</sub> | 11 <sup>1</sup> / <sub>32</sub> | 5 <sup>5</sup> / <sub>16</sub>  | 57                | 71    |
| FL320D1                         | C(CM)-UKFL320ED1;HE2320X                                   |                                |                                |                                 |                                 |                   |       |
| FL322D1                         | C(CM)-UKFL322D1;H2322X                                     | 30                             | 160                            | 315                             | 150                             | 34                | 41    |
| FL324D1                         | C(CM)-UKFL324D1;H2324X                                     | 32                             | 172                            | 342                             | 165                             | 47                | 52    |
| FL326D1                         | C(CM)-UKFL326D1;H2326                                      | 35                             | 178                            | 376                             | 180                             | 58                | 65    |
| FL328D1                         | C(CM)-UKFL328D1;H2328                                      | 35                             | 192                            | 410                             | 200                             | 82                | 90    |

# Rhombus flanged units cast housing Adapter type



| Shaft dia.           | Unit number <sup>1) 2)</sup>                                                   | Nominal dimensions |           |                       |                       |                |                  |           |                       |                       |                  | Bolt size  |
|----------------------|--------------------------------------------------------------------------------|--------------------|-----------|-----------------------|-----------------------|----------------|------------------|-----------|-----------------------|-----------------------|------------------|------------|
| mm<br>inch           |                                                                                | <i>H</i>           | <i>J</i>  | <i>A</i> <sub>2</sub> | <i>A</i> <sub>1</sub> | mm<br><i>A</i> | inch<br><i>N</i> | <i>L</i>  | <i>A</i> <sub>0</sub> | <i>B</i> <sub>1</sub> | <i>F</i><br>min. | mm<br>inch |
| 20<br>¾              | UKFLX05D1;H2305X<br>UKFLX05D1;HE2305                                           | 141<br>5⅞          | 117<br>4⅜ | 18<br>⅔               | 13<br>½               | 30<br>1⅜       | 12<br>⅝          | 83<br>3⅞  | 39<br>1⅞              | 35<br>1.378           | 30<br>1⅜         | M10<br>⅜   |
| 25<br>⅞<br>1         | UKFLX06D1;H2306X<br>UKFLX06D1;HS2306<br>UKFLX06D1;HE2306X                      | 156<br>6⅝          | 130<br>5⅛ | 19<br>¾               | 15<br>⅞               | 34<br>1⅞       | 16<br>⅝          | 95<br>3¾  | 41.5<br>1⅔            | 38<br>1.496           | 36<br>1⅜         | M14<br>½   |
| 30<br>1⅛             | UKFLX07D1;H2307X<br>UKFLX07D1;HS2307                                           | 171<br>6⅔          | 144<br>5⅔ | 21<br>⅝               | 16<br>⅝               | 38<br>1½       | 16<br>⅝          | 105<br>4⅛ | 45.5<br>1⅔            | 43<br>1.693           | 40<br>1⅞         | M14<br>½   |
| 35<br>1¼<br>1⅜       | UKFLX08D1;H2308X<br>UKFLX08D1;HE2308X<br>UKFLX08D1;HS2308X                     | 179<br>7⅞          | 148<br>5⅔ | 22<br>⅝               | 16<br>⅝               | 40<br>1⅞       | 16<br>⅝          | 111<br>4⅜ | 47.5<br>1⅞            | 46<br>1.811           | 46<br>1⅜         | M14<br>½   |
| 40<br>1⅞<br>1½<br>1⅝ | UKFLX09D1;H2309X<br>UKFLX09D1;HA2309<br>UKFLX09D1;HE2309X<br>UKFLX09D1;HS2309X | 189<br>7⅞          | 157<br>6⅜ | 23<br>⅔               | 16<br>⅝               | 40<br>1⅞       | 16<br>⅝          | 116<br>4⅞ | 50<br>1⅔              | 50<br>1.969           | 52<br>2⅞         | M14<br>½   |
| 45<br>1⅝<br>1⅞<br>1⅜ | UKFLX10D1;H2310X<br>UKFLX10D1;HS2310<br>UKFLX10D1;HA2310<br>UKFLX10D1;HE2310X  | 216<br>8½          | 184<br>7¼ | 26<br>1⅜              | 18<br>⅔               | 44<br>1⅔       | 19<br>¾          | 133<br>5¼ | 55.5<br>2⅞            | 55<br>2.165           | 57<br>2¼         | M16<br>⅝   |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

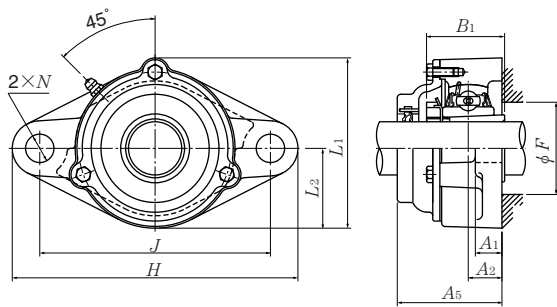
2) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

In this case the lock washer with the straight inner prong should be used.

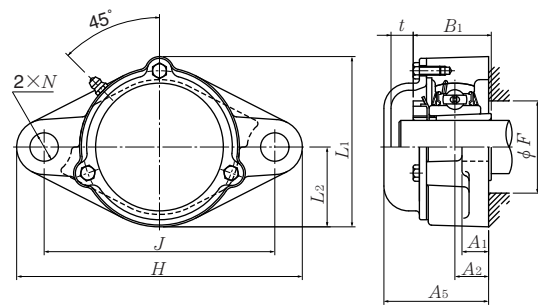
3) If the inch series housing units with dust cover are ordered with a closed end, the suffixes E, S or A are not included.

Example: CM-UKFLX05D1; HE2305

Note: Please refer to page 36 for size of grease fitting.



Cast dust cover type (Open end)  
C-UKFL...D1

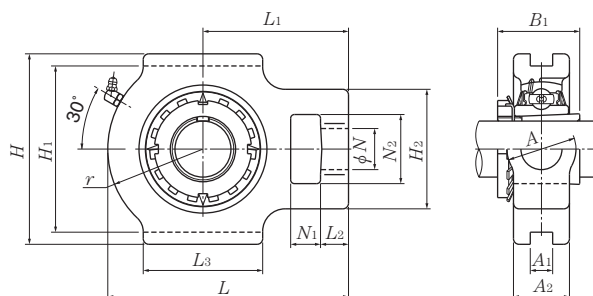


Cast dust cover type (Close end)  
CM-UKFL...D1

| Bearing number <sup>2)</sup> | Housing <sup>1)</sup><br>number | Unit number <sup>1) 2) 3)</sup><br>cast dust cover type | Nominal dimensions |                  |                  |                  | Mass<br>(approx.) |       |
|------------------------------|---------------------------------|---------------------------------------------------------|--------------------|------------------|------------------|------------------|-------------------|-------|
|                              |                                 |                                                         | mm                 |                  | inch             |                  | kg                | lb    |
|                              |                                 |                                                         | t                  | A <sub>5</sub>   | L <sub>1</sub>   | L <sub>2</sub>   | UKFLX             | C(CM) |
| UKX05D1;H2305X               | FLX05D1                         | C(CM)-UKFLX05D1;H2305X                                  | 13                 | 56               | 86               | 41.5             | 1.0               | 1.2   |
| UKX05D1;HE2305               | FLX05D1                         | C(CM)-UKFLX05ED1;HE2305                                 | $\frac{33}{64}$    | $2\frac{7}{32}$  | $3\frac{3}{8}$   | $1\frac{5}{8}$   | 2.2               | 2.7   |
| UKX06D1;H2306X               | FLX06D1                         | C(CM)-UKFLX06D1;H2306X                                  | 13                 | 59               | 98.5             | 49.5             | 1.4               | 1.6   |
| UKX06D1;HS2306               | FLX06D1                         | C(CM)-UKFLX06SD1;HS2306                                 | $\frac{33}{64}$    | $2\frac{5}{16}$  | $3\frac{7}{8}$   | $1\frac{15}{16}$ | 3.1               | 3.5   |
| UKX06D1;HE2306X              | FLX06D1                         | C(CM)-UKFLX06ED1;HE2306X                                |                    |                  |                  |                  |                   |       |
| UKX07D1;H2307X               | FLX07D1                         | C(CM)-UKFLX07D1;H2307X                                  | 15                 | 66               | 108.5            | 52.5             | 1.8               | 2.2   |
| UKX07D1;HS2307               | FLX07D1                         | C(CM)-UKFLX07SD1;HS2307                                 | $\frac{19}{32}$    | $2\frac{19}{32}$ | $4\frac{9}{32}$  | $2\frac{1}{16}$  | 4.0               | 4.9   |
| UKX08D1;H2308X               | FLX08D1                         | C(CM)-UKFLX08D1;H2308X                                  | 17                 | 70               | 114.5            | 55.5             | 2.2               | 2.6   |
| UKX08D1;HE2308X              | FLX08D1                         | C(CM)-UKFLX08ED1;HE2308X                                | $2\frac{1}{32}$    | $2\frac{3}{4}$   | $4\frac{1}{2}$   | $2\frac{3}{16}$  | 4.9               | 5.7   |
| UKX08D1;HS2308X              | FLX08D1                         | C(CM)-UKFLX08SD1;HS2308X                                |                    |                  |                  |                  |                   |       |
| UKX09D1;H2309X               | FLX09D1                         | C(CM)-UKFLX09D1;H2309X                                  | 18                 | 73               | 119.5            | 58               | 2.2               | 2.7   |
| UKX09D1;HA2309               | FLX09D1                         | C(CM)-UKFLX09AD1;HA2309                                 |                    |                  |                  |                  |                   |       |
| UKX09D1;HE2309X              | FLX09D1                         | C(CM)-UKFLX09ED1;HE2309X                                | $\frac{23}{32}$    | $2\frac{7}{8}$   | $4\frac{23}{32}$ | $2\frac{9}{32}$  | 4.9               | 6.0   |
| UKX09D1;HS2309X              | FLX09D1                         | C(CM)-UKFLX09SD1;HS2309X                                |                    |                  |                  |                  |                   |       |
| UKX10D1;H2310X               | FLX10D1                         | C(CM)-UKFLX10D1;H2310X                                  | 15                 | 76               | 133.5            | 66.5             | 3.1               | 3.6   |
| UKX10D1;HS2310               | FLX10D1                         | C(CM)-UKFLX10SD1;HS2310                                 |                    |                  |                  |                  |                   |       |
| UKX10D1;HA2310               | FLX10D1                         | C(CM)-UKFLX10AD1;HA2310                                 | $\frac{19}{32}$    | 3                | $5\frac{1}{4}$   | $2\frac{5}{8}$   | 6.8               | 7.9   |
| UKX10D1;HE2310X              | FLX10D1                         | C(CM)-UKFLX10ED1;HE2310X                                |                    |                  |                  |                  |                   |       |

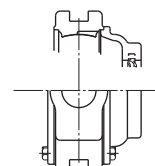
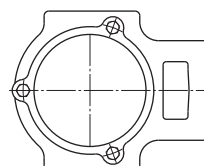
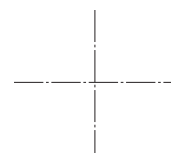
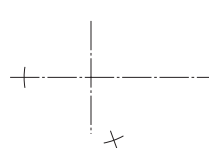
Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".  
2) Adapter number with suffix "X" means a narrow slot type adapter sleeve.  
In this case the lock washer with the straight inner prong should be used.  
3) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.  
To distinguish it, a suffix "Y" is added.

Note: Please refer to page 36 for size of grease fitting.



| Shaft<br>dia.        | Unit number <sup>1) 2) 3)</sup>                                            | Nominal dimensions |                |                |                |          |                |                |                |           |           |                |          |          |                |                | Bearing number <sup>2) 3)</sup> |                                                                        |
|----------------------|----------------------------------------------------------------------------|--------------------|----------------|----------------|----------------|----------|----------------|----------------|----------------|-----------|-----------|----------------|----------|----------|----------------|----------------|---------------------------------|------------------------------------------------------------------------|
|                      |                                                                            |                    |                |                |                |          |                |                |                |           |           |                |          |          |                |                |                                 |                                                                        |
|                      |                                                                            | mm                 |                |                |                |          |                |                | inch           |           |           |                |          |          |                |                |                                 |                                                                        |
| mm<br>inch           |                                                                            | N <sub>1</sub>     | L <sub>2</sub> | H <sub>2</sub> | N <sub>2</sub> | N        | L <sub>3</sub> | A <sub>1</sub> | H <sub>1</sub> | H         | L         | A <sub>2</sub> | A        | r        | L <sub>1</sub> | B <sub>1</sub> |                                 |                                                                        |
| 20<br>¾              | UKT205D1;H2305X<br>UKT205D1;HE2305                                         | 16<br>⅝            | 12<br>⅚        | 51<br>2        | 32<br>1¼       | 19<br>¾  | 51<br>2        | 12<br>0.472    | 76<br>2⅝       | 89<br>3½  | 97<br>3⅓  | 24<br>⅚        | 32<br>1¼ | 35<br>1⅜ | 62<br>2⅞       | 35             | 1.378                           | UK205D1;H2305X<br>UK205D1;HE2305                                       |
| 25<br>⅞<br>1         | UKT206D1;H2306X<br>UKT206D1;HS2306<br>UKT206D1;HE2306X                     | 16<br>⅝            | 12<br>⅚        | 56<br>2⅞       | 37<br>1⅚       | 22<br>⅞  | 57<br>2¼       | 12<br>0.472    | 89<br>3½       | 102<br>4⅓ | 113<br>4⅞ | 28<br>1⅓       | 37<br>1⅚ | 43<br>1⅞ | 70<br>2¾       | 38             | 1.496                           | UK206D1;H2306X<br>UK206D1;HS2306<br>UK206D1;HE2306X                    |
| 30<br>1⅛             | UKT207D1;H2307X<br>UKT207D1;HS2307                                         | 16<br>⅝            | 15<br>⅑        | 64<br>2⅞       | 37<br>1⅚       | 22<br>⅞  | 64<br>2⅞       | 12<br>0.472    | 89<br>3½       | 102<br>4⅓ | 129<br>5⅓ | 30<br>1⅙       | 37<br>1⅚ | 51<br>2  | 78<br>3⅙       | 43             | 1.693                           | UK207D1;H2307X<br>UK207D1;HS2307                                       |
| 35<br>1¼<br>1⅜       | UKT208D1;H2308X<br>UKT208D1;HE2308X<br>UKT208D1;HS2308X                    | 19<br>¾            | 18<br>⅔        | 83<br>3⅞       | 49<br>1⅚       | 29<br>1⅚ | 83<br>3⅞       | 16<br>0.630    | 102<br>4⅙      | 114<br>4½ | 144<br>5⅓ | 33<br>1⅙       | 49<br>1⅚ | 56<br>2⅞ | 88<br>3⅚       | 46             | 1.811                           | UK208D1;H2308X<br>UK208D1;HE2308X<br>UK208D1;HS2308X                   |
| 40<br>1⅞<br>1½<br>1⅝ | UKT209D1;H2309X<br>UKT209D1;HA2309<br>UKT209D1;HE2309X<br>UKT209D1;HS2309X | 19<br>¾            | 18<br>⅔        | 83<br>3⅞       | 49<br>1⅚       | 29<br>1⅚ | 83<br>3⅞       | 16<br>0.630    | 102<br>4⅙      | 117<br>4⅑ | 145<br>5⅓ | 35<br>1⅜       | 49<br>1⅚ | 57<br>2¼ | 88<br>3⅚       | 50             | 1.969                           | UK209D1;H2309X<br>UK209D1;HA2309<br>UK209D1;HE2309X<br>UK209D1;HS2309X |
| 45<br>1⅝<br>1⅞<br>1¾ | UKT210D1;H2310X<br>UKT210D1;HS2310<br>UKT210D1;HA2310<br>UKT210D1;HE2310X  | 19<br>¾            | 18<br>⅔        | 83<br>3⅞       | 49<br>1⅚       | 29<br>1⅚ | 86<br>3⅞       | 16<br>0.630    | 102<br>4⅙      | 117<br>4⅑ | 151<br>5⅚ | 37<br>1⅚       | 49<br>1⅚ | 59<br>2⅙ | 92<br>3⅝       | 55             | 2.165                           | UK210D1;H2310X<br>UK210D1;HS2310<br>UK210D1;HA2310<br>UK210D1;HE2310X  |
| 50<br>1⅞<br>1⅚<br>2  | UKT211D1;H2311X<br>UKT211D1;HS2311<br>UKT211D1;HA2311<br>UKT211D1;HE2311XY | 25<br>3⅓           | 21<br>1⅓       | 102<br>4⅓      | 64<br>2⅞       | 35<br>1⅜ | 95<br>3¾       | 22<br>0.866    | 130<br>5⅛      | 146<br>5¾ | 171<br>6⅓ | 38<br>1½       | 64<br>2⅞ | 65<br>2⅞ | 106<br>4⅓      | 59             | 2.323                           | UK211D1;H2311X<br>UK211D1;HS2311<br>UK211D1;HA2311<br>UK211D1;HE2311XY |

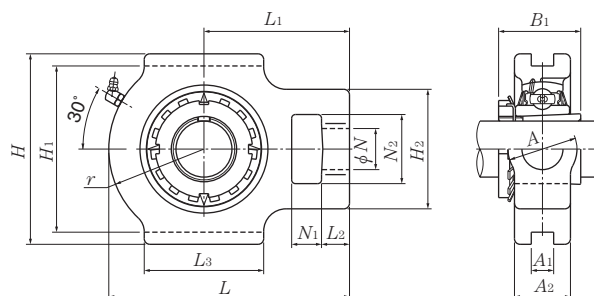




| Housing<br>number <sup>1)</sup> | Unit number <sup>1) 2) 3)</sup><br>pressed steel dust cover type | Unit number <sup>1) 2) 3)</sup><br>cast dust cover type | Nominal dimensions    |                       |                       |                       |                       | Mass<br>(approx.) |       |       |
|---------------------------------|------------------------------------------------------------------|---------------------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-------------------|-------|-------|
|                                 |                                                                  |                                                         | mm                    |                       | inch                  |                       |                       | kg                |       | lb    |
|                                 |                                                                  |                                                         | <i>t</i> <sub>1</sub> | <i>t</i> <sub>2</sub> | <i>A</i> <sub>4</sub> | <i>L</i> <sub>4</sub> | <i>A</i> <sub>5</sub> | UKT               | S(SM) | C(CM) |
| T205D1                          | S(SM)-UKT205D1;H2305X                                            | C(CM)-UKT205D1;H2305X                                   | 7                     | 11                    | 57                    | 100.5                 | 70                    | 0.9               | 0.9   | 1.2   |
| T205D1                          | S(SM)-UKT205ED1;HE2305                                           | C(CM)-UKT205ED1;HE2305                                  | $\frac{9}{32}$        | $\frac{7}{16}$        | $2\frac{1}{4}$        | $3\frac{31}{32}$      | $2\frac{3}{4}$        | 2.0               | 2.0   | 2.7   |
| T206D1                          | S(SM)-UKT206D1;H2306X                                            | C(CM)-UKT206D1;H2306X                                   | 8                     | 12                    | 62                    | 113.5                 | 75                    | 1.3               | 1.4   | 1.8   |
| T206D1                          | S(SM)-UKT206SD1;HS2306                                           | C(CM)-UKT206SD1;HS2306                                  | $\frac{5}{16}$        | $\frac{15}{32}$       | $2\frac{7}{16}$       | $4\frac{15}{32}$      | $2\frac{15}{16}$      | 2.9               | 3.1   | 4.0   |
| T206D1                          | S(SM)-UKT206ED1;HE2306X                                          | C(CM)-UKT206ED1;HE2306X                                 |                       |                       |                       |                       |                       |                   |       |       |
| T207D1                          | S(SM)-UKT207D1;H2307X                                            | C(CM)-UKT207D1;H2307X                                   | 10                    | 12                    | 72                    | 129                   | 80                    | 1.7               | 1.8   | 2.2   |
| T207D1                          | S(SM)-UKT207SD1;HS2307                                           | C(CM)-UKT207SD1;HS2307                                  | $\frac{25}{64}$       | $\frac{15}{32}$       | $2\frac{27}{32}$      | $5\frac{3}{32}$       | $3\frac{5}{32}$       | 3.8               | 4.0   | 4.9   |
| T208D1                          | S(SM)-UKT208D1;H2308X                                            | C(CM)-UKT208D1;H2308X                                   | 13                    | 14                    | 82                    | 144                   | 90                    | 2.5               | 2.6   | 3.3   |
| T208D1                          | S(SM)-UKT208ED1;HE2308X                                          | C(CM)-UKT208ED1;HE2308X                                 | $\frac{33}{64}$       | $\frac{35}{64}$       | $3\frac{7}{32}$       | $5\frac{21}{32}$      | $3\frac{17}{32}$      | 5.5               | 5.7   | 7.3   |
| T208D1                          | S(SM)-UKT208SD1;HS2308X                                          | C(CM)-UKT208SD1;HS2308X                                 |                       |                       |                       |                       |                       |                   |       |       |
| T209D1                          | S(SM)-UKT209D1;H2309X                                            | C(CM)-UKT209D1;H2309X                                   | 12                    | 16                    | 82                    | 145.5                 | 95                    | 2.5               | 2.6   | 3.5   |
| T209D1                          | S(SM)-UKT209AD1;HA2309                                           | C(CM)-UKT209AD1;HA2309                                  |                       |                       |                       |                       |                       |                   |       |       |
| T209D1                          | S(SM)-UKT209ED1;HE2309X                                          | C(CM)-UKT209ED1;HE2309X                                 | $\frac{15}{32}$       | $\frac{5}{8}$         | $3\frac{7}{32}$       | $5\frac{23}{32}$      | $3\frac{3}{4}$        | 5.5               | 5.7   | 7.7   |
| T209D1                          | S(SM)-UKT209SD1;HS2309X                                          | C(CM)-UKT209SD1;HS2309X                                 |                       |                       |                       |                       |                       |                   |       |       |
| T210D1                          | S(SM)-UKT210D1;H2310X                                            | C(CM)-UKT210D1;H2310X                                   | 13                    | 17                    | 87                    | 152                   | 100                   | 2.7               | 2.8   | 3.8   |
| T210D1                          | S(SM)-UKT210SD1;HS2310                                           | C(CM)-UKT210SD1;HS2310                                  |                       |                       |                       |                       |                       |                   |       |       |
| T210D1                          | S(SM)-UKT210AD1;HA2310                                           | C(CM)-UKT210AD1;HA2310                                  | $\frac{33}{64}$       | $\frac{21}{32}$       | $3\frac{7}{16}$       | $5\frac{31}{32}$      | $3\frac{15}{16}$      | 6.0               | 6.2   | 8.4   |
| T210D1                          | S(SM)-UKT210ED1;HE2310X                                          | C(CM)-UKT210ED1;HE2310X                                 |                       |                       |                       |                       |                       |                   |       |       |
| T211D1                          | S(SM)-UKT211D1;H2311X                                            | C(CM)-UKT211D1;H2311X                                   | 14                    | 15                    | 92                    | 171.5                 | 100                   | 4.1               | 4.3   | 5.3   |
| T211D1                          | S(SM)-UKT211SD1;HS2311                                           | C(CM)-UKT211SD1;HS2311                                  |                       |                       |                       |                       |                       |                   |       |       |
| T211D1                          | S(SM)-UKT211AD1;HA2311                                           | C(CM)-UKT211AD1;HA2311                                  | $\frac{35}{64}$       | $\frac{19}{32}$       | $3\frac{5}{8}$        | $6\frac{3}{4}$        | $3\frac{15}{16}$      | 9.0               | 9.5   | 12    |
| T211D1                          | S(SM)-UKT211ED1;HE2311XY                                         | C(CM)-UKT211ED1;HE2311XY                                |                       |                       |                       |                       |                       |                   |       |       |



## Take-up units cast housing Adapter type



| Shaft<br>dia.                                                                                          | Unit number <sup>1) 2) 3)</sup>                                            | Nominal dimensions                  |                                       |                                       |                                       |                                     |                                       |                |                                        |                                        |                                        |                                       |                                       |                                       |                                        |                | Bearing number <sup>2) 3)</sup>                                        |
|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|----------------|----------------------------------------|----------------------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|----------------------------------------|----------------|------------------------------------------------------------------------|
|                                                                                                        |                                                                            |                                     |                                       |                                       |                                       |                                     |                                       |                |                                        |                                        |                                        |                                       |                                       |                                       |                                        |                |                                                                        |
|                                                                                                        |                                                                            | mm                                  |                                       |                                       |                                       |                                     |                                       |                | inch                                   |                                        |                                        |                                       |                                       |                                       |                                        |                |                                                                        |
| mm<br>inch                                                                                             |                                                                            | N <sub>1</sub>                      | L <sub>2</sub>                        | H <sub>2</sub>                        | N <sub>2</sub>                        | N                                   | L <sub>3</sub>                        | A <sub>1</sub> | H <sub>1</sub>                         | H                                      | L                                      | A <sub>2</sub>                        | A                                     | r                                     | L <sub>1</sub>                         | B <sub>1</sub> |                                                                        |
| 55<br>2 <sup>1</sup> / <sub>8</sub>                                                                    | UKT212D1;H2312X<br>UKT212D1;HS2312                                         | 32<br>1 <sup>1</sup> / <sub>4</sub> | 21<br>13 <sup>1</sup> / <sub>16</sub> | 102<br>4 <sup>1</sup> / <sub>32</sub> | 64<br>2 <sup>17</sup> / <sub>32</sub> | 35<br>1 <sup>3</sup> / <sub>8</sub> | 102<br>4 <sup>1</sup> / <sub>32</sub> | 22<br>0.866    | 130<br>5 <sup>1</sup> / <sub>8</sub>   | 146<br>5 <sup>3</sup> / <sub>4</sub>   | 194<br>7 <sup>5</sup> / <sub>8</sub>   | 42<br>1 <sup>21</sup> / <sub>32</sub> | 64<br>2 <sup>17</sup> / <sub>32</sub> | 75<br>2 <sup>15</sup> / <sub>16</sub> | 119<br>4 <sup>11</sup> / <sub>16</sub> | 62<br>2.441    | UK212D1;H2312X<br>UK212D1;HS2312                                       |
| 60<br>2 <sup>3</sup> / <sub>16</sub><br>2 <sup>1</sup> / <sub>4</sub><br>2 <sup>3</sup> / <sub>8</sub> | UKT213D1;H2313X<br>UKT213D1;HA2313<br>UKT213D1;HE2313X<br>UKT213D1;HS2313X | 32<br>1 <sup>1</sup> / <sub>4</sub> | 23<br>29 <sup>3</sup> / <sub>32</sub> | 111<br>4 <sup>3</sup> / <sub>8</sub>  | 70<br>2 <sup>3</sup> / <sub>4</sub>   | 41<br>1 <sup>5</sup> / <sub>8</sub> | 121<br>4 <sup>3</sup> / <sub>4</sub>  | 26<br>1.024    | 151<br>5 <sup>15</sup> / <sub>16</sub> | 167<br>6 <sup>9</sup> / <sub>16</sub>  | 224<br>8 <sup>13</sup> / <sub>16</sub> | 44<br>1 <sup>23</sup> / <sub>32</sub> | 70<br>2 <sup>3</sup> / <sub>4</sub>   | 87<br>3 <sup>7</sup> / <sub>16</sub>  | 137<br>5 <sup>13</sup> / <sub>32</sub> | 65<br>2.559    | UK213D1;H2313X<br>UK213D1;HA2313<br>UK213D1;HE2313X<br>UK213D1;HS2313X |
| 65<br>2 <sup>7</sup> / <sub>16</sub><br>2 <sup>1</sup> / <sub>2</sub>                                  | UKT215D1;H2315X<br>UKT215D1;HA2315<br>UKT215D1;HE2315X                     | 32<br>1 <sup>1</sup> / <sub>4</sub> | 23<br>29 <sup>3</sup> / <sub>32</sub> | 111<br>4 <sup>3</sup> / <sub>8</sub>  | 70<br>2 <sup>3</sup> / <sub>4</sub>   | 41<br>1 <sup>5</sup> / <sub>8</sub> | 121<br>4 <sup>3</sup> / <sub>4</sub>  | 26<br>1.024    | 151<br>5 <sup>15</sup> / <sub>16</sub> | 167<br>6 <sup>9</sup> / <sub>16</sub>  | 232<br>9 <sup>1</sup> / <sub>8</sub>   | 48<br>1 <sup>7</sup> / <sub>8</sub>   | 70<br>2 <sup>3</sup> / <sub>4</sub>   | 92<br>3 <sup>5</sup> / <sub>8</sub>   | 140<br>5 <sup>1</sup> / <sub>2</sub>   | 73<br>2.874    | UK215D1;H2315X<br>UK215D1;HA2315<br>UK215D1;HE2315X                    |
| 70<br>2 <sup>11</sup> / <sub>16</sub><br>2 <sup>3</sup> / <sub>4</sub>                                 | UKT216D1;H2316X<br>UKT216D1;HA2316<br>UKT216D1;HE2316X                     | 32<br>1 <sup>1</sup> / <sub>4</sub> | 23<br>29 <sup>3</sup> / <sub>32</sub> | 111<br>4 <sup>3</sup> / <sub>8</sub>  | 70<br>2 <sup>3</sup> / <sub>4</sub>   | 41<br>1 <sup>5</sup> / <sub>8</sub> | 121<br>4 <sup>3</sup> / <sub>4</sub>  | 26<br>1.024    | 165<br>6 <sup>1</sup> / <sub>2</sub>   | 184<br>7 <sup>1</sup> / <sub>4</sub>   | 235<br>9 <sup>1</sup> / <sub>4</sub>   | 51<br>2                               | 70<br>2 <sup>3</sup> / <sub>4</sub>   | 95<br>3 <sup>3</sup> / <sub>4</sub>   | 140<br>5 <sup>1</sup> / <sub>2</sub>   | 78<br>3.071    | UK216D1;H2316X<br>UK216D1;HA2316<br>UK216D1;HE2316X                    |
| 75<br>2 <sup>15</sup> / <sub>16</sub><br>3                                                             | UKT217D1;H2317X<br>UKT217D1;HA2317X<br>UKT217D1;HE2317X                    | 38<br>1 <sup>1</sup> / <sub>2</sub> | 31<br>1 <sup>7</sup> / <sub>32</sub>  | 124<br>4 <sup>7</sup> / <sub>8</sub>  | 73<br>2 <sup>7</sup> / <sub>8</sub>   | 48<br>1 <sup>7</sup> / <sub>8</sub> | 157<br>6 <sup>3</sup> / <sub>16</sub> | 30<br>1.181    | 173<br>6 <sup>13</sup> / <sub>16</sub> | 198<br>7 <sup>25</sup> / <sub>32</sub> | 260<br>10 <sup>1</sup> / <sub>4</sub>  | 54<br>2 <sup>1</sup> / <sub>8</sub>   | 73<br>2 <sup>7</sup> / <sub>8</sub>   | 98<br>3 <sup>27</sup> / <sub>32</sub> | 162<br>6 <sup>3</sup> / <sub>8</sub>   | 82<br>3.228    | UK217D1;H2317X<br>UK217D1;HA2317X<br>UK217D1;HE2317X                   |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

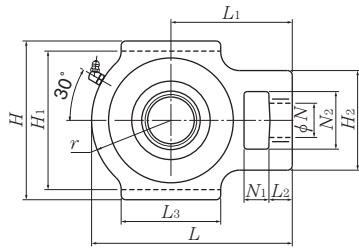
2) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

In this case the lock washer with the straight inner prong should be used.

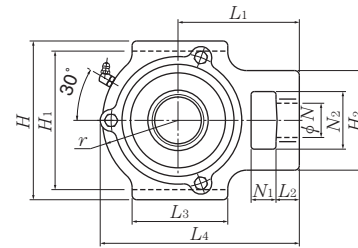
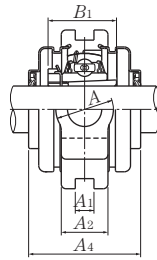
3) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.

To distinguish it, a suffix "Y" is added.

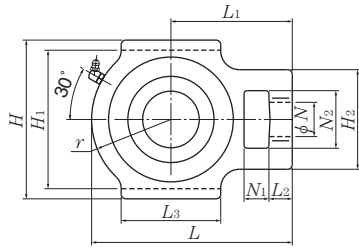
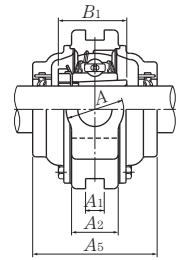
Note: Please refer to page 36 for size of grease fitting.



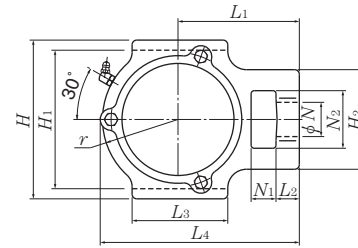
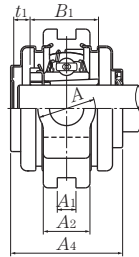
Press steel dust cover type (Open end)  
S-UKT...D1



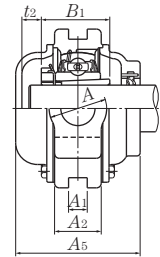
Cast dust cover type (Open end)  
C-UKT...D1



Press steel dust cover type (Close end)  
SM-UKT...D1

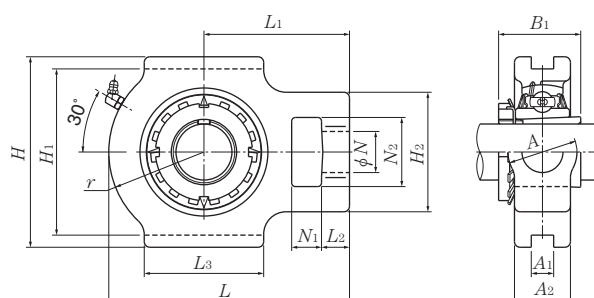


Cast dust cover type (Close end)  
CM-UKT...D1



| Housing number <sup>1)</sup> | Unit number <sup>1) 2) 3)</sup><br>pressed steel dust cover type | Unit number <sup>1) 2) 3)</sup><br>cast dust cover type | Nominal dimensions |                |                |                |                | Mass (approx.) |       |       |
|------------------------------|------------------------------------------------------------------|---------------------------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|-------|-------|
|                              |                                                                  |                                                         | mm                 |                | inch           |                |                | kg             |       | lb    |
|                              |                                                                  |                                                         | t <sub>1</sub>     | t <sub>2</sub> | A <sub>4</sub> | L <sub>4</sub> | A <sub>5</sub> | UKT            | S(SM) | C(CM) |
| T212D1                       | S(SM)-UKT212D1;H2312X                                            | C(CM)-UKT212D1;H2312X                                   | 16                 | 20             | 102            | 194            | 115            | 4.9            | 5.2   | 6.3   |
| T212D1                       | S(SM)-UKT212SD1;HS2312                                           | C(CM)-UKT212SD1;HS2312                                  | 5/8                | 25/32          | 4 1/32         | 7 5/8          | 4 17/32        | 11             | 11    | 14    |
| T213D1                       | S(SM)-UKT213D1;H2313X                                            | C(CM)-UKT213D1;H2313X                                   | 17                 | 21             | 107            | 224            | 120            | 7.1            | 7.4   | 8.8   |
| T213D1                       | S(SM)-UKT213AD1;HA2313                                           | C(CM)-UKT213AD1;HA2313                                  |                    |                |                |                |                |                |       |       |
| T213D1                       | S(SM)-UKT213ED1;HE2313X                                          | C(CM)-UKT213ED1;HE2313X                                 | 2 1/32             | 13/16          | 4 7/32         | 8 13/16        | 4 23/32        | 16             | 16    | 19    |
| T213D1                       | S(SM)-UKT213SD1;HS2313X                                          | C(CM)-UKT213SD1;HS2313X                                 |                    |                |                |                |                |                |       |       |
| T215D1                       | —                                                                | C(CM)-UKT215D1;H2315X                                   | —                  | 24             | —              | 232            | 135            | 7.7            | —     | 10    |
| T215D1                       | —                                                                | C(CM)-UKT215AD1;HA2315                                  | —                  | 15/16          | —              | 9 1/8          | 5 5/16         | 17             | —     | 22    |
| T215D1                       | —                                                                | C(CM)-UKT215ED1;HE2315X                                 |                    |                |                |                |                |                |       |       |
| T216D1                       | —                                                                | C(CM)-UKT216D1;H2316X                                   | —                  | 27             | —              | 235            | 145            | 8.7            | —     | 12    |
| T216D1                       | —                                                                | C(CM)-UKT216AD1;HA2316                                  | —                  | 1 1/16         | —              | 9 1/4          | 5 23/32        | 19             | —     | 26    |
| T216D1                       | —                                                                | C(CM)-UKT216ED1;HE2316X                                 |                    |                |                |                |                |                |       |       |
| T217D1                       | —                                                                | C(CM)-UKT217D1;H2317X                                   | —                  | 30             | —              | 260            | 155            | 11             | —     | 15    |
| T217D1                       | —                                                                | C(CM)-UKT217AD1;HA2317X                                 | —                  | 1 3/16         | —              | 10 1/4         | 6 3/32         | 24             | —     | 33    |
| T217D1                       | —                                                                | C(CM)-UKT217ED1;HE2317X                                 |                    |                |                |                |                |                |       |       |

## Take-up units cast housing Adapter type



| Shaft<br>dia.<br><br>mm<br>inch | Unit number <sup>1) 2) 3)</sup>                                            | Nominal dimensions |                |                |                |               |                |                |                |                |                |                |               |               |                |                |
|---------------------------------|----------------------------------------------------------------------------|--------------------|----------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|---------------|----------------|----------------|
|                                 |                                                                            | mm                 |                |                |                |               |                |                | inch           |                |                |                |               |               |                |                |
|                                 |                                                                            | N <sub>1</sub>     | L <sub>2</sub> | H <sub>2</sub> | N <sub>2</sub> | N             | L <sub>3</sub> | A <sub>1</sub> | H <sub>1</sub> | H              | L              | A <sub>2</sub> | A             | r             | L <sub>1</sub> | B <sub>1</sub> |
| 20<br>3/4                       | UKT305D1;H2305X<br>UKT305D1;HE2305                                         | 16<br>5/8          | 14<br>9/16     | 62<br>2 7/16   | 36<br>1 13/32  | 26<br>1 1/32  | 65<br>2 9/16   | 12<br>0.472    | 80<br>3 5/32   | 89<br>3 1/2    | 122<br>4 13/16 | 26<br>1 1/32   | 36<br>1 13/32 | 46<br>1 13/16 | 76<br>3        | 35<br>1.378    |
| 25<br>7/8<br>1                  | UKT306D1;H2306X<br>UKT306D1;HS2306<br>UKT306D1;HE2306X                     | 18<br>23/32        | 16<br>5/8      | 70<br>2 3/4    | 41<br>1 5/8    | 28<br>1 3/32  | 74<br>2 29/32  | 16<br>0.630    | 90<br>3 35/64  | 100<br>3 15/16 | 137<br>5 13/32 | 28<br>1 3/32   | 41<br>1 5/8   | 52<br>2 1/16  | 85<br>3 11/32  | 38<br>1.496    |
| 30<br>1 1/8                     | UKT307D1;H2307X<br>UKT307D1;HS2307                                         | 20<br>25/32        | 17<br>2 1/32   | 75<br>2 15/16  | 45<br>1 25/32  | 30<br>1 3/16  | 80<br>3 5/32   | 16<br>0.630    | 100<br>3 15/16 | 111<br>4 3/8   | 150<br>5 29/32 | 32<br>1 1/4    | 45<br>1 25/32 | 56<br>2 7/32  | 94<br>3 11/16  | 43<br>1.693    |
| 35<br>1 1/4<br>1 3/8            | UKT308D1;H2308X<br>UKT308D1;HE2308X<br>UKT308D1;HS2308X                    | 22<br>7/8          | 19<br>3/4      | 83<br>3 9/32   | 50<br>1 31/32  | 32<br>1 1/4   | 89<br>3 1/2    | 18<br>0.709    | 112<br>4 13/32 | 124<br>4 7/8   | 162<br>6 3/8   | 34<br>1 11/32  | 50<br>1 31/32 | 62<br>2 7/16  | 100<br>3 15/16 | 46<br>1.811    |
| 40<br>1 7/16<br>1 1/2<br>1 5/8  | UKT309D1;H2309X<br>UKT309D1;HA2309<br>UKT309D1;HE2309X<br>UKT309D1;HS2309X | 24<br>15/16        | 20<br>25/32    | 90<br>3 17/32  | 55<br>2 5/32   | 34<br>1 11/32 | 97<br>3 13/16  | 18<br>0.709    | 125<br>4 59/64 | 138<br>5 7/16  | 178<br>7       | 38<br>1 1/2    | 55<br>2 5/32  | 68<br>2 11/16 | 110<br>4 11/32 | 50<br>1.969    |
| 45<br>1 5/8<br>1 11/16<br>1 3/4 | UKT310D1;H2310X<br>UKT310D1;HS2310<br>UKT310D1;HA2310<br>UKT310D1;HE2310X  | 27<br>1 1/16       | 22<br>7/8      | 98<br>3 27/32  | 61<br>2 13/32  | 37<br>1 15/32 | 106<br>4 3/16  | 20<br>0.787    | 140<br>5 33/64 | 151<br>5 15/16 | 192<br>7 9/16  | 40<br>1 9/16   | 61<br>2 13/32 | 74<br>2 29/32 | 118<br>4 21/32 | 55<br>2.165    |
| 50<br>1 7/8<br>1 15/16<br>2     | UKT311D1;H2311X<br>UKT311D1;HS2311<br>UKT311D1;HA2311<br>UKT311D1;HE2311XY | 29<br>1 5/32       | 23<br>29/32    | 105<br>4 1/8   | 66<br>2 19/32  | 39<br>1 17/32 | 115<br>4 17/32 | 22<br>0.866    | 150<br>5 29/32 | 163<br>6 13/32 | 207<br>8 5/32  | 44<br>1 23/32  | 66<br>2 19/32 | 80<br>3 5/32  | 127<br>5       | 59<br>2.323    |
| 55<br>2 1/8                     | UKT312D1;H2312X<br>UKT312D1;HS2312                                         | 31<br>1 7/32       | 25<br>3 1/32   | 113<br>4 7/16  | 71<br>2 25/32  | 41<br>1 5/8   | 123<br>4 27/32 | 22<br>0.866    | 160<br>6 19/64 | 178<br>7       | 220<br>8 21/32 | 46<br>1 13/16  | 71<br>2 25/32 | 85<br>3 11/32 | 135<br>5 5/16  | 62<br>2.441    |
| 60<br>2 3/16<br>2 1/4<br>2 3/8  | UKT313D1;H2313X<br>UKT313D1;HA2313<br>UKT313D1;HE2313X<br>UKT313D1;HS2313X | 32<br>1 1/4        | 27<br>1 1/16   | 116<br>4 9/16  | 70<br>2 3/4    | 43<br>1 11/16 | 134<br>5 9/32  | 26<br>1.024    | 170<br>6 11/16 | 190<br>7 15/32 | 238<br>9 3/8   | 50<br>1 31/32  | 80<br>3 5/32  | 92<br>3 5/8   | 146<br>5 3/4   | 65<br>2.559    |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

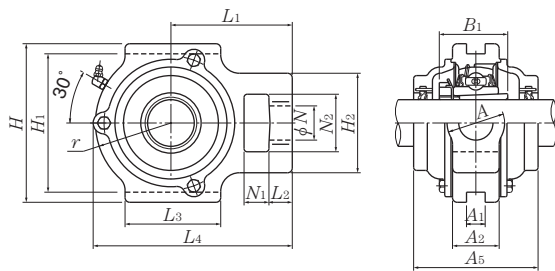
2) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

In this case the lock washer with the straight inner prong should be used.

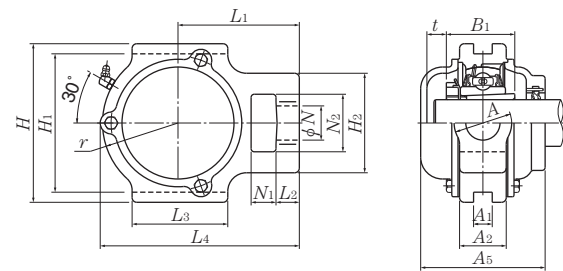
3) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.

To distinguish it, a suffix "Y" is added.

Note: Please refer to page 36 for size of grease fitting.



Cast dust cover type (Open end)  
C-UKT...D1

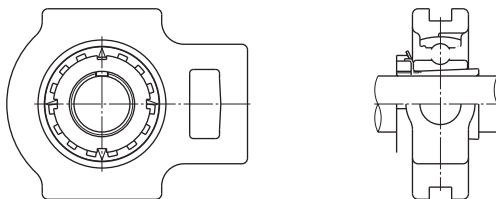


Cast dust cover type (Close end)  
CM-UKT...D1

| Bearing number <sup>2) 3)</sup> | Housing number <sup>1)</sup> | Unit number <sup>1) 2) 3)</sup><br>cast dust cover type | Nominal dimensions |                  |                  | Mass (approx.) |       |
|---------------------------------|------------------------------|---------------------------------------------------------|--------------------|------------------|------------------|----------------|-------|
|                                 |                              |                                                         | mm                 | inch             |                  | kg             | lb    |
|                                 |                              |                                                         | t                  | L4               | A5               | UKT            | C(CM) |
| UK305D1;H2305X                  | T305D1                       | C(CM)-UKT305D1;H2305X                                   | 14                 | 122              | 80               | 1.4            | 1.9   |
| UK305D1;HE2305                  | T305D1                       | C(CM)-UKT305ED1;HE2305                                  | $\frac{35}{64}$    | $4\frac{13}{16}$ | $3\frac{5}{32}$  | 3.1            | 4.2   |
| UK306D1;H2306X                  | T306D1                       | C(CM)-UKT306D1;H2306X                                   | 15                 | 139              | 85               | 1.8            | 2.5   |
| UK306D1;HS2306                  | T306D1                       | C(CM)-UKT306SD1;HS2306                                  | $\frac{19}{32}$    | $5\frac{31}{32}$ | $3\frac{11}{32}$ | 4.0            | 5.5   |
| UK306D1;HE2306X                 | T306D1                       | C(CM)-UKT306ED1;HE2306X                                 |                    |                  |                  |                |       |
| UK307D1;H2307X                  | T307D1                       | C(CM)-UKT307D1;H2307X                                   | 17                 | 152              | 95               | 2.4            | 3.3   |
| UK307D1;HS2307                  | T307D1                       | C(CM)-UKT307SD1;HS2307                                  | $\frac{21}{32}$    | $5\frac{31}{32}$ | $3\frac{3}{4}$   | 5.3            | 7.3   |
| UK308D1;H2308X                  | T308D1                       | C(CM)-UKT308D1;H2308X                                   | 19                 | 164              | 105              | 3.0            | 4.3   |
| UK308D1;HE2308X                 | T308D1                       | C(CM)-UKT308ED1;HE2308X                                 | $\frac{3}{4}$      | $6\frac{15}{32}$ | $4\frac{1}{8}$   | 6.6            | 9.5   |
| UK308D1;HS2308X                 | T308D1                       | C(CM)-UKT308SD1;HS2308X                                 |                    |                  |                  |                |       |
| UK309D1;H2309X                  | T309D1                       | C(CM)-UKT309D1;H2309X                                   | 19                 | 181              | 110              | 4.0            | 5.6   |
| UK309D1;HA2309                  | T309D1                       | C(CM)-UKT309AD1;HA2309                                  |                    |                  |                  |                |       |
| UK309D1;HE2309X                 | T309D1                       | C(CM)-UKT309ED1;HE2309X                                 | $\frac{3}{4}$      | $7\frac{1}{8}$   | $4\frac{11}{32}$ | 8.8            | 12    |
| UK309D1;HS2309X                 | T309D1                       | C(CM)-UKT309SD1;HS2309X                                 |                    |                  |                  |                |       |
| UK310D1;H2310X                  | T310D1                       | C(CM)-UKT310D1;H2310X                                   | 21                 | 197              | 120              | 5.1            | 7.1   |
| UK310D1;HS2310                  | T310D1                       | C(CM)-UKT310SD1;HS2310                                  |                    |                  |                  |                |       |
| UK310D1;HA2310                  | T310D1                       | C(CM)-UKT310AD1;HA2310                                  | $\frac{13}{16}$    | $7\frac{3}{4}$   | $4\frac{23}{32}$ | 11             | 16    |
| UK310D1;HE2310X                 | T310D1                       | C(CM)-UKT310ED1;HE2310X                                 |                    |                  |                  |                |       |
| UK311D1;H2311X                  | T311D1                       | C(CM)-UKT311D1;H2311X                                   | 22                 | 211              | 125              | 6.3            | 8.6   |
| UK311D1;HS2311                  | T311D1                       | C(CM)-UKT311SD1;HS2311                                  |                    |                  |                  |                |       |
| UK311D1;HA2311                  | T311D1                       | C(CM)-UKT311AD1;HA2311                                  | $\frac{7}{8}$      | $8\frac{5}{16}$  | $4\frac{29}{32}$ | 14             | 19    |
| UK311D1;HE2311XY                | T311D1                       | C(CM)-UKT311ED1;HE2311XY                                |                    |                  |                  |                |       |
| UK312D1;H2312X                  | T312D1                       | C(CM)-UKT312D1;H2312X                                   | 25                 | 227              | 135              | 7.6            | 10    |
| UK312D1;HS2312                  | T312D1                       | C(CM)-UKT312SD1;HS2312                                  | $\frac{63}{64}$    | $8\frac{15}{16}$ | $5\frac{5}{16}$  | 17             | 22    |
| UK313D1;H2313X                  | T313D1                       | C(CM)-UKT313D1;H2313X                                   | 25                 | 244              | 140              | 9.2            | 12    |
| UK313D1;HA2313                  | T313D1                       | C(CM)-UKT313AD1;HA2313                                  |                    |                  |                  |                |       |
| UK313D1;HE2313X                 | T313D1                       | C(CM)-UKT313ED1;HE2313X                                 | $\frac{63}{64}$    | $9\frac{19}{32}$ | $5\frac{1}{2}$   | 20             | 26    |
| UK313D1;HS2313X                 | T313D1                       | C(CM)-UKT313SD1;HS2313X                                 |                    |                  |                  |                |       |

## Take-up units cast housing

### Adapter type



| Shaft<br>dia.                                   | Unit number <sup>1) 2) 3)</sup>                                              | Nominal dimensions |                  |                  |                  |                  |                  |       |                   |                   |                   |                  |                  |                  |                  |       |  |
|-------------------------------------------------|------------------------------------------------------------------------------|--------------------|------------------|------------------|------------------|------------------|------------------|-------|-------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|-------|--|
|                                                 |                                                                              | mm                 |                  |                  |                  |                  |                  |       |                   | inch              |                   |                  |                  |                  |                  |       |  |
|                                                 |                                                                              | $N_1$              | $L_2$            | $H_2$            | $N_2$            | $N$              | $L_3$            | $A_1$ | $H_1$             | $H$               | $L$               | $A_2$            | $A$              | $r$              | $L_1$            | $B_1$ |  |
| <b>65</b><br>$2\frac{7}{16}$<br>$2\frac{1}{2}$  | <b>UKT315D1;H2315X</b><br><b>UKT315D1;HA2315</b><br><b>UKT315D1;HE2315X</b>  | 36                 | 27               | 132              | 85               | 46               | 150              | 26    | 192               | 216               | 262               | 55               | 90               | 102              | 160              | 73    |  |
|                                                 |                                                                              | $1\frac{13}{32}$   | $1\frac{1}{16}$  | $5\frac{3}{16}$  | $3\frac{11}{32}$ | $1\frac{13}{16}$ | $5\frac{29}{32}$ | 1.024 | $7\frac{9}{16}$   | $8\frac{1}{2}$    | $10\frac{5}{16}$  | $2\frac{5}{32}$  | $3\frac{17}{32}$ | $4\frac{1}{32}$  | $6\frac{5}{16}$  | 2.874 |  |
| <b>70</b><br>$2\frac{11}{16}$<br>$2\frac{3}{4}$ | <b>UKT316D1;H2316X</b><br><b>UKT316D1;HA2316</b><br><b>UKT316D1;HE2316X</b>  | 42                 | 30               | 150              | 98               | 53               | 160              | 30    | 204               | 230               | 282               | 60               | 102              | 108              | 174              | 78    |  |
|                                                 |                                                                              | $1\frac{21}{32}$   | $1\frac{3}{16}$  | $5\frac{29}{32}$ | $3\frac{27}{32}$ | $2\frac{3}{32}$  | $6\frac{5}{16}$  | 1.181 | $8\frac{1}{32}$   | $9\frac{1}{16}$   | $11\frac{3}{32}$  | $2\frac{3}{8}$   | $4\frac{1}{32}$  | $4\frac{1}{4}$   | $6\frac{27}{32}$ | 3.071 |  |
| <b>75</b><br>$2\frac{15}{16}$<br><b>3</b>       | <b>UKT317D1;H2317X</b><br><b>UKT317D1;HA2317X</b><br><b>UKT317D1;HE2317X</b> | 42                 | 32               | 152              | 98               | 53               | 170              | 32    | 214               | 240               | 298               | 64               | 102              | 115              | 183              | 82    |  |
|                                                 |                                                                              | $1\frac{21}{32}$   | $1\frac{1}{4}$   | $5\frac{31}{32}$ | $3\frac{27}{32}$ | $2\frac{3}{32}$  | $6\frac{11}{16}$ | 1.260 | $8\frac{27}{64}$  | $9\frac{7}{16}$   | $11\frac{23}{32}$ | $2\frac{17}{32}$ | $4\frac{1}{32}$  | $4\frac{17}{32}$ | $7\frac{7}{32}$  | 3.228 |  |
| <b>80</b><br>$3\frac{3}{16}$                    | <b>UKT318D1;H2318X</b><br><b>UKT318D1;HA2318X</b>                            | 46                 | 32               | 160              | 106              | 57               | 175              | 32    | 228               | 255               | 312               | 66               | 110              | 120              | 192              | 86    |  |
|                                                 |                                                                              | $1\frac{13}{16}$   | $1\frac{1}{4}$   | $6\frac{5}{16}$  | $4\frac{3}{16}$  | $2\frac{1}{4}$   | $6\frac{7}{8}$   | 1.260 | $8\frac{31}{32}$  | $10\frac{1}{32}$  | $12\frac{9}{32}$  | $2\frac{19}{32}$ | $4\frac{11}{32}$ | $4\frac{23}{32}$ | $7\frac{9}{16}$  | 3.386 |  |
| <b>85</b><br>$3\frac{1}{4}$                     | <b>UKT319D1;H2319X</b><br><b>UKT319D1;HE2319X</b>                            | 46                 | 33               | 165              | 106              | 57               | 180              | 35    | 240               | 270               | 322               | 72               | 110              | 125              | 197              | 90    |  |
|                                                 |                                                                              | $1\frac{13}{16}$   | $1\frac{5}{16}$  | $6\frac{1}{2}$   | $4\frac{3}{16}$  | $2\frac{1}{4}$   | $7\frac{3}{32}$  | 1.378 | $9\frac{29}{64}$  | $10\frac{5}{8}$   | $12\frac{11}{16}$ | $2\frac{27}{32}$ | $4\frac{11}{32}$ | $4\frac{29}{32}$ | $7\frac{3}{4}$   | 3.543 |  |
| <b>90</b><br>$3\frac{7}{16}$<br>$3\frac{1}{2}$  | <b>UKT320D1;H2320X</b><br><b>UKT320D1;HA2320</b><br><b>UKT320D1;HE2320X</b>  | 48                 | 34               | 175              | 115              | 59               | 200              | 35    | 260               | 290               | 345               | 75               | 120              | 135              | 210              | 97    |  |
|                                                 |                                                                              | $1\frac{7}{8}$     | $1\frac{11}{32}$ | $6\frac{7}{8}$   | $4\frac{17}{32}$ | $2\frac{5}{16}$  | $7\frac{7}{8}$   | 1.378 | $10\frac{15}{64}$ | $11\frac{13}{32}$ | $13\frac{19}{32}$ | $2\frac{15}{16}$ | $4\frac{23}{32}$ | $5\frac{5}{16}$  | $8\frac{9}{32}$  | 3.819 |  |
| <b>100</b>                                      | <b>UKT322D1;H2322X</b>                                                       | 52                 | 40               | 185              | 125              | 65               | 215              | 38    | 285               | 320               | 385               | 80               | 130              | 150              | 235              | 105   |  |
| <b>110</b>                                      | <b>UKT324D1;H2324X</b>                                                       | 60                 | 44               | 210              | 140              | 70               | 230              | 45    | 320               | 355               | 432               | 90               | 140              | 165              | 267              | 112   |  |
| <b>115</b>                                      | <b>UKT326D1;H2326</b>                                                        | 65                 | 47               | 220              | 150              | 75               | 240              | 50    | 350               | 385               | 465               | 100              | 150              | 180              | 285              | 121   |  |
| <b>125</b>                                      | <b>UKT328D1;H2328</b>                                                        | 70                 | 52               | 230              | 160              | 80               | 255              | 50    | 380               | 415               | 515               | 100              | 155              | 200              | 315              | 131   |  |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

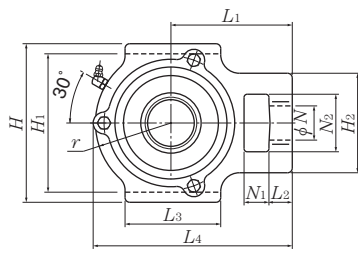
2) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

In this case the lock washer with the straight inner prong should be used.

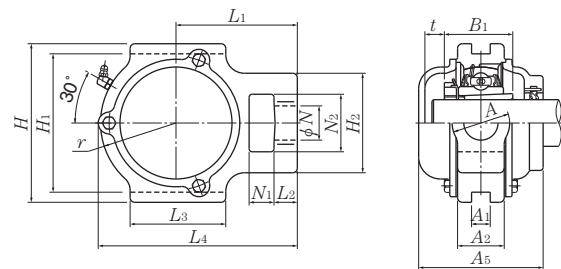
3) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.

To distinguish it, a suffix "Y" is added.

Note: Please refer to page 36 for size of grease fitting.



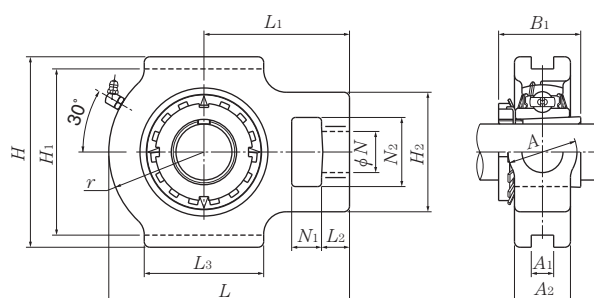
Cast dust cover type (Open end)  
C-UKT...D1



Cast dust cover type (Close end)  
CM-UKT...D1

| Bearing number <sup>2) 3)</sup> | Housing number <sup>1)</sup> | Unit number <sup>1) 2) 3)</sup><br>cast dust cover type | Nominal dimensions             |                                  |                                 | Mass (approx.) |       |
|---------------------------------|------------------------------|---------------------------------------------------------|--------------------------------|----------------------------------|---------------------------------|----------------|-------|
|                                 |                              |                                                         | mm                             |                                  | inch                            | kg             | lb    |
|                                 |                              |                                                         | t                              | L4                               | A5                              | UKT            | C(CM) |
| UK315D1;H2315X                  | T315D1                       | C(CM)-UKT315D1;H2315X                                   | 26                             | 268                              | 150                             | 13             | 17    |
| UK315D1;HA2315                  | T315D1                       | C(CM)-UKT315AD1;HA2315                                  | 1 <sup>1</sup> / <sub>32</sub> | 10 <sup>9</sup> / <sub>16</sub>  | 5 <sup>29</sup> / <sub>32</sub> | 29             | 37    |
| UK315D1;HE2315X                 | T315D1                       | C(CM)-UKT315ED1;HE2315X                                 |                                |                                  |                                 |                |       |
| UK316D1;H2316X                  | T316D1                       | C(CM)-UKT316D1;H2316X                                   | 24                             | 287                              | 155                             | 16             | 21    |
| UK316D1;HA2316                  | T316D1                       | C(CM)-UKT316AD1;HA2316                                  | 1 <sup>5</sup> / <sub>16</sub> | 11 <sup>5</sup> / <sub>16</sub>  | 6 <sup>3</sup> / <sub>32</sub>  | 35             | 46    |
| UK316D1;HE2316X                 | T316D1                       | C(CM)-UKT316ED1;HE2316X                                 |                                |                                  |                                 |                |       |
| UK317D1;H2317X                  | T317D1                       | C(CM)-UKT317D1;H2317X                                   | 29                             | 303                              | 170                             | 19             | 25    |
| UK317D1;HA2317X                 | T317D1                       | C(CM)-UKT317AD1;HA2317X                                 | 1 <sup>5</sup> / <sub>32</sub> | 11 <sup>15</sup> / <sub>16</sub> | 6 <sup>11</sup> / <sub>16</sub> | 42             | 55    |
| UK317D1;HE2317X                 | T317D1                       | C(CM)-UKT317ED1;HE2317X                                 |                                |                                  |                                 |                |       |
| UK318D1;H2318X                  | T318D1                       | C(CM)-UKT318D1;H2318X                                   | 27                             | 317                              | 170                             | 21             | 28    |
| UK318D1;HA2318X                 | T318D1                       | C(CM)-UKT318AD1;HA2318X                                 | 1 <sup>1</sup> / <sub>16</sub> | 12 <sup>15</sup> / <sub>32</sub> | 6 <sup>11</sup> / <sub>16</sub> | 46             | 62    |
| UK319D1;H2319X                  | T319D1                       | C(CM)-UKT319D1;H2319X                                   | 29                             | 327                              | 180                             | 25             | 32    |
| UK319D1;HE2319X                 | T319D1                       | C(CM)-UKT319ED1;HE2319X                                 | 1 <sup>5</sup> / <sub>32</sub> | 12 <sup>7</sup> / <sub>8</sub>   | 7 <sup>3</sup> / <sub>32</sub>  | 55             | 71    |
| UK320D1;H2320X                  | T320D1                       | C(CM)-UKT320D1;H2320X                                   | 29                             | 350                              | 190                             | 30             | 39    |
| UK320D1;HA2320                  | T320D1                       | C(CM)-UKT320AD1;HA2320                                  | 1 <sup>5</sup> / <sub>32</sub> | 13 <sup>25</sup> / <sub>32</sub> | 7 <sup>15</sup> / <sub>32</sub> | 66             | 86    |
| UK320D1;HE2320X                 | T320D1                       | C(CM)-UKT320ED1;HE2320X                                 |                                |                                  |                                 |                |       |
| UK322D1;H2322X                  | T322D1                       | C(CM)-UKT322D1;H2322X                                   | 30                             | 395                              | 200                             | 40             | 51    |
| UK324D1;H2324X                  | T324D1                       | C(CM)-UKT324D1;H2324X                                   | 32                             | 439                              | 215                             | 43             | 69    |
| UK326D1;H2326                   | T326D1                       | C(CM)-UKT326D1;H2326                                    | 34                             | 476                              | 225                             | 69             | 85    |
| UK328D1;H2328                   | T328D1                       | C(CM)-UKT328D1;H2328                                    | 36                             | 519                              | 235                             | 88             | 107   |

## Take-up units cast housing Adapter type



| Shaft<br>dia.<br><br>mm<br>inch | Unit number <sup>1) 2) 3)</sup>                                            | Nominal dimensions |                |                |                |              |                |                |                |                |                |                |               |               |                |                |
|---------------------------------|----------------------------------------------------------------------------|--------------------|----------------|----------------|----------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|---------------|----------------|----------------|
|                                 |                                                                            | mm                 |                |                |                |              |                |                | inch           |                |                |                |               |               |                |                |
|                                 |                                                                            | N <sub>1</sub>     | L <sub>2</sub> | H <sub>2</sub> | N <sub>2</sub> | N            | L <sub>3</sub> | A <sub>1</sub> | H <sub>1</sub> | H              | L              | A <sub>2</sub> | A             | r             | L <sub>1</sub> | B <sub>1</sub> |
| 20<br>3/4                       | UKTX05D1;H2305X<br>UKTX05D1;HE2305                                         | 16<br>5/8          | 12<br>15/32    | 56<br>2 7/32   | 37<br>1 15/32  | 22<br>7/8    | 57<br>2 1/4    | 12<br>0.472    | 89<br>3 1/2    | 102<br>4 1/32  | 113<br>4 7/16  | 28<br>1 3/32   | 37<br>1 15/32 | 43<br>1 11/16 | 70<br>2 3/4    | 35<br>1.378    |
| 25<br>7/8<br>1                  | UKTX06D1;H2306X<br>UKTX06D1;HS2306<br>UKTX06D1;HE2306X                     | 16<br>5/8          | 15<br>19/32    | 64<br>2 17/32  | 37<br>1 15/32  | 22<br>7/8    | 64<br>2 17/32  | 12<br>0.472    | 89<br>3 1/2    | 102<br>4 1/32  | 129<br>5 3/32  | 30<br>1 3/16   | 37<br>1 15/32 | 51<br>2       | 78<br>3 1/16   | 38<br>1.496    |
| 30<br>1 1/8                     | UKTX07D1;H2307X<br>UKTX07D1;HS2307                                         | 19<br>3/4          | 17<br>2 1/32   | 83<br>3 9/32   | 49<br>1 15/16  | 29<br>1 5/32 | 83<br>3 9/32   | 16<br>0.630    | 102<br>4 1/64  | 114<br>4 1/2   | 144<br>5 21/32 | 36<br>1 13/32  | 49<br>1 15/16 | 56<br>2 7/32  | 88<br>3 15/32  | 43<br>1.693    |
| 35<br>1 1/4<br>1 3/8            | UKTX08D1;H2308X<br>UKTX08D1;HE2308X<br>UKTX08D1;HS2308X                    | 19<br>3/4          | 17<br>2 1/32   | 83<br>3 9/32   | 49<br>1 15/16  | 29<br>1 5/32 | 83<br>3 9/32   | 16<br>0.630    | 102<br>4 1/64  | 117<br>4 19/32 | 144<br>5 21/32 | 36<br>1 13/32  | 49<br>1 15/16 | 57<br>2 1/4   | 87<br>3 7/16   | 46<br>1.811    |
| 40<br>1 7/16<br>1 1/2<br>1 5/8  | UKTX09D1;H2309X<br>UKTX09D1;HA2309<br>UKTX09D1;HE2309X<br>UKTX09D1;HS2309X | 19<br>3/4          | 18<br>23/32    | 83<br>3 9/32   | 49<br>1 15/16  | 29<br>1 5/32 | 86<br>3 3/8    | 16<br>0.630    | 102<br>4 1/64  | 117<br>4 19/32 | 151<br>5 15/16 | 38<br>1 1/2    | 49<br>1 15/16 | 59<br>2 5/16  | 92<br>3 5/8    | 50<br>1.969    |
| 45<br>1 5/8<br>1 11/16<br>1 3/4 | UKTX10D1;H2310X<br>UKTX10D1;HS2310<br>UKTX10D1;HA2310<br>UKTX10D1;HE2310X  | 25<br>3 1/32       | 21<br>13/16    | 102<br>4 1/32  | 64<br>2 17/32  | 35<br>1 3/8  | 95<br>3 3/4    | 22<br>0.866    | 130<br>5 1/8   | 146<br>5 3/4   | 171<br>6 23/32 | 42<br>1 21/32  | 64<br>2 17/32 | 65<br>2 9/16  | 106<br>4 3/16  | 55<br>2.165    |
| 50<br>1 7/8<br>1 15/16<br>2     | UKTX11D1;H2311X<br>UKTX11D1;HS2311<br>UKTX11D1;HA2311<br>UKTX11D1;HE2311XY | 32<br>1 1/4        | 21<br>13/16    | 102<br>4 1/32  | 64<br>2 17/32  | 35<br>1 3/8  | 102<br>4 1/32  | 22<br>0.866    | 130<br>5 1/8   | 146<br>5 3/4   | 194<br>7 5/8   | 44<br>1 23/32  | 64<br>2 17/32 | 75<br>2 15/16 | 119<br>4 11/16 | 59<br>2.323    |
| 55<br>2 1/8                     | UKTX12D1;H2312X<br>UKTX12D1;HS2312                                         | 32<br>1 1/4        | 23<br>29/32    | 111<br>4 3/8   | 70<br>2 3/4    | 41<br>1 5/8  | 121<br>4 3/4   | 26<br>1.024    | 151<br>5 15/16 | 167<br>6 9/16  | 224<br>8 13/16 | 48<br>1 7/8    | 70<br>2 3/4   | 87<br>3 7/16  | 137<br>5 13/32 | 62<br>2.441    |
| 60<br>2 3/16<br>2 1/4<br>2 3/8  | UKTX13D1;H2313X<br>UKTX13D1;HA2313<br>UKTX13D1;HE2313X<br>UKTX13D1;HS2313X | 32<br>1 1/4        | 23<br>29/32    | 111<br>4 3/8   | 70<br>2 3/4    | 41<br>1 5/8  | 121<br>4 3/4   | 26<br>1.024    | 151<br>5 15/16 | 167<br>6 9/16  | 224<br>8 13/16 | 48<br>1 7/8    | 70<br>2 3/4   | 87<br>3 7/16  | 137<br>5 13/32 | 65<br>2.559    |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

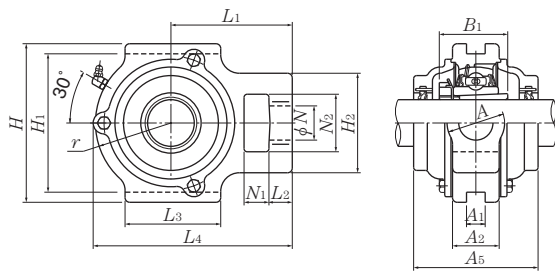
2) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

In this case the lock washer with the straight inner prong should be used.

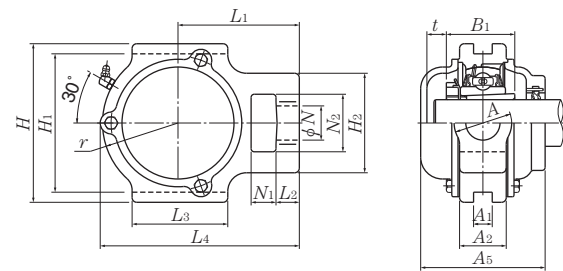
3) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.

To distinguish it, a suffix "Y" is added.

Note: Please refer to page 36 for size of grease fitting.



Cast dust cover type (Open end)  
C-UKT...D1

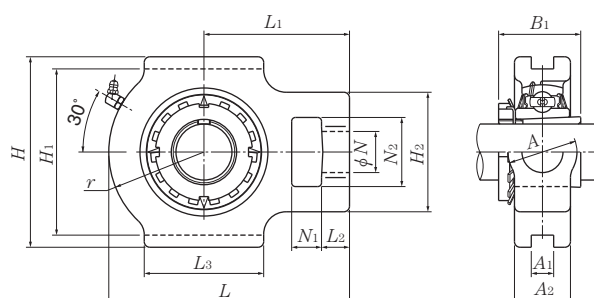


Cast dust cover type (Close end)  
CM-UKT...D1

| Bearing number <sup>2) 3)</sup>                                        | Housing number <sup>1)</sup>         | Unit number <sup>1) 2) 3)</sup><br>cast dust cover type                                               | Nominal dimensions |                  |                | Mass (approx.) |            |
|------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------|------------------|----------------|----------------|------------|
|                                                                        |                                      |                                                                                                       | mm                 |                  | inch           | kg             | lb         |
|                                                                        |                                      |                                                                                                       | t                  | L <sub>4</sub>   | A <sub>5</sub> | UKTX           | C(CM)      |
| UKX05D1;H2305X<br>UKX05D1;HE2305                                       | TX05D1<br>TX05D1                     | C(CM)-UKTX05D1;H2305X<br>C(CM)-UKTX05ED1;HE2305                                                       | 12<br>15/32        | 113.5<br>4 15/32 | 75<br>2 15/16  | 1.3<br>2.9     | 1.8<br>4.0 |
| UKX06D1;H2306X<br>UKX06D1;HS2306<br>UKX06D1;HE2306X                    | TX06D1<br>TX06D1<br>TX06D1           | C(CM)-UKTX06D1;H2306X<br>C(CM)-UKTX06SD1;HS2306<br>C(CM)-UKTX06ED1;HE2306X                            | 13<br>33/64        | 129<br>5 3/32    | 80<br>3 5/32   | 1.7<br>3.8     | 2.2<br>4.9 |
| UKX07D1;H2307X<br>UKX07D1;HS2307                                       | TX07D1<br>TX07D1                     | C(CM)-UKTX07D1;H2307X<br>C(CM)-UKTX07SD1;HS2307                                                       | 15<br>19/32        | 144<br>5 21/32   | 90<br>3 17/32  | 2.7<br>6.0     | 3.5<br>7.7 |
| UKX08D1;H2308X<br>UKX08D1;HE2308X<br>UKX08D1;HS2308X                   | TX08D1<br>TX08D1<br>TX08D1           | C(CM)-UKTX08D1;H2308X<br>C(CM)-UKTX08ED1;HE2308X<br>C(CM)-UKTX08SD1;HS2308X                           | 17<br>21/32        | 144.5<br>5 11/16 | 95<br>3 3/4    | 2.8<br>6.2     | 3.7<br>8.2 |
| UKX09D1;H2309X<br>UKX09D1;HA2309<br>UKX09D1;HE2309X<br>UKX09D1;HS2309X | TX09D1<br>TX09D1<br>TX09D1<br>TX09D1 | C(CM)-UKTX09D1;H2309X<br>C(CM)-UKTX09AD1;HA2309<br>C(CM)-UKTX09ED1;HE2309X<br>C(CM)-UKTX09SD1;HS2309X | 18<br>23/32        | 152<br>5 31/32   | 100<br>3 15/16 | 2.7<br>6.0     | 3.8<br>8.4 |
| UKX10D1;H2310X<br>UKX10D1;HS2310<br>UKX10D1;HA2310<br>UKX10D1;HE2310X  | TX10D1<br>TX10D1<br>TX10D1<br>TX10D1 | C(CM)-UKTX10D1;H2310X<br>C(CM)-UKTX10SD1;HS2310<br>C(CM)-UKTX10AD1;HA2310<br>C(CM)-UKTX10ED1;HE2310X  | 15<br>19/32        | 171.5<br>6 3/4   | 100<br>3 15/16 | 4.3<br>9.5     | 5.5<br>12  |
| UKX11D1;H2311X<br>UKX11D1;HS2311<br>UKX11D1;HA2311<br>UKX11D1;HE2311XY | TX11D1<br>TX11D1<br>TX11D1<br>TX11D1 | C(CM)-UKTX11D1;H2311X<br>C(CM)-UKTX11SD1;HS2311<br>C(CM)-UKTX11AD1;HA2311<br>C(CM)-UKTX11ED1;HE2311XY | 21<br>13/16        | 194<br>7 5/8     | 115<br>4 17/32 | 5.1<br>11      | 6.6<br>15  |
| UKX12D1;H2312X<br>UKX12D1;HS2312                                       | TX12D1<br>TX12D1                     | C(CM)-UKTX12D1;H2312X<br>C(CM)-UKTX12SD1;HS2312                                                       | 22<br>7/8          | 224<br>8 13/16   | 120<br>4 23/32 | 7.2<br>16      | 9.0<br>20  |
| UKX13D1;H2313X<br>UKX13D1;HA2313<br>UKX13D1;HE2313X<br>UKX13D1;HS2313X | TX13D1<br>TX13D1<br>TX13D1<br>TX13D1 | C(CM)-UKTX13D1;H2313X<br>C(CM)-UKTX13AD1;HA2313<br>C(CM)-UKTX13ED1;HE2313X<br>C(CM)-UKTX13SD1;HS2313X | 26<br>1 1/32       | 224<br>8 13/16   | 135<br>5 5/16  | 7.2<br>16      | 9.5<br>21  |



## Take-up units cast housing Adapter type



| Shaft<br>dia.    | Unit number <sup>1) 2) 3)</sup> | Nominal dimensions |                 |                |                |                |                 |       |                  |                  |                 |                |                |                  |                |       |
|------------------|---------------------------------|--------------------|-----------------|----------------|----------------|----------------|-----------------|-------|------------------|------------------|-----------------|----------------|----------------|------------------|----------------|-------|
|                  |                                 | mm                 |                 |                |                |                |                 |       | inch             |                  |                 |                |                |                  |                |       |
|                  |                                 | $N_1$              | $L_2$           | $H_2$          | $N_2$          | $N$            | $L_3$           | $A_1$ | $H_1$            | $H$              | $L$             | $A_2$          | $A$            | $r$              | $L_1$          | $B_1$ |
| <b>65</b>        | <b>UKTX15D1;H2315X</b>          | 32                 | 23              | 111            | 70             | 41             | 121             | 28    | 165              | 184              | 235             | 48             | 70             | 95               | 140            | 73    |
| $2\frac{7}{16}$  | <b>UKTX15D1;HA2315</b>          | $1\frac{1}{4}$     | $2\frac{9}{32}$ | $4\frac{3}{8}$ | $2\frac{3}{4}$ | $1\frac{5}{8}$ | $4\frac{3}{4}$  | 1.102 | $6\frac{1}{2}$   | $7\frac{1}{4}$   | $9\frac{1}{4}$  | $1\frac{7}{8}$ | $2\frac{3}{4}$ | $3\frac{3}{4}$   | $5\frac{1}{2}$ | 2.874 |
| $2\frac{1}{2}$   | <b>UKTX15D1;HE2315X</b>         |                    |                 |                |                |                |                 |       |                  |                  |                 |                |                |                  |                |       |
| <b>70</b>        | <b>UKTX16D1;H2316X</b>          | 38                 | 30              | 124            | 73             | 48             | 157             | 28    | 173              | 198              | 260             | 54             | 73             | 98               | 162            | 78    |
| $2\frac{11}{16}$ | <b>UKTX16D1;HA2316</b>          | $1\frac{1}{2}$     | $1\frac{3}{16}$ | $4\frac{7}{8}$ | $2\frac{7}{8}$ | $1\frac{7}{8}$ | $6\frac{3}{16}$ | 1.102 | $6\frac{13}{16}$ | $7\frac{25}{32}$ | $10\frac{1}{4}$ | $2\frac{1}{8}$ | $2\frac{7}{8}$ | $3\frac{27}{32}$ | $6\frac{3}{8}$ | 3.071 |
| $2\frac{3}{4}$   | <b>UKTX16D1;HE2316X</b>         |                    |                 |                |                |                |                 |       |                  |                  |                 |                |                |                  |                |       |
| <b>75</b>        | <b>UKTX17D1;H2317X</b>          | 38                 | 30              | 124            | 73             | 48             | 157             | 28    | 173              | 198              | 260             | 54             | 73             | 98               | 162            | 82    |
| $2\frac{15}{16}$ | <b>UKTX17D1;HA2317X</b>         | $1\frac{1}{2}$     | $1\frac{3}{16}$ | $4\frac{7}{8}$ | $2\frac{7}{8}$ | $1\frac{7}{8}$ | $6\frac{3}{16}$ | 1.102 | $6\frac{13}{16}$ | $7\frac{25}{32}$ | $10\frac{1}{4}$ | $2\frac{1}{8}$ | $2\frac{7}{8}$ | $3\frac{27}{32}$ | $6\frac{3}{8}$ | 3.228 |
| <b>3</b>         | <b>UKTX17D1;HE2317X</b>         |                    |                 |                |                |                |                 |       |                  |                  |                 |                |                |                  |                |       |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

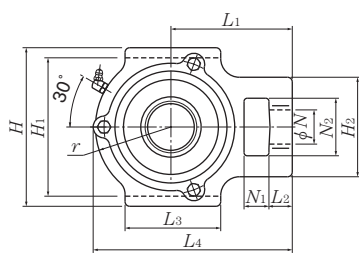
2) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

In this case the lock washer with the straight inner prong should be used.

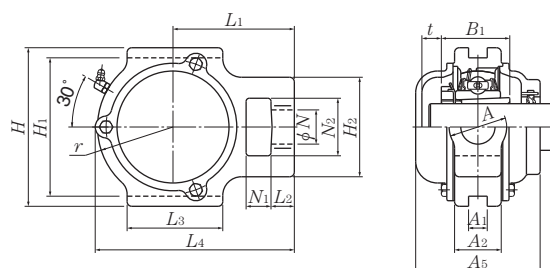
3) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.

To distinguish it, a suffix "Y" is added.

Note: Please refer to page 36 for size of grease fitting.



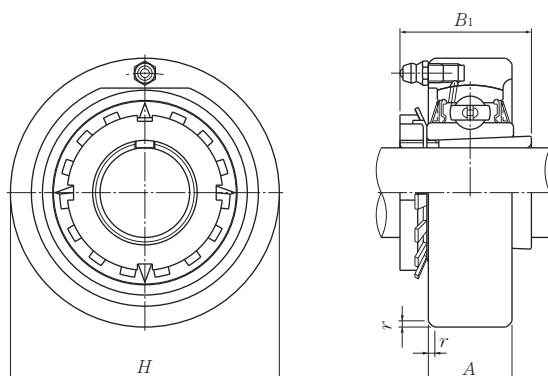
Cast dust cover type (Open end)  
C-UKT...D1



Cast dust cover type (Close end)  
CM-UKT...D1

| Bearing number <sup>2) 3)</sup> | Housing number <sup>1)</sup> | Unit number <sup>1) 2) 3)</sup><br>cast dust cover type | Nominal dimensions             |                                 |                                 | Mass (approx.) |       |
|---------------------------------|------------------------------|---------------------------------------------------------|--------------------------------|---------------------------------|---------------------------------|----------------|-------|
|                                 |                              |                                                         | mm                             |                                 | inch                            | kg             | lb    |
|                                 |                              |                                                         | t                              | L <sub>4</sub>                  | A <sub>5</sub>                  | UKTX           | C(CM) |
| UKX15D1;H2315X                  | TX15D1                       | C(CM)-UKTX15D1;H2315X                                   | 29                             | 235                             | 145                             | 8.5            | 11    |
| UKX15D1;HA2315                  | TX15D1                       | C(CM)-UKTX15AD1;HA2315                                  | 1 <sup>5</sup> / <sub>32</sub> | 9 <sup>1</sup> / <sub>4</sub>   | 5 <sup>23</sup> / <sub>32</sub> | 19             | 24    |
| UKX15D1;HE2315X                 | TX15D1                       | C(CM)-UKTX15ED1;HE2315X                                 |                                |                                 |                                 |                |       |
| UKX16D1;H2316X                  | TX16D1                       | C(CM)-UKTX16D1;H2316X                                   | 31                             | 260                             | 155                             | 11             | 14    |
| UKX16D1;HA2316                  | TX16D1                       | C(CM)-UKTX16AD1;HA2316                                  | 1 <sup>7</sup> / <sub>32</sub> | 10 <sup>1</sup> / <sub>4</sub>  | 6 <sup>3</sup> / <sub>32</sub>  | 24             | 31    |
| UKX16D1;HE2316X                 | TX16D1                       | C(CM)-UKTX16ED1;HE2316X                                 |                                |                                 |                                 |                |       |
| UKX17D1;H2317X                  | TX17D1                       | C(CM)-UKTX17D1;H2317X                                   | 35                             | 262                             | 165                             | 11             | 15    |
| UKX17D1;HA2317X                 | TX17D1                       | C(CM)-UKTX17AD1;HA2317X                                 | 1 <sup>3</sup> / <sub>8</sub>  | 10 <sup>5</sup> / <sub>16</sub> | 6 <sup>1</sup> / <sub>2</sub>   | 24             | 33    |
| UKX17D1;HE2317X                 | TX17D1                       | C(CM)-UKTX17ED1;HE2317X                                 |                                |                                 |                                 |                |       |

# Cartridge units cast housing Adapter type



| Shaft<br>dia.                   | Unit number <sup>1) 2) 3)</sup>                                            | Nominal dimensions |               |              |                | Bearing number <sup>2) 3)</sup>                                        | Housing<br>number <sup>1)</sup>      | Mass<br>(approx.) |
|---------------------------------|----------------------------------------------------------------------------|--------------------|---------------|--------------|----------------|------------------------------------------------------------------------|--------------------------------------|-------------------|
|                                 |                                                                            | mm                 | inch          |              |                |                                                                        |                                      |                   |
| mm<br>inch                      |                                                                            | H                  | A             | r            | B <sub>1</sub> |                                                                        |                                      | kg lb             |
| 20<br>3/4                       | UKC205D1;H2305X<br>UKC205D1;HE2305                                         | 80<br>3.1496       | 22<br>55/64   | 2<br>0.079   | 35<br>1.378    | UK205D1;H2305X<br>UK205D1;HE2305                                       | C205D1<br>C205D1                     | 0.7<br>1.5        |
| 25<br>7/8<br>1                  | UKC206D1;H2306X<br>UKC206D1;HS2306<br>UKC206D1;HE2306X                     | 85<br>3.3465       | 27<br>1 1/16  | 2<br>0.079   | 38<br>1.496    | UK206D1;H2306X<br>UK206D1;HS2306<br>UK206D1;HE2306X                    | C206D1<br>C206D1<br>C206D1           | 0.9<br>2.0        |
| 30<br>1 1/8                     | UKC207D1;H2307X<br>UKC207D1;HS2307                                         | 90<br>3.5433       | 28<br>1 7/64  | 2<br>0.079   | 43<br>1.693    | UK207D1;H2307X<br>UK207D1;HS2307                                       | C207D1<br>C207D1                     | 1.0<br>2.2        |
| 35<br>1 1/4<br>1 3/8            | UKC208D1;H2308X<br>UKC208D1;HE2308X<br>UKC208D1;HS2308X                    | 100<br>3.9370      | 30<br>1 3/16  | 2.5<br>0.098 | 46<br>1.811    | UK208D1;H2308X<br>UK208D1;HE2308X<br>UKC208D1;HS2308X                  | C208D1<br>C208D1<br>C208D1           | 1.3<br>2.9        |
| 40<br>1 7/16<br>1 1/2<br>1 5/8  | UKC209D1;H2309X<br>UKC209D1;HA2309<br>UKC209D1;HE2309X<br>UKC209D1;HS2309X | 110<br>4.3307      | 31<br>1 7/32  | 2.5<br>0.098 | 50<br>1.969    | UK209D1;H2309X<br>UK209D1;HA2309<br>UK209D1;HE2309X<br>UK209D1;HS2309X | C209D1<br>C209D1<br>C209D1<br>C209D1 | 1.6<br>3.5        |
| 45<br>1 5/8<br>1 11/16<br>1 3/4 | UKC210D1;H2310X<br>UKC210D1;HS2310<br>UKC210D1;HA2310<br>UKC210D1;HE2310X  | 120<br>4.7244      | 33<br>1 19/64 | 2.5<br>0.098 | 55<br>2.165    | UK210D1;H2310X<br>UK210D1;HS2310<br>UK210D1;HA2310<br>UK210D1;HE2310X  | C210D1<br>C210D1<br>C210D1<br>C210D1 | 2.1<br>4.6        |
| 50<br>1 7/8<br>1 15/16<br>2     | UKC211D1;H2311X<br>UKC211D1;HS2311<br>UKC211D1;HA2311<br>UKC211D1;HE2311XY | 125<br>4.9213      | 35<br>1 3/8   | 2.5<br>0.098 | 59<br>2.323    | UK211D1;H2311X<br>UK211D1;HS2311<br>UK211D1;HA2311<br>UK211D1;HE2311XY | C211D1<br>C211D1<br>C211D1<br>C211D1 | 2.3<br>5.1        |
| 55<br>2 1/8                     | UKC212D1;H2312X<br>UKC212D1;HS2312                                         | 130<br>5.1181      | 38<br>1 1/2   | 2.5<br>0.098 | 62<br>2.441    | UK212D1;H2312X<br>UK212D1;HS2312                                       | C212D1<br>C212D1                     | 2.6<br>5.7        |
| 60<br>2 3/16<br>2 1/4<br>2 3/8  | UKC213D1;H2313X<br>UKC213D1;HA2313<br>UKC213D1;HE2313X<br>UKC213D1;HS2313X | 140<br>5.5118      | 40<br>1 37/64 | 3<br>0.118   | 65<br>2.559    | UK213D1;H2313X<br>UK213D1;HA2313<br>UK213D1;HE2313X<br>UK213D1;HS2313X | C213D1<br>C213D1<br>C213D1<br>C213D1 | 3.2<br>7.1        |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

2) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

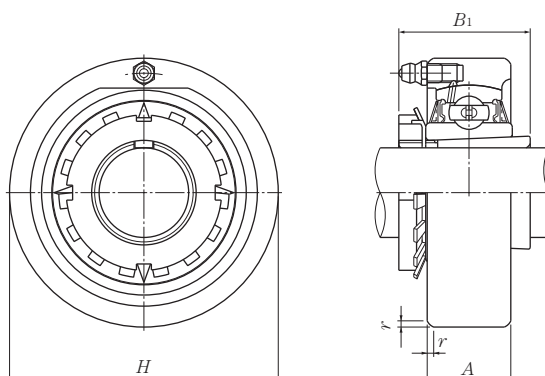
In this case the lock washer with the straight inner prong should be used.

3) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.

To distinguish it, a suffix "Y" is added.

Note: Please refer to page 36 for size of grease fitting.

# Cartridge units cast housing Adapter type



| Shaft<br>dia. | Unit number <sup>1) 2) 3)</sup> | Nominal dimensions |         |       |                | Bearing number <sup>2) 3)</sup> | Housing<br>number <sup>1)</sup> | Mass<br>(approx.) |
|---------------|---------------------------------|--------------------|---------|-------|----------------|---------------------------------|---------------------------------|-------------------|
|               |                                 | mm                 | inch    |       |                |                                 |                                 |                   |
| mm            |                                 | H                  | A       | r     | B <sub>1</sub> |                                 |                                 | kg lb             |
| 20            | UKC305D1;H2305X                 | 90                 | 26      | 2.5   | 35             | UK305D1;H2305X                  | C305D1                          | 1.0               |
| 3/4           | UKC305D1;HE2305                 | 3.5433             | 1 1/32  | 0.098 | 1.378          | UK305D1;HE2305                  | C305D1                          | 2.2               |
| 25            | UKC306D1;H2306X                 | 100                | 28      | 2.5   | 38             | UK306D1;H2306X                  | C306D1                          | 1.3               |
| 7/8           | UKC306D1;HS2306                 | 3.9370             | 1 7/64  | 0.098 | 1.496          | UK306D1;HS2306                  | C306D1                          | 2.9               |
| 1             | UKC306D1;HE2306X                |                    |         |       |                | UK306D1;HE2306X                 | C306D1                          |                   |
| 30            | UKC307D1;H2307X                 | 110                | 32      | 3     | 43             | UK307D1;H2307X                  | C307D1                          | 1.8               |
| 1 1/8         | UKC307D1;HS2307                 | 4.3307             | 1 17/64 | 0.118 | 1.693          | UK307D1;HS2307                  | C307D1                          | 4.0               |
| 35            | UKC308D1;H2308X                 | 120                | 34      | 3     | 46             | UK308D1;H2308X                  | C308D1                          | 2.2               |
| 1 1/4         | UKC308D1;HE2308X                | 4.7244             | 1 11/32 | 0.118 | 1.811          | UK308D1;HE2308X                 | C308D1                          | 4.9               |
| 1 3/8         | UKC308D1;HS2308X                |                    |         |       |                | UK308D1;HS2308X                 | C308D1                          |                   |
| 40            | UKC309D1;H2309X                 | 130                | 38      | 3.5   | 50             | UK309D1;H2309X                  | C309D1                          | 2.7               |
| 1 7/16        | UKC309D1;HA2309                 |                    |         |       |                | UK309D1;HA2309                  | C309D1                          |                   |
| 1 1/2         | UKC309D1;HE2309X                | 5.1181             | 1 1/2   | 0.138 | 1.969          | UK309D1;HE2309X                 | C309D1                          | 6.0               |
| 1 5/8         | UKC309D1;HS2309X                |                    |         |       |                | UK309D1;HS2309X                 | C309D1                          |                   |
| 45            | UKC310D1;H2310X                 | 140                | 40      | 3.5   | 55             | UK310D1;H2310X                  | C310D1                          | 3.4               |
| 1 5/8         | UKC310D1;HS2310                 |                    |         |       |                | UK310D1;HS2310                  | C310D1                          |                   |
| 1 11/16       | UKC310D1;HA2310                 | 5.5118             | 1 37/64 | 0.138 | 2.165          | UK310D1;HA2310                  | C310D1                          | 7.5               |
| 1 3/4         | UKC310D1;HE2310X                |                    |         |       |                | UK310D1;HE2310X                 | C310D1                          |                   |
| 50            | UKC311D1;H2311X                 | 150                | 44      | 3.5   | 59             | UK311D1;H2311X                  | C311D1                          | 4.0               |
| 1 7/8         | UKC311D1;HS2311                 |                    |         |       |                | UK311D1;HS2311                  | C311D1                          |                   |
| 1 15/16       | UKC311D1;HA2311                 | 5.9055             | 1 47/64 | 0.138 | 2.323          | UK311D1;HA2311                  | C311D1                          | 8.8               |
| 2             | UKC311D1;HE2311XY               |                    |         |       |                | UK311D1;HE2311XY                | C311D1                          |                   |
| 55            | UKC312D1;H2312X                 | 160                | 46      | 3.5   | 62             | UK312D1;H2312X                  | C312D1                          | 4.8               |
| 2 1/8         | UKC312D1;HS2312                 | 6.2992             | 1 13/16 | 0.138 | 2.441          | UK312D1;HS2312                  | C312D1                          | 11                |
| 60            | UKC313D1;H2313X                 | 170                | 50      | 3.5   | 65             | UK313D1;H2313X                  | C313D1                          | 5.6               |
| 2 3/16        | UKC313D1;HA2313                 |                    |         |       |                | UK313D1;HA2313                  | C313D1                          |                   |
| 2 1/4         | UKC313D1;HE2313X                | 6.6929             | 1 31/32 | 0.138 | 2.559          | UK313D1;HE2313X                 | C313D1                          | 12                |
| 2 3/8         | UKC313D1;HS2313X                |                    |         |       |                | UK313D1;HS2313X                 | C313D1                          |                   |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

2) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

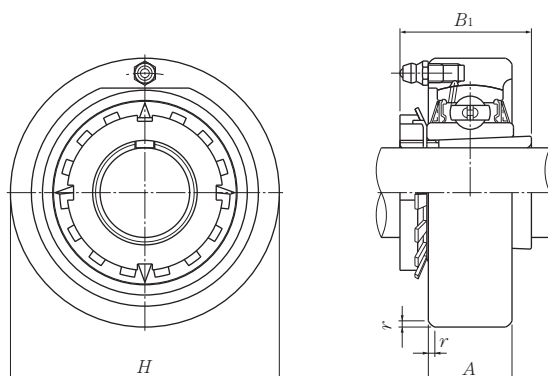
In this case the lock washer with the straight inner prong should be used.

3) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.

To distinguish it, a suffix "Y" is added.

Note: Please refer to page 36 for size of grease fitting.

## Cartridge units cast housing Adapter type



| Shaft<br>dia.                                                          | Unit number <sup>1) 2) 3)</sup>                         | Nominal dimensions |                                       |            |                | Bearing number <sup>2) 3)</sup>                      | Housing<br>number <sup>1)</sup> | Mass<br>(approx.) |
|------------------------------------------------------------------------|---------------------------------------------------------|--------------------|---------------------------------------|------------|----------------|------------------------------------------------------|---------------------------------|-------------------|
|                                                                        |                                                         | H                  | A                                     | r          | B <sub>1</sub> |                                                      |                                 |                   |
| mm<br>inch                                                             |                                                         | mm                 | inch                                  |            |                |                                                      |                                 | kg lb             |
| 65<br>2 <sup>7</sup> / <sub>16</sub><br>2 <sup>1</sup> / <sub>2</sub>  | UKC315D1;H2315X<br>UKC315D1;HA2315<br>UKC315D1;HE2315X  | 190<br>7.4803      | 55<br>2 <sup>11</sup> / <sub>16</sub> | 4<br>0.157 | 73<br>2.874    | UK315D1;H2315X<br>UK315D1;HA2315<br>UK315D1;HE2315X  | C315D1<br>C315D1<br>C315D1      | 7.9<br>17         |
| 70<br>2 <sup>11</sup> / <sub>16</sub><br>2 <sup>3</sup> / <sub>4</sub> | UKC316D1;H2316X<br>UKC316D1;HA2316<br>UKC316D1;HE2316X  | 200<br>7.8740      | 60<br>2 <sup>23</sup> / <sub>64</sub> | 4<br>0.157 | 78<br>3.071    | UK316D1;H2316X<br>UK316D1;HA2316<br>UK316D1;HE2316X  | C316D1<br>C316D1<br>C316D1      | 9.4<br>20         |
| 75<br>2 <sup>15</sup> / <sub>16</sub><br>3                             | UKC317D1;H2317X<br>UKC317D1;HA2317X<br>UKC317D1;HE2317X | 215<br>8.4646      | 64<br>2 <sup>33</sup> / <sub>64</sub> | 4<br>0.157 | 82<br>3.228    | UK317D1;H2317X<br>UK317D1;HA2317X<br>UK317D1;HE2317X | C317D1<br>C317D1<br>C317D1      | 11<br>24          |
| 80<br>3 <sup>3</sup> / <sub>16</sub>                                   | UKC318D1;H2318X<br>UKC318D1;HA2318X                     | 225<br>8.8583      | 66<br>2 <sup>19</sup> / <sub>32</sub> | 4<br>0.157 | 86<br>3.386    | UK318D1;H2318X<br>UK318D1;HA2318X                    | C318D1<br>C318D1                | 13<br>29          |
| 85<br>3 <sup>1</sup> / <sub>4</sub>                                    | UKC319D1;H2319X<br>UKC319D1;HE2319X                     | 240<br>9.4488      | 72<br>2 <sup>53</sup> / <sub>64</sub> | 4<br>0.157 | 90<br>3.543    | UK319D1;H2319X<br>UK319D1;HE2319X                    | C319D1<br>C319D1                | 16<br>35          |
| 90<br>3 <sup>7</sup> / <sub>16</sub><br>3 <sup>1</sup> / <sub>2</sub>  | UKC320D1;H2320X<br>UKC320D1;HA2320<br>UKC320D1;HE2320X  | 260<br>10.2362     | 75<br>2 <sup>61</sup> / <sub>64</sub> | 4<br>0.157 | 97<br>3.819    | UK320D1;H2320X<br>UK320D1;HA2320<br>UK320D1;HE2320X  | C320D1<br>C320D1<br>C320D1      | 20<br>44          |
| 100                                                                    | UKC322D1;H2322X                                         | 300                | 80                                    | 5          | 105            | UK322D1;H2322X                                       | C322D1                          | 29                |
| 110                                                                    | UKC324D1;H2324X                                         | 320                | 90                                    | 5          | 112            | UK324D1;H2324X                                       | C324D1                          | 35                |
| 115                                                                    | UKC326D1;H2326                                          | 340                | 100                                   | 5          | 121            | UK326D1;H2326                                        | C326D1                          | 43                |
| 125                                                                    | UKC328D1;H2328                                          | 360                | 100                                   | 5          | 131            | UK328D1;H2328                                        | C328D1                          | 50                |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

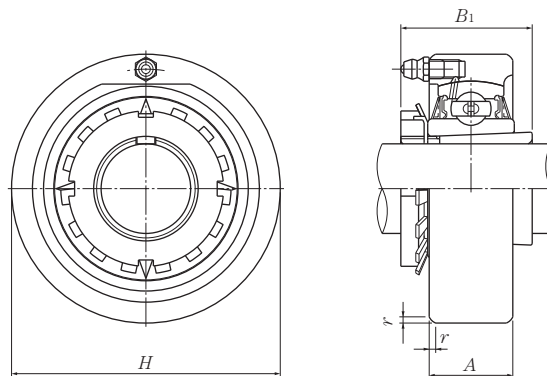
2) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

In this case the lock washer with the straight inner prong should be used.

3) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.  
To distinguish it, a suffix "Y" is added.

Note: Please refer to page 36 for size of grease fitting.

# Cartridge units cast housing Adapter type



| Shaft<br>dia. | Unit number <sup>1) 2) 3)</sup> | Nominal dimensions |         |       |                | Bearing number <sup>2) 3)</sup> | Housing <sup>1)</sup><br>number | Mass<br>(approx.) |
|---------------|---------------------------------|--------------------|---------|-------|----------------|---------------------------------|---------------------------------|-------------------|
|               |                                 | H                  | A       | r     | B <sub>1</sub> |                                 |                                 |                   |
| mm            |                                 | mm                 | inch    |       |                |                                 |                                 | kg lb             |
| inch          |                                 |                    |         |       |                |                                 |                                 |                   |
| 20            | UKCX05D1;H2305X                 | 90                 | 27      | 2     | 35             | UKX05D1;H2305X                  | CX05D1                          | 1.1               |
| 3/4           | UKCX05D1;HE2305                 | 3.5433             | 1 1/16  | 0.079 | 1.378          | UKX05D1;HE2305                  | CX05D1                          | 2.4               |
| 25            | UKCX06D1;H2306X                 | 100                | 30      | 2.5   | 38             | UKX06D1;H2306X                  | CX06D1                          | 1.4               |
| 7/8           | UKCX06D1;HS2306                 | 3.9370             | 1 3/16  | 0.098 | 1.496          | UKX06D1;HS2306                  | CX06D1                          | 3.1               |
| 1             | UKCX06D1;HE2306X                |                    |         |       |                | UKX06D1;HE2306X                 | CX06D1                          |                   |
| 30            | UKCX07D1;H2307X                 | 110                | 34      | 2.5   | 43             | UKX07D1;H2307X                  | CX07D1                          | 1.8               |
| 1 1/8         | UKCX07D1;HS2307                 | 4.3307             | 1 11/32 | 0.098 | 1.693          | UKX07D1;HS2307                  | CX07D1                          | 4.0               |
| 35            | UKCX08D1;H2308X                 | 120                | 38      | 2.5   | 46             | UKX08D1;H2308X                  | CX08D1                          | 2.5               |
| 1 1/4         | UKCX08D1;HE2308X                | 4.7244             | 1 1/2   | 0.098 | 1.811          | UKX08D1;HE2308X                 | CX08D1                          | 5.5               |
| 1 3/8         | UKCX08D1;HS2308X                |                    |         |       |                | UKX08D1;HS2308X                 | CX08D1                          |                   |
| 40            | UKCX09D1;H2309X                 | 120                | 38      | 2.5   | 50             | UKX09D1;H2309X                  | CX09D1                          | 2.2               |
| 1 7/16        | UKCX09D1;HA2309                 |                    |         |       |                | UKX09D1;HA2309                  | CX09D1                          |                   |
| 1 1/2         | UKCX09D1;HE2309X                | 4.7244             | 1 1/2   | 0.098 | 1.969          | UKX09D1;HE2309X                 | CX09D1                          | 4.9               |
| 1 5/8         | UKCX09D1;HS2309X                |                    |         |       |                | UKX09D1;HS2309X                 | CX09D1                          |                   |
| 45            | UKCX10D1;H2310X                 | 130                | 40      | 2.5   | 55             | UKX10D1;H2310X                  | CX10D1                          | 2.7               |
| 1 5/8         | UKCX10D1;HS2310                 |                    |         |       |                | UKX10D1;HS2310                  | CX10D1                          |                   |
| 1 11/16       | UKCX10D1;HA2310                 | 5.1181             | 1 37/64 | 0.098 | 2.165          | UKX10D1;HA2310                  | CX10D1                          | 6.0               |
| 1 3/4         | UKCX10D1;HE2310X                |                    |         |       |                | UKX10D1;HE2310X                 | CX10D1                          |                   |
| 50            | UKCX11D1;H2311X                 | 150                | 42      | 3     | 59             | UKX11D1;H2311X                  | CX11D1                          | 4.0               |
| 1 7/8         | UKCX11D1;HS2311                 |                    |         |       |                | UKX11D1;HS2311                  | CX11D1                          |                   |
| 1 15/16       | UKCX11D1;HA2311                 | 5.9055             | 1 21/32 | 0.118 | 2.323          | UKX11D1;HA2311                  | CX11D1                          | 8.8               |
| 2             | UKCX11D1;HE2311XY               |                    |         |       |                | UKX11D1;HE2311X                 | CX11D1                          |                   |
| 55            | UKCX12D1;H2312X                 | 160                | 44      | 3     | 62             | UKX12D1;H2312X                  | CX12D1                          | 3.9               |
| 2 1/8         | UKCX12D1;HS2312                 | 6.2992             | 1 47/64 | 0.118 | 2.441          | UKX12D1;HS2312                  | CX12D1                          | 8.6               |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

2) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

In this case the lock washer with the straight inner prong should be used.

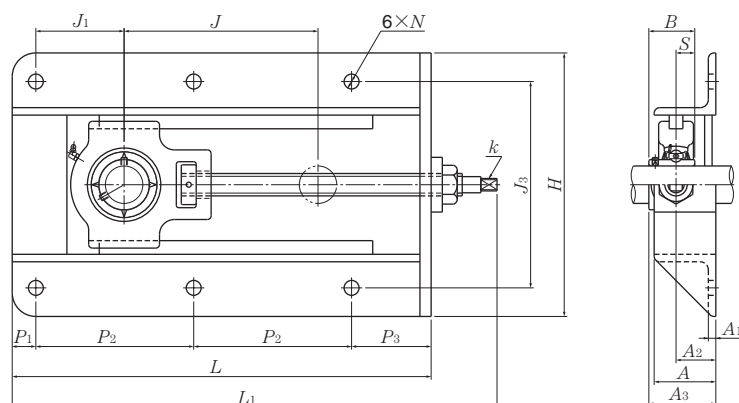
3) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.

To distinguish it, a suffix "Y" is added.

Note: Please refer to page 36 for size of grease fitting.

## Take-up stretcher units

### Set screw type



| Shaft<br>dia.<br><br>mm | Unit <sup>1)</sup><br>number | Nominal dimensions |          |          |                       |                       |                       |                       |          |                       |                       |                       |          |                       |                       |          |          |                    |
|-------------------------|------------------------------|--------------------|----------|----------|-----------------------|-----------------------|-----------------------|-----------------------|----------|-----------------------|-----------------------|-----------------------|----------|-----------------------|-----------------------|----------|----------|--------------------|
|                         |                              | <i>L</i>           | <i>H</i> | <i>J</i> | <i>J</i> <sub>1</sub> | <i>J</i> <sub>3</sub> | <i>A</i> <sub>1</sub> | <i>A</i> <sub>2</sub> | <i>A</i> | <i>P</i> <sub>1</sub> | <i>P</i> <sub>2</sub> | <i>P</i> <sub>3</sub> | <i>N</i> | <i>L</i> <sub>1</sub> | <i>A</i> <sub>3</sub> | <i>B</i> | <i>S</i> | <i>k</i><br>square |
| 12                      | UCT201-15D1                  | 317                | 199      | 150      | 69                    | 154                   | 6                     | 30                    | 50       | 19                    | 117                   | 64                    | 12       | 370                   | 48.3                  | 31       | 12.7     | 9                  |
| 15                      | UCT202-15D1                  | 317                | 199      | 150      | 69                    | 154                   | 6                     | 30                    | 50       | 19                    | 117                   | 64                    | 12       | 370                   | 48.3                  | 31       | 12.7     | 9                  |
| 17                      | UCT203-15D1                  | 317                | 199      | 150      | 69                    | 154                   | 6                     | 30                    | 50       | 19                    | 117                   | 64                    | 12       | 370                   | 48.3                  | 31       | 12.7     | 9                  |
| 20                      | UCT204-15D1                  | 317                | 199      | 150      | 69                    | 154                   | 6                     | 30                    | 50       | 19                    | 117                   | 64                    | 12       | 370                   | 48.3                  | 31       | 12.7     | 9                  |
| 25                      | UCT205-15D1                  | 317                | 199      | 150      | 68                    | 154                   | 6                     | 30                    | 50       | 19                    | 117                   | 64                    | 12       | 370                   | 49.8                  | 34.1     | 14.3     | 9                  |
| 30                      | UCT206-15D1                  | 337                | 212      | 150      | 78                    | 166                   | 6                     | 32                    | 50       | 19                    | 127                   | 64                    | 12       | 393                   | 54.2                  | 38.1     | 15.9     | 10                 |
| 35                      | UCT207-23D1                  | 429                | 212      | 230      | 80                    | 166                   | 6                     | 32                    | 50       | 19                    | 173                   | 64                    | 12       | 485                   | 57.4                  | 42.9     | 17.5     | 10                 |
| 40                      | UCT208-30D1                  | 520                | 233      | 300      | 88                    | 192                   | 6                     | 32                    | 50       | 22                    | 217                   | 64                    | 12       | 596                   | 62.2                  | 49.2     | 19       | 15                 |
| 45                      | UCT209-30D1                  | 520                | 233      | 300      | 88                    | 192                   | 6                     | 32                    | 50       | 22                    | 217                   | 64                    | 12       | 596                   | 62.2                  | 49.2     | 19       | 15                 |
| 50                      | UCT210-30D1                  | 524                | 233      | 300      | 92                    | 192                   | 6                     | 35                    | 50       | 22                    | 219                   | 64                    | 15       | 599                   | 67.6                  | 51.6     | 19       | 15                 |
| 55                      | UCT211-30D1                  | 542                | 285      | 300      | 93                    | 240                   | 8                     | 38                    | 65       | 22                    | 230                   | 60                    | 15       | 630                   | 71.4                  | 55.6     | 22.2     | 17                 |
| 60                      | UCT212-30D1                  | 568                | 285      | 300      | 103                   | 240                   | 8                     | 38                    | 65       | 22                    | 243                   | 60                    | 15       | 657                   | 77.7                  | 65.1     | 25.4     | 17                 |
| 65                      | UCT213-30D1                  | 606                | 306      | 300      | 125                   | 260                   | 8                     | 43                    | 65       | 22                    | 260                   | 64                    | 15       | 705                   | 82.7                  | 65.1     | 25.4     | 23                 |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

2) The Stretcher Unit is designed to only take a horizontal radial load, in line with the adjustment direction. Axial loads or vertical radial loads can deform or break the housing.

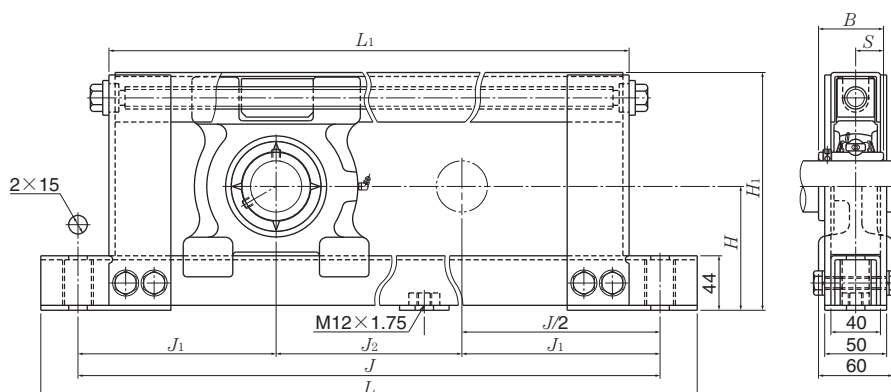
Note: Please refer to page 36 for size of grease fitting.

| Bolt size | Max. load <sup>2)</sup><br>recommended<br><br>N | Bearing number | Basic load ratings                   |                                      | Mass<br>(approx.)<br><br>kg |
|-----------|-------------------------------------------------|----------------|--------------------------------------|--------------------------------------|-----------------------------|
|           |                                                 |                | N<br>dynamic<br><i>C<sub>r</sub></i> | N<br>static<br><i>C<sub>0r</sub></i> |                             |
| M10       | 7 650                                           | UC201D1        | 12 800                               | 6 650                                | 5.0                         |
| M10       | 7 650                                           | UC202D1        | 12 800                               | 6 650                                | 5.0                         |
| M10       | 7 650                                           | UC203D1        | 12 800                               | 6 650                                | 5.0                         |
| M10       | 7 650                                           | UC204D1        | 12 800                               | 6 650                                | 5.0                         |
| M10       | 7 850                                           | UC205D1        | 14 000                               | 7 850                                | 5.0                         |
| M10       | 9 810                                           | UC206D1        | 19 500                               | 11 300                               | 5.7                         |
| M10       | 12 750                                          | UC207D1        | 25 700                               | 15 300                               | 6.8                         |
| M10       | 15 690                                          | UC208D1        | 29 100                               | 17 800                               | 11                          |
| M10       | 15 690                                          | UC209D1        | 32 500                               | 20 400                               | 11                          |
| M12       | 16 670                                          | UC210D1        | 35 000                               | 23 200                               | 11                          |
| M12       | 19 610                                          | UC211D1        | 43 500                               | 29 200                               | 18                          |
| M12       | 21 570                                          | UC212D1        | 52 500                               | 36 000                               | 20                          |
| M12       | 23 530                                          | UC213D1        | 57 500                               | 40 000                               | 23                          |



## Type L stretcher units

### Set screw type



| Shaft<br>dia. | Unit <sup>1)</sup><br>number | Nominal dimensions |          |          |                       |                             |                       |                       |          |          | Bolt<br>size | Max. load <sup>2)</sup><br>recommended | Bearing<br>number | Basic<br>load ratings                 |                                  | Mass<br>(approx.) |
|---------------|------------------------------|--------------------|----------|----------|-----------------------|-----------------------------|-----------------------|-----------------------|----------|----------|--------------|----------------------------------------|-------------------|---------------------------------------|----------------------------------|-------------------|
| mm            |                              | <i>H</i>           | <i>L</i> | <i>J</i> | <i>J</i> <sub>2</sub> | mm<br><i>L</i> <sub>1</sub> | <i>J</i> <sub>1</sub> | <i>H</i> <sub>1</sub> | <i>B</i> | <i>S</i> |              | N                                      |                   | N<br>dynamic<br><i>C</i> <sub>r</sub> | static<br><i>C</i> <sub>or</sub> | kg                |
| 20            | UCL204-10D1                  | 77                 | 430      | 370      | 100                   | 320                         | 135                   | 146                   | 31       | 12.7     | M12          | 1 960                                  | UC204D1           | 12 800                                | 6 650                            | 6.3               |
|               | UCL204-20D1                  | 77                 | 530      | 470      | 200                   | 420                         | 135                   | 146                   | 31       | 12.7     | M12          | 1 960                                  | UC204D1           | 12 800                                | 6 650                            | 7.0               |
|               | UCL204-30D1                  | 77                 | 630      | 570      | 300                   | 520                         | 135                   | 146                   | 31       | 12.7     | M12          | 1 960                                  | UC204D1           | 12 800                                | 6 650                            | 7.7               |
|               | UCL204-40D1                  | 77                 | 730      | 670      | 400                   | 620                         | 135                   | 146                   | 31       | 12.7     | M12          | 1 960                                  | UC204D1           | 12 800                                | 6 650                            | 8.4               |
| 25            | UCL205-10D1                  | 82                 | 440      | 380      | 100                   | 330                         | 140                   | 156                   | 34.1     | 14.3     | M12          | 2 250                                  | UC205D1           | 14 000                                | 7 850                            | 6.8               |
|               | UCL205-20D1                  | 82                 | 540      | 480      | 200                   | 430                         | 140                   | 156                   | 34.1     | 14.3     | M12          | 2 250                                  | UC205D1           | 14 000                                | 7 850                            | 7.5               |
|               | UCL205-30D1                  | 82                 | 640      | 580      | 300                   | 530                         | 140                   | 156                   | 34.1     | 14.3     | M12          | 2 250                                  | UC205D1           | 14 000                                | 7 850                            | 8.2               |
|               | UCL205-40D1                  | 82                 | 740      | 680      | 400                   | 630                         | 140                   | 156                   | 34.1     | 14.3     | M12          | 2 250                                  | UC205D1           | 14 000                                | 7 850                            | 8.9               |
| 30            | UCL206-10D1                  | 87                 | 450      | 390      | 100                   | 340                         | 145                   | 166                   | 38.1     | 15.9     | M12          | 3 230                                  | UC206D1           | 19 500                                | 11 300                           | 7.3               |
|               | UCL206-20D1                  | 87                 | 550      | 490      | 200                   | 440                         | 145                   | 166                   | 38.1     | 15.9     | M12          | 3 230                                  | UC206D1           | 19 500                                | 11 300                           | 8.0               |
|               | UCL206-30D1                  | 87                 | 650      | 590      | 300                   | 540                         | 145                   | 166                   | 38.1     | 15.9     | M12          | 3 230                                  | UC206D1           | 19 500                                | 11 300                           | 8.7               |
|               | UCL206-40D1                  | 87                 | 750      | 690      | 400                   | 640                         | 145                   | 166                   | 38.1     | 15.9     | M12          | 3 230                                  | UC206D1           | 19 500                                | 11 300                           | 9.4               |
| 35            | UCL207-10D1                  | 92                 | 460      | 400      | 100                   | 350                         | 150                   | 176                   | 42.9     | 17.5     | M12          | 4 210                                  | UC207D1           | 25 700                                | 15 300                           | 7.8               |
|               | UCL207-20D1                  | 92                 | 560      | 500      | 200                   | 450                         | 150                   | 176                   | 42.9     | 17.5     | M12          | 4 210                                  | UC207D1           | 25 700                                | 15 300                           | 8.5               |
|               | UCL207-30D1                  | 92                 | 660      | 600      | 300                   | 550                         | 150                   | 176                   | 42.9     | 17.5     | M12          | 4 210                                  | UC207D1           | 25 700                                | 15 300                           | 9.2               |
|               | UCL207-40D1                  | 92                 | 760      | 700      | 400                   | 650                         | 150                   | 176                   | 42.9     | 17.5     | M12          | 4 210                                  | UC207D1           | 25 700                                | 15 300                           | 9.9               |
| 40            | UCL208-10D1                  | 97                 | 470      | 410      | 100                   | 360                         | 155                   | 186                   | 49.2     | 19       | M12          | 4 500                                  | UC208D1           | 29 100                                | 17 800                           | 8.3               |
|               | UCL208-20D1                  | 97                 | 570      | 510      | 200                   | 460                         | 155                   | 186                   | 49.2     | 19       | M12          | 4 500                                  | UC208D1           | 29 100                                | 17 800                           | 9.0               |
|               | UCL208-30D1                  | 97                 | 670      | 610      | 300                   | 560                         | 155                   | 186                   | 49.2     | 19       | M12          | 4 500                                  | UC208D1           | 29 100                                | 17 800                           | 9.7               |
|               | UCL208-40D1                  | 97                 | 770      | 710      | 400                   | 660                         | 155                   | 186                   | 49.2     | 19       | M12          | 4 500                                  | UC208D1           | 29 100                                | 17 800                           | 10                |
| 45            | UCL209-10D1                  | 100                | 480      | 420      | 100                   | 370                         | 160                   | 192                   | 49.2     | 19       | M12          | 4 500                                  | UC209D1           | 32 500                                | 20 400                           | 8.7               |
|               | UCL209-20D1                  | 100                | 580      | 520      | 200                   | 470                         | 160                   | 192                   | 49.2     | 19       | M12          | 4 500                                  | UC209D1           | 32 500                                | 20 400                           | 9.4               |
|               | UCL209-30D1                  | 100                | 680      | 620      | 300                   | 570                         | 160                   | 192                   | 49.2     | 19       | M12          | 4 500                                  | UC209D1           | 32 500                                | 20 400                           | 10                |
|               | UCL209-40D1                  | 100                | 780      | 720      | 400                   | 670                         | 160                   | 192                   | 49.2     | 19       | M12          | 4 500                                  | UC209D1           | 32 500                                | 20 400                           | 11                |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

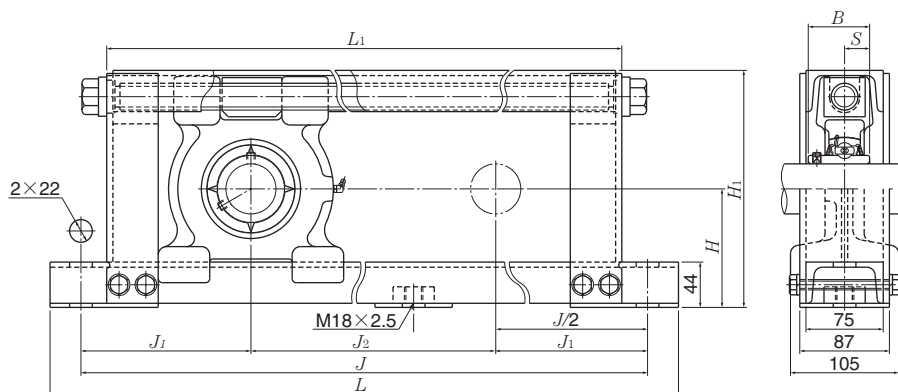
2) The Stretcher Unit is designed to only take a horizontal radial load, in line with the adjustment direction. Axial loads or vertical radial loads can deform or break the housing.

3) Installation of re-lubrication device to the grease fitting becomes difficult, when the housing moved to the right side.

Note: Please refer to page 36 for size of grease fitting.

## Type M stretcher units

### Set screw type



| Shaft<br>dia. | Unit <sup>1)</sup><br>number | Nominal dimensions |          |          |                       |                             |                       |                       |          |          | Bolt<br>size | Max. load <sup>2)</sup><br>recommended | Bearing<br>number | Basic<br>load ratings                 |                                  | Mass<br>(approx.) |
|---------------|------------------------------|--------------------|----------|----------|-----------------------|-----------------------------|-----------------------|-----------------------|----------|----------|--------------|----------------------------------------|-------------------|---------------------------------------|----------------------------------|-------------------|
| mm            |                              | <i>H</i>           | <i>L</i> | <i>J</i> | <i>J</i> <sub>2</sub> | mm<br><i>L</i> <sub>1</sub> | <i>J</i> <sub>1</sub> | <i>H</i> <sub>1</sub> | <i>B</i> | <i>S</i> |              | N                                      |                   | N<br>dynamic<br><i>C</i> <sub>r</sub> | static<br><i>C</i> <sub>or</sub> | kg                |
| 40            | UCM208-50D1                  | 97                 | 870      | 810      | 500                   | 760                         | 155                   | 190                   | 49.2     | 19       | M18          | 5 190                                  | UC208D1           | 29 100                                | 17 800                           | 20                |
|               | UCM208-60D1                  | 97                 | 970      | 910      | 600                   | 860                         | 155                   | 190                   | 49.2     | 19       | M18          | 5 190                                  | UC208D1           | 29 100                                | 17 800                           | 22                |
|               | UCM208-70D1                  | 97                 | 1 070    | 1 010    | 700                   | 960                         | 155                   | 190                   | 49.2     | 19       | M18          | 5 190                                  | UC208D1           | 29 100                                | 17 800                           | 23                |
|               | UCM208-80D1                  | 97                 | 1 170    | 1 110    | 800                   | 1 060                       | 155                   | 190                   | 49.2     | 19       | M18          | 5 190                                  | UC208D1           | 29 100                                | 17 800                           | 24                |
|               | UCM208-90D1                  | 97                 | 1 270    | 1 210    | 900                   | 1 160                       | 155                   | 190                   | 49.2     | 19       | M18          | 5 190                                  | UC208D1           | 29 100                                | 17 800                           | 30                |
| 45            | UCM209-50D1                  | 102                | 880      | 820      | 500                   | 770                         | 160                   | 200                   | 49.2     | 19       | M18          | 5 880                                  | UC209D1           | 32 500                                | 20 400                           | 21                |
|               | UCM209-60D1                  | 102                | 980      | 920      | 600                   | 870                         | 160                   | 200                   | 49.2     | 19       | M18          | 5 880                                  | UC209D1           | 32 500                                | 20 400                           | 23                |
|               | UCM209-70D1                  | 102                | 1 080    | 1 020    | 700                   | 970                         | 160                   | 200                   | 49.2     | 19       | M18          | 5 880                                  | UC209D1           | 32 500                                | 20 400                           | 24                |
|               | UCM209-80D1                  | 102                | 1 180    | 1 120    | 800                   | 1 070                       | 160                   | 200                   | 49.2     | 19       | M18          | 5 880                                  | UC209D1           | 32 500                                | 20 400                           | 30                |
|               | UCM209-90D1                  | 102                | 1 280    | 1 220    | 900                   | 1 170                       | 160                   | 200                   | 49.2     | 19       | M18          | 5 880                                  | UC209D1           | 32 500                                | 20 400                           | 32                |
| 50            | UCM210-50D1                  | 107                | 890      | 830      | 500                   | 780                         | 165                   | 210                   | 51.6     | 19       | M18          | 6 460                                  | UC210D1           | 35 000                                | 23 200                           | 23                |
|               | UCM210-60D1                  | 107                | 990      | 930      | 600                   | 880                         | 165                   | 210                   | 51.6     | 19       | M18          | 6 460                                  | UC210D1           | 35 000                                | 23 200                           | 24                |
|               | UCM210-70D1                  | 107                | 1 090    | 1 030    | 700                   | 980                         | 165                   | 210                   | 51.6     | 19       | M18          | 6 460                                  | UC210D1           | 35 000                                | 23 200                           | 30                |
|               | UCM210-80D1                  | 107                | 1 190    | 1 130    | 800                   | 1 080                       | 165                   | 210                   | 51.6     | 19       | M18          | 6 460                                  | UC210D1           | 35 000                                | 23 200                           | 32                |
|               | UCM210-90D1                  | 107                | 1 290    | 1 230    | 900                   | 1 180                       | 165                   | 210                   | 51.6     | 19       | M18          | 6 460                                  | UC210D1           | 35 000                                | 23 200                           | 33                |
| 55            | UCM211-50D1                  | 115                | 910      | 850      | 500                   | 800                         | 175                   | 230                   | 55.6     | 22.2     | M18          | 6 460                                  | UC211D1           | 43 500                                | 29 200                           | 25                |
|               | UCM211-60D1                  | 115                | 1 010    | 950      | 600                   | 900                         | 175                   | 230                   | 55.6     | 22.2     | M18          | 6 460                                  | UC211D1           | 43 500                                | 29 200                           | 27                |
|               | UCM211-70D1                  | 115                | 1 110    | 1 050    | 700                   | 1 000                       | 175                   | 230                   | 55.6     | 22.2     | M18          | 6 460                                  | UC211D1           | 43 500                                | 29 200                           | 32                |
|               | UCM211-80D1                  | 115                | 1 210    | 1 150    | 800                   | 1 100                       | 175                   | 230                   | 55.6     | 22.2     | M18          | 6 460                                  | UC211D1           | 43 500                                | 29 200                           | 34                |
|               | UCM211-90D1                  | 115                | 1 310    | 1 250    | 900                   | 1 200                       | 175                   | 230                   | 55.6     | 22.2     | M18          | 6 460                                  | UC211D1           | 43 500                                | 29 200                           | 36                |
| 60            | UCM212-50D1                  | 120                | 920      | 860      | 500                   | 810                         | 180                   | 240                   | 65.1     | 25.4     | M18          | 6 460                                  | UC212D1           | 52 500                                | 36 000                           | 28                |
|               | UCM212-60D1                  | 120                | 1 020    | 960      | 600                   | 910                         | 180                   | 240                   | 65.1     | 25.4     | M18          | 6 460                                  | UC212D1           | 52 500                                | 36 000                           | 29                |
|               | UCM212-70D1                  | 120                | 1 120    | 1 060    | 700                   | 1 010                       | 180                   | 240                   | 65.1     | 25.4     | M18          | 6 460                                  | UC212D1           | 52 500                                | 36 000                           | 35                |
|               | UCM212-80D1                  | 120                | 1 220    | 1 160    | 800                   | 1 110                       | 180                   | 240                   | 65.1     | 25.4     | M18          | 6 460                                  | UC212D1           | 52 500                                | 36 000                           | 36                |
|               | UCM212-90D1                  | 120                | 1 320    | 1 260    | 900                   | 1 210                       | 180                   | 240                   | 65.1     | 25.4     | M18          | 6 460                                  | UC212D1           | 52 500                                | 36 000                           | 38                |
| 65            | UCM213-50D1                  | 125                | 940      | 880      | 500                   | 830                         | 190                   | 250                   | 65.1     | 25.4     | M18          | 6 460                                  | UC213D1           | 57 500                                | 40 000                           | 30                |
|               | UCM213-60D1                  | 125                | 1 040    | 980      | 600                   | 930                         | 190                   | 250                   | 65.1     | 25.4     | M18          | 6 460                                  | UC213D1           | 57 500                                | 40 000                           | 31                |
|               | UCM213-70D1                  | 125                | 1 140    | 1 080    | 700                   | 1 030                       | 190                   | 250                   | 65.1     | 25.4     | M18          | 6 460                                  | UC213D1           | 57 500                                | 40 000                           | 36                |
|               | UCM213-80D1                  | 125                | 1 240    | 1 180    | 800                   | 1 130                       | 190                   | 250                   | 65.1     | 25.4     | M18          | 6 460                                  | UC213D1           | 57 500                                | 40 000                           | 38                |
|               | UCM213-90D1                  | 125                | 1 340    | 1 280    | 900                   | 1 230                       | 190                   | 250                   | 65.1     | 25.4     | M18          | 6 460                                  | UC213D1           | 57 500                                | 40 000                           | 40                |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

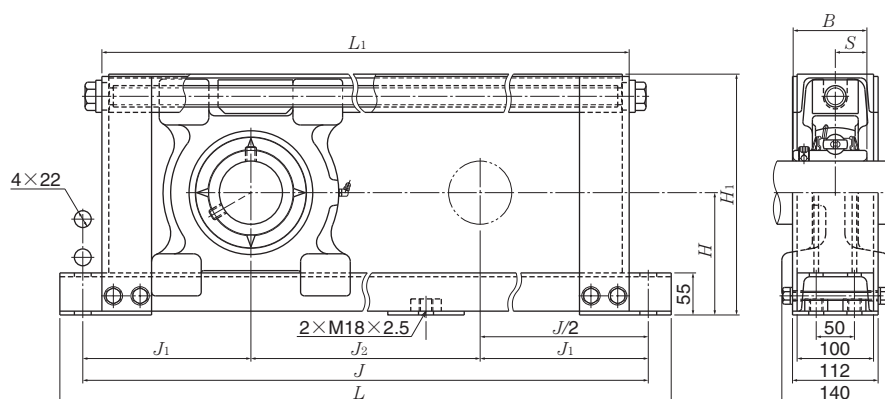
2) The Stretcher Unit is designed to only take a horizontal radial load, in line with the adjustment direction. Axial loads or vertical radial loads can deform or break the housing.

3) Installation of re-lubrication device to the grease fitting becomes difficult, when the housing moved to the right side.

Note: Please refer to page 36 for size of grease fitting.

## Type M stretcher units

### Set screw type



| Shaft<br>dia. | Unit <sup>1)</sup><br>number | Nominal dimensions |          |          |                             |                       |                       |                       |          |          |     | Bolt<br>size | Max. load <sup>2)</sup><br>recommended | Bearing<br>number                            | Basic<br>load ratings            |    | Mass<br>(approx.) |
|---------------|------------------------------|--------------------|----------|----------|-----------------------------|-----------------------|-----------------------|-----------------------|----------|----------|-----|--------------|----------------------------------------|----------------------------------------------|----------------------------------|----|-------------------|
| mm            |                              | <i>H</i>           | <i>L</i> | <i>J</i> | mm<br><i>J</i> <sub>2</sub> | <i>L</i> <sub>1</sub> | <i>J</i> <sub>1</sub> | <i>H</i> <sub>1</sub> | <i>B</i> | <i>S</i> |     | N            |                                        | <i>N</i><br>dynamic<br><i>C</i> <sub>r</sub> | static<br><i>C</i> <sub>or</sub> | kg |                   |
| 65            | UCM313-50D1                  | 145                | 940      | 880      | 500                         | 830                   | 190                   | 285                   | 75       | 30       | M18 | 16 260       | UC313D1                                | 92 500                                       | 60 000                           | 47 |                   |
|               | UCM313-60D1                  | 145                | 1 040    | 980      | 600                         | 930                   | 190                   | 285                   | 75       | 30       | M18 | 16 260       | UC313D1                                | 92 500                                       | 60 000                           | 50 |                   |
|               | UCM313-70D1                  | 145                | 1 140    | 1 080    | 700                         | 1 030                 | 190                   | 285                   | 75       | 30       | M18 | 16 260       | UC313D1                                | 92 500                                       | 60 000                           | 53 |                   |
|               | UCM313-80D1                  | 145                | 1 240    | 1 180    | 800                         | 1 130                 | 190                   | 285                   | 75       | 30       | M18 | 16 260       | UC313D1                                | 92 500                                       | 60 000                           | 55 |                   |
|               | UCM313-90D1                  | 145                | 1 340    | 1 280    | 900                         | 1 230                 | 190                   | 285                   | 75       | 30       | M18 | 16 260       | UC313D1                                | 92 500                                       | 60 000                           | 58 |                   |
| 70            | UCM314-50D1                  | 150                | 960      | 900      | 500                         | 850                   | 200                   | 295                   | 78       | 33       | M18 | 19 600       | UC314D1                                | 104 000                                      | 68 000                           | 49 |                   |
|               | UCM314-60D1                  | 150                | 1 060    | 1 000    | 600                         | 950                   | 200                   | 295                   | 78       | 33       | M18 | 19 600       | UC314D1                                | 104 000                                      | 68 000                           | 52 |                   |
|               | UCM314-70D1                  | 150                | 1 160    | 1 100    | 700                         | 1 050                 | 200                   | 295                   | 78       | 33       | M18 | 19 600       | UC314D1                                | 104 000                                      | 68 000                           | 55 |                   |
|               | UCM314-80D1                  | 150                | 1 260    | 1 200    | 800                         | 1 150                 | 200                   | 295                   | 78       | 33       | M18 | 19 600       | UC314D1                                | 104 000                                      | 68 000                           | 58 |                   |
|               | UCM314-90D1                  | 150                | 1 360    | 1 300    | 900                         | 1 250                 | 200                   | 295                   | 78       | 33       | M18 | 19 600       | UC314D1                                | 104 000                                      | 68 000                           | 61 |                   |
| 75            | UCM315-50D1                  | 155                | 980      | 920      | 500                         | 870                   | 210                   | 305                   | 82       | 32       | M18 | 19 600       | UC315D1                                | 113 000                                      | 77 000                           | 52 |                   |
|               | UCM315-60D1                  | 155                | 1 080    | 1 020    | 600                         | 970                   | 210                   | 305                   | 82       | 32       | M18 | 19 600       | UC315D1                                | 113 000                                      | 77 000                           | 55 |                   |
|               | UCM315-70D1                  | 155                | 1 180    | 1 120    | 700                         | 1 070                 | 210                   | 305                   | 82       | 32       | M18 | 19 600       | UC315D1                                | 113 000                                      | 77 000                           | 58 |                   |
|               | UCM315-80D1                  | 155                | 1 280    | 1 220    | 800                         | 1 170                 | 210                   | 305                   | 82       | 32       | M18 | 19 600       | UC315D1                                | 113 000                                      | 77 000                           | 60 |                   |
|               | UCM315-90D1                  | 155                | 1 380    | 1 320    | 900                         | 1 270                 | 210                   | 305                   | 82       | 32       | M18 | 19 600       | UC315D1                                | 113 000                                      | 77 000                           | 63 |                   |
| 80            | UCM316-50D1                  | 160                | 1 000    | 940      | 500                         | 890                   | 220                   | 315                   | 86       | 34       | M18 | 19 600       | UC316D1                                | 123 000                                      | 86 500                           | 54 |                   |
|               | UCM316-60D1                  | 160                | 1 100    | 1 040    | 600                         | 990                   | 220                   | 315                   | 86       | 34       | M18 | 19 600       | UC316D1                                | 123 000                                      | 86 500                           | 57 |                   |
|               | UCM316-70D1                  | 160                | 1 200    | 1 140    | 700                         | 1 090                 | 220                   | 315                   | 86       | 34       | M18 | 19 600       | UC316D1                                | 123 000                                      | 86 500                           | 60 |                   |
|               | UCM316-80D1                  | 160                | 1 300    | 1 240    | 800                         | 1 190                 | 220                   | 315                   | 86       | 34       | M18 | 19 600       | UC316D1                                | 123 000                                      | 86 500                           | 63 |                   |
|               | UCM316-90D1                  | 160                | 1 400    | 1 340    | 900                         | 1 290                 | 220                   | 315                   | 86       | 34       | M18 | 19 600       | UC316D1                                | 123 000                                      | 86 500                           | 66 |                   |
| 85            | UCM317-50D1                  | 165                | 1 020    | 960      | 500                         | 910                   | 230                   | 325                   | 96       | 40       | M18 | 19 600       | UC317D1                                | 133 000                                      | 97 000                           | 60 |                   |
|               | UCM317-60D1                  | 165                | 1 120    | 1 060    | 600                         | 1 010                 | 230                   | 325                   | 96       | 40       | M18 | 19 600       | UC317D1                                | 133 000                                      | 97 000                           | 63 |                   |
|               | UCM317-70D1                  | 165                | 1 220    | 1 160    | 700                         | 1 110                 | 230                   | 325                   | 96       | 40       | M18 | 19 600       | UC317D1                                | 133 000                                      | 97 000                           | 65 |                   |
|               | UCM317-80D1                  | 165                | 1 320    | 1 260    | 800                         | 1 210                 | 230                   | 325                   | 96       | 40       | M18 | 19 600       | UC317D1                                | 133 000                                      | 97 000                           | 68 |                   |
|               | UCM317-90D1                  | 165                | 1 420    | 1 360    | 900                         | 1 310                 | 230                   | 325                   | 96       | 40       | M18 | 19 600       | UC317D1                                | 133 000                                      | 97 000                           | 71 |                   |
| 90            | UCM318-50D1                  | 170                | 1 050    | 990      | 500                         | 940                   | 245                   | 335                   | 96       | 40       | M18 | 19 600       | UC318D1                                | 143 000                                      | 107 000                          | 65 |                   |
|               | UCM318-60D1                  | 170                | 1 150    | 1 090    | 600                         | 1 040                 | 245                   | 335                   | 96       | 40       | M18 | 19 600       | UC318D1                                | 143 000                                      | 107 000                          | 68 |                   |
|               | UCM318-70D1                  | 170                | 1 250    | 1 190    | 700                         | 1 140                 | 245                   | 335                   | 96       | 40       | M18 | 19 600       | UC318D1                                | 143 000                                      | 107 000                          | 71 |                   |
|               | UCM318-80D1                  | 170                | 1 350    | 1 290    | 800                         | 1 240                 | 245                   | 335                   | 96       | 40       | M18 | 19 600       | UC318D1                                | 143 000                                      | 107 000                          | 74 |                   |
|               | UCM318-90D1                  | 170                | 1 450    | 1 390    | 900                         | 1 340                 | 245                   | 335                   | 96       | 40       | M18 | 19 600       | UC318D1                                | 143 000                                      | 107 000                          | 77 |                   |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

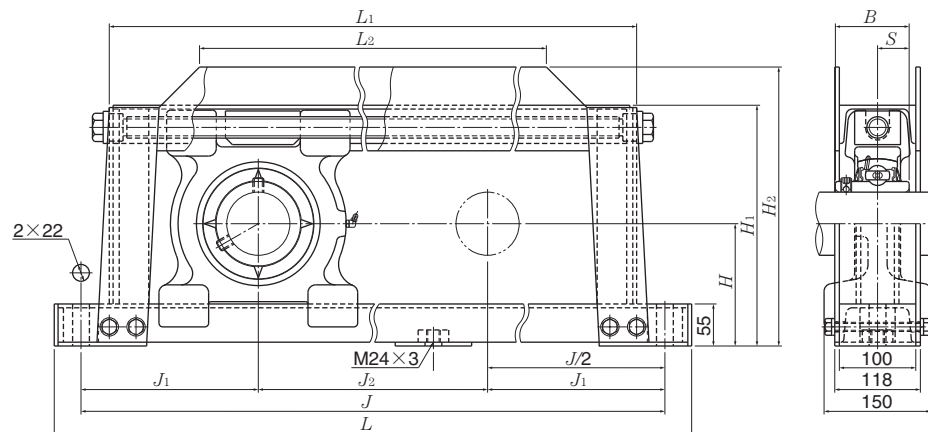
2) The Stretcher Unit is designed to only take a horizontal radial load, in line with the adjustment direction. Axial loads or vertical radial loads can deform or break the housing.

3) Installation of re-lubrication device to the grease fitting becomes difficult, when the housing moved to the right side.

Note: Please refer to page 36 for size of grease fitting.

## Type M stretcher units

### Set screw type



| Shaft dia. | Unit <sup>1)</sup><br>number | Nominal dimensions |       |       |                |                |                |                |                |                |     |    |     | Bolt size | Max. load <sup>2)</sup><br>recommended | Bearing number            | Basic load ratings        |     | Mass (approx.) |
|------------|------------------------------|--------------------|-------|-------|----------------|----------------|----------------|----------------|----------------|----------------|-----|----|-----|-----------|----------------------------------------|---------------------------|---------------------------|-----|----------------|
| mm         |                              | mm                 |       |       |                |                |                |                |                |                |     |    |     |           | N                                      |                           | N                         |     | kg             |
|            |                              | H                  | L     | J     | J <sub>2</sub> | L <sub>1</sub> | L <sub>2</sub> | J <sub>1</sub> | H <sub>1</sub> | H <sub>2</sub> | B   | S  |     |           |                                        | dynamic<br>C <sub>r</sub> | static<br>C <sub>or</sub> |     |                |
| 95         | UCM319-50D1                  | 185                | 1 180 | 1 100 | 500            | 1 021          | 772            | 300            | 377            | 400            | 103 | 41 | M24 | 19 600    | UC319D1                                | 153 000                   | 119 000                   | 105 |                |
|            | UCM319-60D1                  | 185                | 1 280 | 1 200 | 600            | 1 121          | 872            | 300            | 377            | 400            | 103 | 41 | M24 | 19 600    | UC319D1                                | 153 000                   | 119 000                   | 109 |                |
|            | UCM319-70D1                  | 185                | 1 380 | 1 300 | 700            | 1 221          | 972            | 300            | 377            | 400            | 103 | 41 | M24 | 19 600    | UC319D1                                | 153 000                   | 119 000                   | 112 |                |
|            | UCM319-80D1                  | 185                | 1 480 | 1 400 | 800            | 1 321          | 1 072          | 300            | 377            | 400            | 103 | 41 | M24 | 19 600    | UC319D1                                | 153 000                   | 119 000                   | 116 |                |
|            | UCM319-90D1                  | 185                | 1 580 | 1 500 | 900            | 1 421          | 1 172          | 300            | 377            | 400            | 103 | 41 | M24 | 19 600    | UC319D1                                | 153 000                   | 119 000                   | 120 |                |
| 100        | UCM320-50D1                  | 200                | 1 220 | 1 140 | 500            | 1 063          | 801            | 320            | 403            | 430            | 108 | 42 | M24 | 19 600    | UC320D1                                | 173 000                   | 141 000                   | 111 |                |
|            | UCM320-60D1                  | 200                | 1 320 | 1 240 | 600            | 1 163          | 901            | 320            | 403            | 430            | 108 | 42 | M24 | 19 600    | UC320D1                                | 173 000                   | 141 000                   | 116 |                |
|            | UCM320-70D1                  | 200                | 1 420 | 1 340 | 700            | 1 263          | 1 001          | 320            | 403            | 430            | 108 | 42 | M24 | 19 600    | UC320D1                                | 173 000                   | 141 000                   | 120 |                |
|            | UCM320-80D1                  | 200                | 1 520 | 1 440 | 800            | 1 363          | 1 101          | 320            | 403            | 430            | 108 | 42 | M24 | 19 600    | UC320D1                                | 173 000                   | 141 000                   | 124 |                |
|            | UCM320-90D1                  | 200                | 1 620 | 1 540 | 900            | 1 463          | 1 201          | 320            | 403            | 430            | 108 | 42 | M24 | 19 600    | UC320D1                                | 173 000                   | 141 000                   | 129 |                |

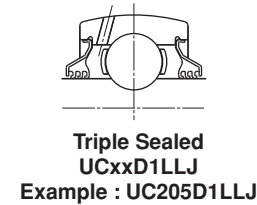
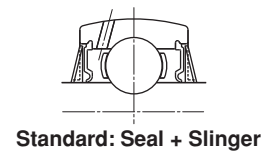
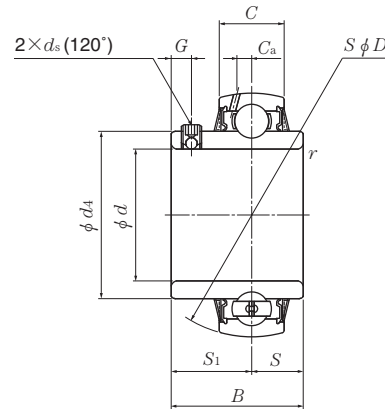
Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

2) The Stretcher Unit is designed to only take a horizontal radial load, in line with the adjustment direction. Axial loads or vertical radial loads can deform or break the housing.

3) Installation of re-lubrication device to the grease fitting becomes difficult, when the housing moved to the right side.

Note: Please refer to page 36 for size of grease fitting.

# Ball bearings Set screw type



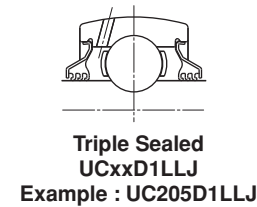
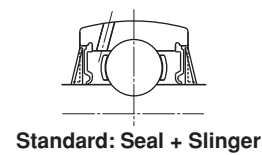
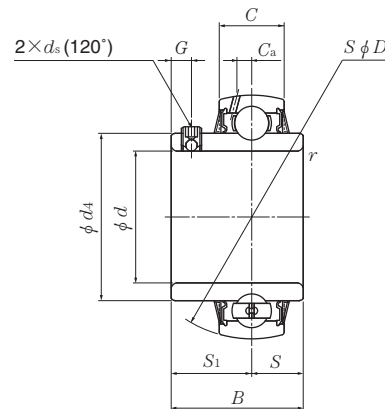
| Shaft<br>dia.                            | Bearing number                                                      | Nominal dimensions                         |              |                |              |                  |               |               |              |                         |                |              |
|------------------------------------------|---------------------------------------------------------------------|--------------------------------------------|--------------|----------------|--------------|------------------|---------------|---------------|--------------|-------------------------|----------------|--------------|
|                                          |                                                                     | d                                          | D            | B              | C            | mm<br>rs<br>min. | mm<br>S       | inch<br>S1    | G            | ds                      | d4             | Ca           |
| 12<br>1/2                                | UC201D1<br>UC201-008D1                                              | 12<br>0.5000                               | 47<br>1.8504 | 31<br>1.2205   | 17<br>0.6693 | 0.6<br>0.024     | 12.7<br>0.500 | 18.3<br>0.720 | 4.5<br>0.177 | M5 × 0.8<br>No.10-32UNF | 29.6<br>1.1654 | 3.8<br>0.150 |
| 15<br>9/16<br>5/8                        | UC202D1<br>UC202-009D1<br>UC202-010D1                               | 15<br>0.5625<br>0.6250                     | 47<br>1.8504 | 31<br>1.2205   | 17<br>0.6693 | 0.6<br>0.024     | 12.7<br>0.500 | 18.3<br>0.720 | 4.5<br>0.177 | M5 × 0.8<br>No.10-32UNF | 29.6<br>1.1654 | 3.8<br>0.150 |
| 17<br>1 1/16                             | UC203D1<br>UC203-011D1                                              | 17<br>0.6875                               | 47<br>1.8504 | 31<br>1.2205   | 17<br>0.6693 | 0.6<br>0.024     | 12.7<br>0.500 | 18.3<br>0.720 | 4.5<br>0.177 | M5 × 0.8<br>No.10-32UNF | 29.6<br>1.1654 | 3.8<br>0.150 |
| 20<br>3/4                                | UC204D1<br>UC204-012D1                                              | 20<br>0.7500                               | 47<br>1.8504 | 31<br>1.2205   | 17<br>0.6693 | 1<br>0.039       | 12.7<br>0.500 | 18.3<br>0.720 | 4.5<br>0.177 | M5 × 0.8<br>No.10-32UNF | 29.6<br>1.1654 | 3.8<br>0.185 |
| 25<br>1 3/16<br>7/8<br>1 5/16<br>1       | UC205D1<br>UC205-013D1<br>UC205-014D1<br>UC205-015D1<br>UC205-100D1 | 25<br>0.8125<br>0.8750<br>0.9375<br>1.0000 | 52<br>2.0472 | 34.1<br>1.3425 | 17<br>0.6693 | 1<br>0.039       | 14.3<br>0.563 | 19.8<br>0.780 | 5<br>0.197   | M5 × 0.8<br>No.10-32UNF | 33.9<br>1.3346 | 4<br>0.157   |
| 30<br>1 1/16<br>1 1/8<br>1 3/16<br>1 1/4 | UC206D1<br>UC206-101D1<br>UC206-102D1<br>UC206-103D1<br>UC206-104D1 | 30<br>1.0625<br>1.1250<br>1.1875<br>1.2500 | 62<br>2.4409 | 38.1<br>1.5000 | 19<br>0.7480 | 1<br>0.039       | 15.9<br>0.626 | 22.2<br>0.874 | 5<br>0.197   | M6 × 0.75<br>1/4-28UNF  | 40.8<br>1.6063 | 4.9<br>0.193 |
| 35<br>1 1/4<br>1 5/16<br>1 3/8<br>1 7/16 | UC207D1<br>UC207-104D1<br>UC207-105D1<br>UC207-106D1<br>UC207-107D1 | 35<br>1.2500<br>1.3125<br>1.3750<br>1.4375 | 72<br>2.8346 | 42.9<br>1.6890 | 20<br>0.7874 | 1.5<br>0.059     | 17.5<br>0.689 | 25.4<br>1.000 | 6<br>0.236   | M6 × 0.75<br>1/4-28UNF  | 46.8<br>1.8425 | 5.4<br>0.213 |
| 40<br>1 1/2<br>1 9/16                    | UC208D1<br>UC208-108D1<br>UC208-109D1                               | 40<br>1.5000<br>1.5625                     | 80<br>3.1496 | 49.2<br>1.9370 | 21<br>0.8268 | 1.5<br>0.059     | 19<br>0.748   | 30.2<br>1.189 | 8<br>0.315   | M8 × 1<br>5/16-24UNF    | 53<br>2.0866   | 6<br>0.236   |
| 45<br>1 5/8<br>1 11/16<br>1 3/4          | UC209D1<br>UC209-110D1<br>UC209-111D1<br>UC209-112D1                | 45<br>1.6250<br>1.6875<br>1.7500           | 85<br>3.3465 | 49.2<br>1.9370 | 22<br>0.8661 | 1.5<br>0.059     | 19<br>0.748   | 30.2<br>1.189 | 8<br>0.315   | M8 × 1<br>5/16-24UNF    | 57.5<br>2.2638 | 6.1<br>0.240 |

Remarks: 1) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

| Basic load ratings |                 | Factor <sup>1)</sup> | Mass<br>(approx.)                    |
|--------------------|-----------------|----------------------|--------------------------------------|
| $C_r$              | $C_{or}$        | $f_0$                | kg lb                                |
| 12 800<br>2 890    | 6 650<br>1 500  | 13.2                 | 0.21<br>0.46                         |
| 12 800<br>2 890    | 6 650<br>1 500  | 13.2                 | 0.20<br>0.44<br>0.42                 |
| 12 800<br>2 890    | 6 650<br>1 500  | 13.2                 | 0.18<br>0.39                         |
| 12 800<br>2 890    | 6 650<br>1 500  | 13.2                 | 0.17<br>0.39                         |
| 14 000<br>3 150    | 7 850<br>1 770  | 13.9                 | 0.20<br>0.53<br>0.51<br>0.46<br>0.44 |
| 19 500<br>4 400    | 11 300<br>2 540 | 13.8                 | 0.32<br>0.82<br>0.77<br>0.73<br>0.66 |
| 25 700<br>5 750    | 15 300<br>3 450 | 13.8                 | 0.46<br>1.21<br>1.15<br>1.08<br>1.01 |
| 29 100<br>6 550    | 17 800<br>4 000 | 14.0                 | 0.64<br>1.52<br>1.46                 |
| 32 500<br>7 350    | 20 400<br>4 600 | 14.1                 | 0.68<br>1.76<br>1.68<br>1.57         |

# Ball bearings

## Set screw type



| Shaft<br>dia.  | Bearing number     | Nominal dimensions |            |             |           |                                    |             |                      |           |                   |                      |                      |
|----------------|--------------------|--------------------|------------|-------------|-----------|------------------------------------|-------------|----------------------|-----------|-------------------|----------------------|----------------------|
|                |                    | <i>d</i>           | <i>D</i>   | <i>B</i>    | <i>C</i>  | <i>r<sub>s</sub></i><br>mm<br>min. | <i>S</i>    | <i>S<sub>1</sub></i> | <i>G</i>  | <i>ds</i>         | <i>d<sub>4</sub></i> | <i>C<sub>a</sub></i> |
| <b>50</b>      | <b>UC210D1</b>     | <b>50</b>          | <b>90</b>  | <b>51.6</b> | <b>24</b> | <b>1.5</b>                         | <b>19</b>   | <b>32.6</b>          | <b>9</b>  | <b>M8 × 1</b>     | <b>62.4</b>          | <b>6.1</b>           |
| <b>1 13/16</b> | <b>UC210-113D1</b> | 1.8125             |            |             |           |                                    |             |                      |           |                   |                      |                      |
| <b>1 7/8</b>   | <b>UC210-114D1</b> | 1.8750             | 3.5433     | 2.0315      | 0.9449    | 0.059                              | 0.748       | 1.283                | 0.354     | 5/16-24UNF        | 2.4567               | 0.240                |
| <b>1 15/16</b> | <b>UC210-115D1</b> | 1.9375             |            |             |           |                                    |             |                      |           |                   |                      |                      |
| <b>2</b>       | <b>UC210-200D1</b> | 2.0000             |            |             |           |                                    |             |                      |           |                   |                      |                      |
| <b>55</b>      | <b>UC211D1</b>     | <b>55</b>          | <b>100</b> | <b>55.6</b> | <b>25</b> | <b>2</b>                           | <b>22.2</b> | <b>33.4</b>          | <b>9</b>  | <b>M8 × 1</b>     | <b>69</b>            | <b>6.5</b>           |
| <b>2</b>       | <b>UC211-200D1</b> | 2.0000             |            |             |           |                                    |             |                      |           |                   |                      |                      |
| <b>2 1/16</b>  | <b>UC211-201D1</b> | 2.0625             | 3.9370     | 2.1890      | 0.9843    | 0.079                              | 0.874       | 1.315                | 0.354     | 5/16-24UNF        | 2.7165               | 0.256                |
| <b>2 1/8</b>   | <b>UC211-202D1</b> | 2.1250             |            |             |           |                                    |             |                      |           |                   |                      |                      |
| <b>2 3/16</b>  | <b>UC211-203D1</b> | 2.1875             |            |             |           |                                    |             |                      |           |                   |                      |                      |
| <b>60</b>      | <b>UC212D1</b>     | <b>60</b>          | <b>110</b> | <b>65.1</b> | <b>27</b> | <b>2</b>                           | <b>25.4</b> | <b>39.7</b>          | <b>10</b> | <b>M10 × 1.25</b> | <b>77</b>            | <b>7.3</b>           |
| <b>2 1/4</b>   | <b>UC212-204D1</b> | 2.2500             |            |             |           |                                    |             |                      |           |                   |                      |                      |
| <b>2 5/16</b>  | <b>UC212-205D1</b> | 2.3125             | 4.3307     | 2.5630      | 1.0630    | 0.079                              | 1.000       | 1.563                | 0.394     | 3/8-24UNF         | 3.0315               | 0.287                |
| <b>2 3/8</b>   | <b>UC212-206D1</b> | 2.3750             |            |             |           |                                    |             |                      |           |                   |                      |                      |
| <b>2 7/16</b>  | <b>UC212-207D1</b> | 2.4375             |            |             |           |                                    |             |                      |           |                   |                      |                      |
| <b>65</b>      | <b>UC213D1</b>     | <b>65</b>          | <b>120</b> | <b>65.1</b> | <b>32</b> | <b>2</b>                           | <b>25.4</b> | <b>39.7</b>          | <b>10</b> | <b>M10 × 1.25</b> | <b>82.5</b>          | <b>7.3</b>           |
| <b>2 1/2</b>   | <b>UC213-208D1</b> | 2.5000             | 4.7244     | 2.5630      | 1.2598    | 0.079                              | 1.000       | 1.563                | 0.394     | 3/8-24UNF         | 3.2480               | 0.287                |
| <b>2 9/16</b>  | <b>UC213-209D1</b> | 2.5625             |            |             |           |                                    |             |                      |           |                   |                      |                      |
| <b>70</b>      | <b>UC214D1</b>     | <b>70</b>          | <b>125</b> | <b>74.6</b> | <b>33</b> | <b>2</b>                           | <b>30.2</b> | <b>44.4</b>          | <b>12</b> | <b>M10 × 1.25</b> | <b>87</b>            | <b>7.7</b>           |
| <b>2 5/8</b>   | <b>UC214-210D1</b> | 2.6250             |            |             |           |                                    |             |                      |           |                   |                      |                      |
| <b>2 11/16</b> | <b>UC214-211D1</b> | 2.6875             | 4.9213     | 2.9370      | 1.2992    | 0.079                              | 1.189       | 1.748                | 0.472     | 3/8-24UNF         | 3.4252               | 0.303                |
| <b>2 3/4</b>   | <b>UC214-212D1</b> | 2.7500             |            |             |           |                                    |             |                      |           |                   |                      |                      |
| <b>75</b>      | <b>UC215D1</b>     | <b>75</b>          | <b>130</b> | <b>77.8</b> | <b>34</b> | <b>2</b>                           | <b>33.3</b> | <b>44.5</b>          | <b>12</b> | <b>M10 × 1.25</b> | <b>93</b>            | <b>8</b>             |
| <b>2 13/16</b> | <b>UC215-213D1</b> | 2.8125             |            |             |           |                                    |             |                      |           |                   |                      |                      |
| <b>2 7/8</b>   | <b>UC215-214D1</b> | 2.8750             | 5.1181     | 3.0630      | 1.3386    | 0.079                              | 1.311       | 1.752                | 0.472     | 3/8-24UNF         | 3.6614               | 0.315                |
| <b>2 15/16</b> | <b>UC215-215D1</b> | 2.9375             |            |             |           |                                    |             |                      |           |                   |                      |                      |
| <b>3</b>       | <b>UC215-300D1</b> | 3.0000             |            |             |           |                                    |             |                      |           |                   |                      |                      |
| <b>80</b>      | <b>UC216D1</b>     | <b>80</b>          | <b>140</b> | <b>82.6</b> | <b>35</b> | <b>2.5</b>                         | <b>33.3</b> | <b>49.3</b>          | <b>12</b> | <b>M10 × 1.25</b> | <b>98.1</b>          | <b>8</b>             |
| <b>3 1/16</b>  | <b>UC216-301D1</b> | 3.0625             |            |             |           |                                    |             |                      |           |                   |                      |                      |
| <b>3 1/8</b>   | <b>UC216-302D1</b> | 3.1250             | 5.5118     | 3.2520      | 1.3780    | 0.098                              | 1.311       | 1.941                | 0.472     | 3/8-24UNF         | 3.8622               | 0.315                |
| <b>3 3/16</b>  | <b>UC216-303D1</b> | 3.1875             |            |             |           |                                    |             |                      |           |                   |                      |                      |

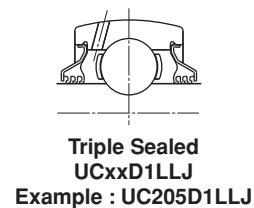
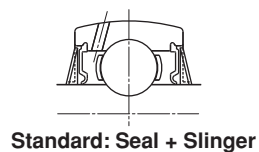
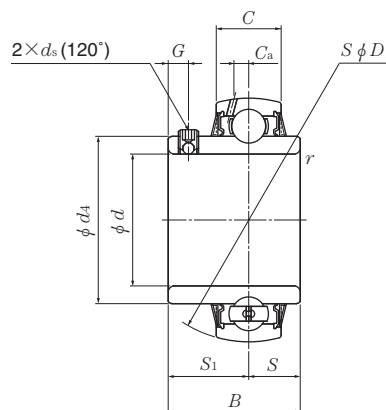
Remarks: 1) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

| Basic load ratings |          | Factor <sup>1)</sup> | Mass<br>(approx.) |
|--------------------|----------|----------------------|-------------------|
| $C_r$              | $C_{or}$ | $f_0$                | kg lb             |
| 35 000             | 23 200   | 14.4                 | 0.78              |
|                    |          |                      | 2.03              |
| 7 900              | 5 200    |                      | 1.92              |
|                    |          |                      | 1.81              |
|                    |          |                      | 1.69              |
| 43 500             | 29 200   | 14.3                 | 1.04              |
|                    |          |                      | 2.71              |
| 9 750              | 6 550    |                      | 2.60              |
|                    |          |                      | 2.46              |
|                    |          |                      | 2.34              |
| 52 500             | 36 000   | 14.3                 | 1.46              |
|                    |          |                      | 3.66              |
| 11 800             | 8 150    |                      | 3.50              |
|                    |          |                      | 3.33              |
|                    |          |                      | 3.17              |
| 57 500             | 40 000   | 14.4                 | 1.86              |
| 12 900             | 9 000    |                      | 4.26              |
|                    |          |                      | 4.09              |
| 62 000             | 44 000   | 14.5                 | 2.10              |
|                    |          |                      | 5.09              |
| 14 000             | 9 900    |                      | 4.87              |
|                    |          |                      | 4.65              |
| 66 000             | 49 500   | 14.7                 | 2.34              |
|                    |          |                      | 5.73              |
| 14 900             | 11 100   |                      | 5.49              |
|                    |          |                      | 5.25              |
|                    |          |                      | 4.98              |
| 72 500             | 53 000   | 14.6                 | 2.78              |
|                    |          |                      | 6.57              |
| 16 300             | 11 900   |                      | 6.28              |
|                    |          |                      | 6.00              |



# Ball bearings

## Set screw type

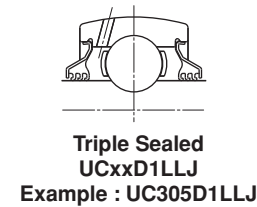
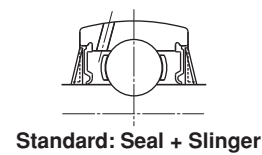
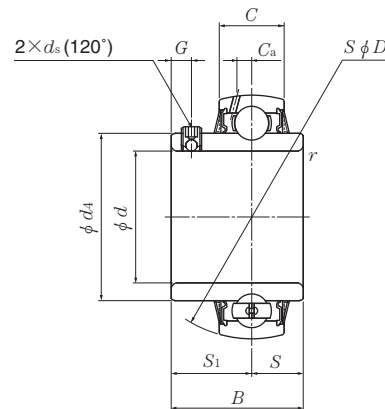


| Shaft<br>dia. | Bearing number     | Nominal dimensions |            |             |           |                                     |                |                  |           |                  |                       |                       |
|---------------|--------------------|--------------------|------------|-------------|-----------|-------------------------------------|----------------|------------------|-----------|------------------|-----------------------|-----------------------|
|               |                    | <i>d</i>           | <i>D</i>   | <i>B</i>    | <i>C</i>  | <i>r</i> <sub>s</sub><br>mm<br>min. | <i>S</i><br>mm | <i>S</i><br>inch | <i>G</i>  | <i>ds</i>        | <i>d</i> <sub>4</sub> | <i>C</i> <sub>a</sub> |
| <b>85</b>     | <b>UC217D1</b>     | <b>85</b>          | <b>150</b> | <b>85.7</b> | <b>36</b> | <b>2.5</b>                          | <b>34.1</b>    | <b>51.6</b>      | <b>12</b> | <b>M12 × 1.5</b> | <b>106.4</b>          | <b>7.9</b>            |
| <b>3 1/4</b>  | <b>UC217-304D1</b> | 3.2500             |            |             |           |                                     |                |                  |           |                  |                       |                       |
| <b>3 5/16</b> | <b>UC217-305D1</b> | 3.3125             | 5.9055     | 3.3740      | 1.4173    | 0.098                               | 1.343          | 2.031            | 0.472     | 1/2-20UNF        | 4.1890                | 0.311                 |
| <b>3 7/16</b> | <b>UC217-307D1</b> | 3.4375             |            |             |           |                                     |                |                  |           |                  |                       |                       |
| <b>90</b>     | <b>UC218D1</b>     | <b>90</b>          | <b>160</b> | <b>96</b>   | <b>37</b> | <b>2.5</b>                          | <b>39.7</b>    | <b>56.3</b>      | <b>12</b> | <b>M12 × 1.5</b> | <b>111.6</b>          | <b>8.7</b>            |
| <b>3 1/2</b>  | <b>UC218-308D1</b> | 3.5000             | 6.2992     | 3.7795      | 1.4570    | 0.098                               | 1.563          | 2.217            | 0.472     | 1/2-20UNF        | 4.3937                | 0.343                 |

Remarks: 1) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

| Basic load ratings                                              |                                                                     | Factor <sup>1)</sup> | Mass<br>(approx.)                                    |  |
|-----------------------------------------------------------------|---------------------------------------------------------------------|----------------------|------------------------------------------------------|--|
| $\begin{matrix} \text{N} \\ \text{dynamic} \\ C_r \end{matrix}$ | $\begin{matrix} \text{lbf} \\ \text{static} \\ C_{or} \end{matrix}$ | $f_0$                | $\begin{matrix} \text{kg} \\ \text{lb} \end{matrix}$ |  |
| 83 500                                                          | 64 000                                                              | 14.7                 | 3.54                                                 |  |
|                                                                 |                                                                     |                      | 7.92                                                 |  |
| 18 700                                                          | 14 300                                                              |                      | 7.60                                                 |  |
|                                                                 |                                                                     |                      | 6.97                                                 |  |
| 96 000                                                          | 71 500                                                              | 14.5                 | 4.40                                                 |  |
| 21 600                                                          | 16 100                                                              |                      | 9.88                                                 |  |

# Ball bearings Set screw type



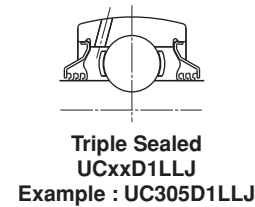
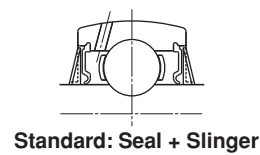
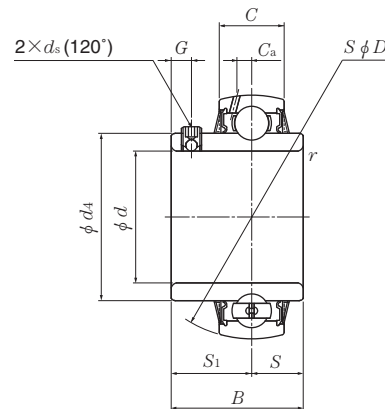
| Shaft<br>dia.   | Bearing number     | Nominal dimensions |            |           |           |                                     |           |                       |           |                       |                       |                       |
|-----------------|--------------------|--------------------|------------|-----------|-----------|-------------------------------------|-----------|-----------------------|-----------|-----------------------|-----------------------|-----------------------|
|                 |                    | <i>d</i>           | <i>D</i>   | <i>B</i>  | <i>C</i>  | <i>r</i> <sub>s</sub><br>mm<br>min. | <i>S</i>  | <i>S</i> <sub>1</sub> | <i>G</i>  | <i>ds</i>             | <i>d</i> <sub>4</sub> | <i>C</i> <sub>a</sub> |
| <b>25</b>       | <b>UC305D1</b>     | <b>25</b>          | <b>62</b>  | <b>38</b> | <b>20</b> | <b>1.5</b>                          | <b>15</b> | <b>23</b>             | <b>6</b>  | <b>M6 × 0.75</b>      | <b>36.8</b>           | <b>5.0</b>            |
| $\frac{13}{16}$ | <b>UC305-013D1</b> | 0.8125             |            |           |           |                                     |           |                       |           |                       |                       |                       |
| $\frac{7}{8}$   | <b>UC305-014D1</b> | 0.8750             | 2.4409     | 1.4961    | 0.7874    | 0.059                               | 0.591     | 0.906                 | 0.236     | $\frac{1}{4}$ -28UNF  | 1.4488                | 0.197                 |
| $\frac{15}{16}$ | <b>UC305-015D1</b> | 0.9375             |            |           |           |                                     |           |                       |           |                       |                       |                       |
| <b>1</b>        | <b>UC305-100D1</b> | 1.0000             |            |           |           |                                     |           |                       |           |                       |                       |                       |
| <b>30</b>       | <b>UC306D1</b>     | <b>30</b>          | <b>72</b>  | <b>43</b> | <b>23</b> | <b>1.5</b>                          | <b>17</b> | <b>26</b>             | <b>6</b>  | <b>M6 × 0.75</b>      | <b>44.9</b>           | <b>5.6</b>            |
| $\frac{1}{16}$  | <b>UC306-101D1</b> | 1.0625             |            |           |           |                                     |           |                       |           |                       |                       |                       |
| $\frac{1}{8}$   | <b>UC306-102D1</b> | 1.1250             | 2.8346     | 1.6929    | 0.9055    | 0.059                               | 0.669     | 1.024                 | 0.236     | $\frac{1}{4}$ -28UNF  | 1.7677                | 0.220                 |
| $\frac{3}{16}$  | <b>UC306-103D1</b> | 1.1875             |            |           |           |                                     |           |                       |           |                       |                       |                       |
| <b>35</b>       | <b>UC307D1</b>     | <b>35</b>          | <b>80</b>  | <b>48</b> | <b>25</b> | <b>2</b>                            | <b>19</b> | <b>29</b>             | <b>8</b>  | <b>M8 × 1</b>         | <b>49.4</b>           | <b>5.7</b>            |
| $\frac{1}{4}$   | <b>UC307-104D1</b> | 1.2500             |            |           |           |                                     |           |                       |           |                       |                       |                       |
| $\frac{5}{16}$  | <b>UC307-105D1</b> | 1.3125             | 3.1496     | 1.8898    | 0.9843    | 0.079                               | 0.748     | 1.142                 | 0.315     | $\frac{5}{16}$ -24UNF | 1.9449                | 0.224                 |
| $\frac{3}{8}$   | <b>UC307-106D1</b> | 1.3750             |            |           |           |                                     |           |                       |           |                       |                       |                       |
| $\frac{7}{16}$  | <b>UC307-107D1</b> | 1.4375             |            |           |           |                                     |           |                       |           |                       |                       |                       |
| <b>40</b>       | <b>UC308D1</b>     | <b>40</b>          | <b>90</b>  | <b>52</b> | <b>27</b> | <b>2</b>                            | <b>19</b> | <b>33</b>             | <b>10</b> | <b>M10 × 1.25</b>     | <b>56</b>             | <b>6.1</b>            |
| $\frac{1}{2}$   | <b>UC308-108D1</b> | 1.5000             | 3.5433     | 2.0472    | 1.0630    | 0.079                               | 0.748     | 1.299                 | 0.394     | $\frac{3}{8}$ -24UNF  | 2.2047                | 0.240                 |
| $\frac{9}{16}$  | <b>UC308-109D1</b> | 1.5625             |            |           |           |                                     |           |                       |           |                       |                       |                       |
| <b>45</b>       | <b>UC309D1</b>     | <b>45</b>          | <b>100</b> | <b>57</b> | <b>29</b> | <b>2</b>                            | <b>22</b> | <b>35</b>             | <b>10</b> | <b>M10 × 1.25</b>     | <b>63.5</b>           | <b>7.1</b>            |
| $\frac{5}{8}$   | <b>UC309-110D1</b> | 1.6250             |            |           |           |                                     |           |                       |           |                       |                       |                       |
| $\frac{11}{16}$ | <b>UC309-111D1</b> | 1.6875             | 3.9370     | 2.2441    | 1.1417    | 0.079                               | 0.866     | 1.378                 | 0.394     | $\frac{3}{8}$ -24UNF  | 2.5000                | 0.280                 |
| $\frac{3}{4}$   | <b>UC309-112D1</b> | 1.7500             |            |           |           |                                     |           |                       |           |                       |                       |                       |
| <b>50</b>       | <b>UC310D1</b>     | <b>50</b>          | <b>110</b> | <b>61</b> | <b>32</b> | <b>2.5</b>                          | <b>22</b> | <b>39</b>             | <b>12</b> | <b>M12 × 1.5</b>      | <b>70.6</b>           | <b>7.9</b>            |
| $\frac{13}{16}$ | <b>UC310-113D1</b> | 1.8125             |            |           |           |                                     |           |                       |           |                       |                       |                       |
| $\frac{1}{8}$   | <b>UC310-114D1</b> | 1.8750             | 4.3307     | 2.4016    | 1.2598    | 0.098                               | 0.866     | 1.535                 | 0.472     | $\frac{1}{2}$ -20UNF  | 2.7795                | 0.311                 |
| $\frac{15}{16}$ | <b>UC310-115D1</b> | 1.9375             |            |           |           |                                     |           |                       |           |                       |                       |                       |
| <b>55</b>       | <b>UC311D1</b>     | <b>55</b>          | <b>120</b> | <b>66</b> | <b>34</b> | <b>2.5</b>                          | <b>25</b> | <b>41</b>             | <b>12</b> | <b>M12 × 1.5</b>      | <b>76.6</b>           | <b>8.5</b>            |
| <b>2</b>        | <b>UC311-200D1</b> | 2.0000             |            |           |           |                                     |           |                       |           |                       |                       |                       |
| $\frac{1}{16}$  | <b>UC311-201D1</b> | 2.0625             | 4.7244     | 2.5984    | 1.3386    | 0.098                               | 0.984     | 1.614                 | 0.472     | $\frac{1}{2}$ -20UNF  | 3.0157                | 0.335                 |
| $\frac{1}{8}$   | <b>UC311-202D1</b> | 2.1250             |            |           |           |                                     |           |                       |           |                       |                       |                       |
| $\frac{3}{16}$  | <b>UC311-203D1</b> | 2.1875             |            |           |           |                                     |           |                       |           |                       |                       |                       |

Remarks: 1) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

| Basic load ratings |          | Factor <sup>1)</sup> | Mass<br>(approx.) |
|--------------------|----------|----------------------|-------------------|
| $C_r$              | $C_{or}$ | $f_0$                | kg lb             |
| 21 200             | 10 900   | 12.6                 | 0.35              |
|                    |          |                      | 0.88              |
| 4 750              | 2 460    |                      | 0.84              |
|                    |          |                      | 0.79              |
|                    |          |                      | 0.77              |
| 26 700             | 15 000   | 13.3                 | 0.56              |
|                    |          |                      | 1.34              |
| 6 000              | 3 400    |                      | 1.28              |
|                    |          |                      | 1.23              |
| 33 500             | 19 100   | 13.1                 | 0.70              |
|                    |          |                      | 1.70              |
| 7 500              | 4 300    |                      | 1.63              |
|                    |          |                      | 1.57              |
|                    |          |                      | 1.50              |
| 40 500             | 24 000   | 13.2                 | 0.96              |
|                    |          |                      | 2.23              |
| 9 150              | 5 400    |                      | 2.14              |
|                    |          |                      |                   |
| 53 000             | 32 000   | 13.1                 | 1.28              |
|                    |          |                      | 3.06              |
| 11 900             | 7 200    |                      | 2.98              |
|                    |          |                      | 2.87              |
| 62 000             | 38 500   | 13.2                 | 1.68              |
|                    |          |                      | 3.95              |
| 13 900             | 8 600    |                      | 3.84              |
|                    |          |                      | 3.70              |
| 71 500             | 45 000   | 13.2                 | 2.08              |
|                    |          |                      | 4.96              |
| 16 100             | 10 100   |                      | 4.81              |
|                    |          |                      | 4.67              |
|                    |          |                      | 4.50              |

# Ball bearings

## Set screw type



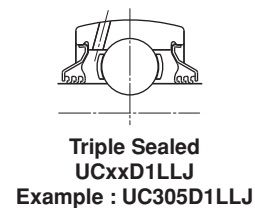
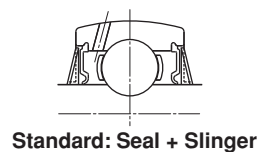
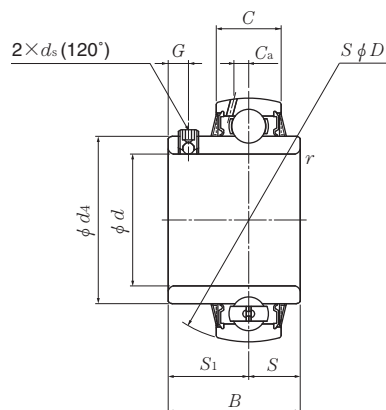
| Shaft<br>dia.  | Bearing number     | Nominal dimensions |            |           |           |                                    |           |                      |           |                  |                      |                      |
|----------------|--------------------|--------------------|------------|-----------|-----------|------------------------------------|-----------|----------------------|-----------|------------------|----------------------|----------------------|
|                |                    | <i>d</i>           | <i>D</i>   | <i>B</i>  | <i>C</i>  | <i>r<sub>s</sub></i><br>mm<br>min. | <i>S</i>  | <i>S<sub>1</sub></i> | <i>G</i>  | <i>ds</i>        | <i>d<sub>4</sub></i> | <i>C<sub>a</sub></i> |
| <b>60</b>      | <b>UC312D1</b>     | <b>60</b>          | <b>130</b> | <b>71</b> | <b>36</b> | <b>2.5</b>                         | <b>26</b> | <b>45</b>            | <b>12</b> | <b>M12 × 1.5</b> | <b>82.7</b>          | <b>9.0</b>           |
| <b>2 1/4</b>   | <b>UC312-204D1</b> | 2.2500             |            |           |           |                                    |           |                      |           |                  |                      |                      |
| <b>2 5/16</b>  | <b>UC312-205D1</b> | 2.3125             | 5.1181     | 2.7953    | 1.4173    | 0.098                              | 1.024     | 1.772                | 0.472     | 1/2-20UNF        | 3.2559               | 0.354                |
| <b>2 3/8</b>   | <b>UC312-206D1</b> | 2.3750             |            |           |           |                                    |           |                      |           |                  |                      |                      |
| <b>2 7/16</b>  | <b>UC312-207D1</b> | 2.4375             |            |           |           |                                    |           |                      |           |                  |                      |                      |
| <b>65</b>      | <b>UC313D1</b>     | <b>65</b>          | <b>140</b> | <b>75</b> | <b>39</b> | <b>2.5</b>                         | <b>30</b> | <b>45</b>            | <b>12</b> | <b>M12 × 1.5</b> | <b>88.2</b>          | <b>9.4</b>           |
| <b>2 1/2</b>   | <b>UC313-208D1</b> | 2.5000             | 5.5118     | 2.9528    | 1.5354    | 0.098                              | 1.181     | 1.772                | 0.472     | 1/2-20UNF        | 3.4724               | 0.370                |
| <b>2 5/8</b>   | <b>UC313-209D1</b> | 2.5625             |            |           |           |                                    |           |                      |           |                  |                      |                      |
| <b>70</b>      | <b>UC314D1</b>     | <b>70</b>          | <b>150</b> | <b>78</b> | <b>41</b> | <b>2.5</b>                         | <b>33</b> | <b>45</b>            | <b>12</b> | <b>M12 × 1.5</b> | <b>94.8</b>          | <b>10</b>            |
| <b>2 5/8</b>   | <b>UC314-210D1</b> | 2.6250             |            |           |           |                                    |           |                      |           |                  |                      |                      |
| <b>2 11/16</b> | <b>UC314-211D1</b> | 2.6875             | 5.9055     | 3.0709    | 1.6142    | 0.098                              | 1.299     | 1.772                | 0.472     | 1/2-20UNF        | 3.7323               | 0.394                |
| <b>2 3/4</b>   | <b>UC314-212D1</b> | 2.7500             |            |           |           |                                    |           |                      |           |                  |                      |                      |
| <b>75</b>      | <b>UC315D1</b>     | <b>75</b>          | <b>160</b> | <b>82</b> | <b>43</b> | <b>2.5</b>                         | <b>32</b> | <b>50</b>            | <b>14</b> | <b>M14 × 1.5</b> | <b>101.3</b>         | <b>10.5</b>          |
| <b>2 13/16</b> | <b>UC315-213D1</b> | 2.8125             |            |           |           |                                    |           |                      |           |                  |                      |                      |
| <b>2 7/8</b>   | <b>UC315-214D1</b> | 2.8750             | 6.2992     | 3.2283    | 1.6929    | 0.098                              | 1.260     | 1.969                | 0.551     | 9/16-18UNF       | 3.9882               | 0.413                |
| <b>2 15/16</b> | <b>UC315-215D1</b> | 2.9375             |            |           |           |                                    |           |                      |           |                  |                      |                      |
| <b>3</b>       | <b>UC315-300D1</b> | 3.0000             |            |           |           |                                    |           |                      |           |                  |                      |                      |
| <b>80</b>      | <b>UC316D1</b>     | <b>80</b>          | <b>170</b> | <b>86</b> | <b>45</b> | <b>2.5</b>                         | <b>34</b> | <b>52</b>            | <b>14</b> | <b>M14 × 1.5</b> | <b>107.9</b>         | <b>11.1</b>          |
| <b>3 1/16</b>  | <b>UC316-301D1</b> | 3.0625             |            |           |           |                                    |           |                      |           |                  |                      |                      |
| <b>3 1/8</b>   | <b>UC316-302D1</b> | 3.1250             | 6.6929     | 3.3858    | 1.7717    | 0.098                              | 1.339     | 2.047                | 0.551     | 9/16-18UNF       | 4.2480               | 0.437                |
| <b>3 3/16</b>  | <b>UC316-303D1</b> | 3.1875             |            |           |           |                                    |           |                      |           |                  |                      |                      |
| <b>85</b>      | <b>UC317D1</b>     | <b>85</b>          | <b>180</b> | <b>96</b> | <b>47</b> | <b>3</b>                           | <b>40</b> | <b>56</b>            | <b>16</b> | <b>M16 × 1.5</b> | <b>114.4</b>         | <b>11.5</b>          |
| <b>3 1/4</b>   | <b>UC317-304D1</b> | 3.2500             |            |           |           |                                    |           |                      |           |                  |                      |                      |
| <b>3 5/16</b>  | <b>UC317-305D1</b> | 3.3125             | 7.0866     | 3.7795    | 1.8504    | 0.118                              | 1.575     | 2.205                | 0.630     | 5/8-18UNF        | 4.5039               | 0.453                |
| <b>3 7/16</b>  | <b>UC317-307D1</b> | 3.4375             |            |           |           |                                    |           |                      |           |                  |                      |                      |
| <b>90</b>      | <b>UC318D1</b>     | <b>90</b>          | <b>190</b> | <b>96</b> | <b>49</b> | <b>3</b>                           | <b>40</b> | <b>56</b>            | <b>16</b> | <b>M16 × 1.5</b> | <b>120.9</b>         | <b>12.2</b>          |
| <b>3 7/16</b>  | <b>UC318-307D1</b> | 3.4375             | 7.4803     | 3.7795    | 1.9291    | 0.118                              | 1.575     | 2.205                | 0.630     | 5/8-18UNF        | 4.7598               | 0.480                |
| <b>3 1/2</b>   | <b>UC318-308D1</b> | 3.5000             |            |           |           |                                    |           |                      |           |                  |                      |                      |

Remarks: 1) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

| Basic load ratings    |                           | Factor <sup>1)</sup> | Mass<br>(approx.) |
|-----------------------|---------------------------|----------------------|-------------------|
| N<br>dynamic<br>$C_r$ | lbf<br>static<br>$C_{or}$ | $f_0$                | kg lb             |
| 82 000                | 52 000                    | 13.2                 | 2.60              |
|                       |                           |                      | 6.06              |
| 18 400                | 11 700                    |                      | 5.89              |
|                       |                           |                      | 5.68              |
|                       |                           |                      | 5.51              |
| 92 500                | 60 000                    | 13.2                 | 3.25              |
| 20 800                | 13 400                    |                      | 7.36              |
|                       |                           |                      | 7.14              |
| 104 000               | 68 000                    | 13.2                 | 3.86              |
|                       |                           |                      | 9.06              |
| 23 400                | 15 300                    |                      | 8.82              |
|                       |                           |                      | 8.60              |
| 113 000               | 77 000                    | 13.2                 | 4.70              |
|                       |                           |                      | 11.0              |
| 25 500                | 17 400                    |                      | 10.7              |
|                       |                           |                      | 10.5              |
|                       |                           |                      | 10.2              |
| 123 000               | 86 500                    | 13.3                 | 5.60              |
|                       |                           |                      | 12.6              |
| 27 600                | 19 500                    |                      | 12.3              |
|                       |                           |                      | 12.1              |
| 133 000               | 97 000                    | 13.3                 | 6.70              |
|                       |                           |                      | 15.2              |
| 29 800                | 21 800                    |                      | 14.9              |
|                       |                           |                      | 14.2              |
| 143 000               | 107 000                   | 13.3                 | 7.60              |
|                       |                           |                      | 17.3              |
| 32 000                | 24 100                    |                      | 16.9              |

# Ball bearings

## Set screw type



| Shaft<br>dia.                       | Bearing number     | Nominal dimensions |          |          |          |                                    |          |                       |          |           |                       |                       |
|-------------------------------------|--------------------|--------------------|----------|----------|----------|------------------------------------|----------|-----------------------|----------|-----------|-----------------------|-----------------------|
|                                     |                    | <i>d</i>           | <i>D</i> | <i>B</i> | <i>C</i> | <i>r<sub>s</sub></i><br>mm<br>min. | <i>S</i> | <i>S</i> <sub>1</sub> | <i>G</i> | <i>ds</i> | <i>d</i> <sub>4</sub> | <i>C</i> <sub>a</sub> |
| <b>95</b>                           | <b>UC319D1</b>     | 95                 | 200      | 103      | 51       | 3                                  | 41       | 62                    | 16       | M16 × 1.5 | 127.5                 | 12.7                  |
| <b>3<sup>5</sup>/<sub>8</sub></b>   | <b>UC319-310D1</b> | 3.6250             |          |          |          |                                    |          |                       |          |           |                       |                       |
| <b>3<sup>11</sup>/<sub>16</sub></b> | <b>UC319-311D1</b> | 3.6875             | 7.8740   | 4.0551   | 2.0079   | 0.118                              | 1.614    | 2.441                 | 0.630    | 5/8-18UNF | 5.0197                | 0.5                   |
| <b>3<sup>3</sup>/<sub>4</sub></b>   | <b>UC319-312D1</b> | 3.7500             |          |          |          |                                    |          |                       |          |           |                       |                       |
| <b>100</b>                          | <b>UC320D1</b>     | 100                | 215      | 108      | 55       | 3                                  | 42       | 66                    | 18       | M18 × 1.5 | 135.6                 | 14                    |
| <b>3<sup>13</sup>/<sub>16</sub></b> | <b>UC320-313D1</b> | 3.8125             |          |          |          |                                    |          |                       |          |           |                       |                       |
| <b>3<sup>7</sup>/<sub>8</sub></b>   | <b>UC320-314D1</b> | 3.8750             | 8.4646   | 4.2520   | 2.1654   | 0.118                              | 1.654    | 2.598                 | 0.709    | 5/8-18UNF | 5.3386                | 0.551                 |
| <b>3<sup>15</sup>/<sub>16</sub></b> | <b>UC320-315D1</b> | 3.9375             |          |          |          |                                    |          |                       |          |           |                       |                       |
| <b>4</b>                            | <b>UC320-400D1</b> | 4.0000             |          |          |          |                                    |          |                       |          |           |                       |                       |
| <b>105</b>                          | <b>UC321D1</b>     | 105                | 225      | 112      | 57       | 3                                  | 44       | 68                    | 18       | M18 × 1.5 | 142.1                 | 14.6                  |
| <b>110</b>                          | <b>UC322D1</b>     | 110                | 240      | 117      | 59       | 3                                  | 46       | 71                    | 18       | M18 × 1.5 | 151.7                 | 15.6                  |
| <b>120</b>                          | <b>UC324D1</b>     | 120                | 260      | 126      | 63       | 3                                  | 51       | 75                    | 18       | M18 × 1.5 | 165.2                 | 15.5                  |
| <b>130</b>                          | <b>UC326D1</b>     | 130                | 280      | 135      | 67       | 4                                  | 54       | 81                    | 20       | M20 × 1.5 | 178.3                 | 16.6                  |
| <b>140</b>                          | <b>UC328D1</b>     | 140                | 300      | 145      | 71       | 4                                  | 59       | 86                    | 20       | M20 × 1.5 | 190.4                 | 17.8                  |

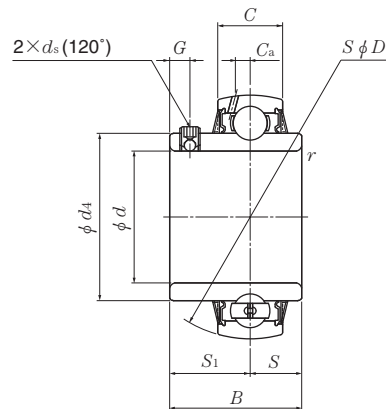
Remarks: 1) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

| Basic load ratings |          | Factor <sup>1)</sup> | Mass<br>(approx.) |
|--------------------|----------|----------------------|-------------------|
| $C_r$              | $C_{or}$ | $f_0$                | kg lb             |
| 153 000            | 119 000  | 13.3                 | 8.70              |
|                    |          |                      | 19.9              |
| 34 500             | 26 600   |                      | 19.5              |
|                    |          |                      | 19.1              |
| 173 000            | 141 000  | 13.2                 | 10.8              |
|                    |          |                      | 24.7              |
| 39 000             | 31 500   |                      | 24.2              |
|                    |          |                      | 23.8              |
|                    |          |                      | 23.4              |
| 184 000            | 153 000  | 13.2                 | 12.2              |
| 205 000            | 179 000  | 13.1                 | 14.3              |
| 207 000            | 185 000  | 13.5                 | 18.5              |
| 229 000            | 214 000  | 13.6                 | 23.0              |
| 253 000            | 246 000  | 13.6                 | 28.5              |



# Ball bearings

## Set screw type



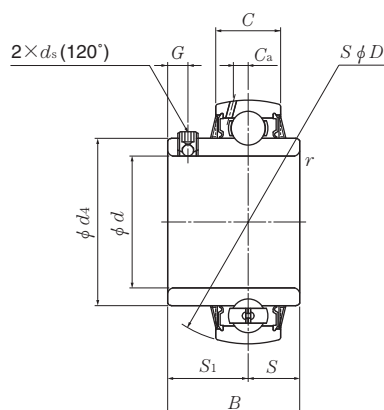
| Shaft<br>dia.   | Bearing number     | Nominal dimensions |            |             |           |                                    |                |                              |           |                       |                      |                      |
|-----------------|--------------------|--------------------|------------|-------------|-----------|------------------------------------|----------------|------------------------------|-----------|-----------------------|----------------------|----------------------|
|                 |                    | <i>d</i>           | <i>D</i>   | <i>B</i>    | <i>C</i>  | <i>r<sub>s</sub></i><br>mm<br>min. | <i>S</i><br>mm | <i>S<sub>1</sub></i><br>inch | <i>G</i>  | <i>ds</i>             | <i>d<sub>4</sub></i> | <i>C<sub>a</sub></i> |
| <b>25</b>       | <b>UCX05D1</b>     | <b>25</b>          | <b>62</b>  | <b>38.1</b> | <b>19</b> | <b>1</b>                           | <b>15.9</b>    | <b>22.2</b>                  | <b>5</b>  | <b>M6 × 0.75</b>      | <b>40.8</b>          | <b>4.9</b>           |
| $\frac{13}{16}$ | <b>UCX05-013D1</b> | 0.8125             |            |             |           |                                    |                |                              |           |                       |                      |                      |
| $\frac{7}{8}$   | <b>UCX05-014D1</b> | 0.8750             | 2.4409     | 1.5000      | 0.7480    | 0.039                              | 0.626          | 0.874                        | 0.197     | $\frac{1}{4}$ -28UNF  | 1.6063               | 0.193                |
| $\frac{15}{16}$ | <b>UCX05-015D1</b> | 0.9375             |            |             |           |                                    |                |                              |           |                       |                      |                      |
| <b>1</b>        | <b>UCX05-100D1</b> | 1.0000             |            |             |           |                                    |                |                              |           |                       |                      |                      |
| <b>30</b>       | <b>UCX06D1</b>     | <b>30</b>          | <b>72</b>  | <b>42.9</b> | <b>20</b> | <b>1</b>                           | <b>17.5</b>    | <b>25.4</b>                  | <b>6</b>  | <b>M8 × 1</b>         | <b>46.8</b>          | <b>5.4</b>           |
| $\frac{1}{16}$  | <b>UCX06-101D1</b> | 1.0625             |            |             |           |                                    |                |                              |           |                       |                      |                      |
| $\frac{1}{8}$   | <b>UCX06-102D1</b> | 1.1250             | 2.8346     | 1.6890      | 0.7874    | 0.039                              | 0.689          | 1.000                        | 0.236     | $\frac{5}{16}$ -24UNF | 1.8425               | 0.213                |
| $\frac{3}{16}$  | <b>UCX06-103D1</b> | 1.1875             |            |             |           |                                    |                |                              |           |                       |                      |                      |
| <b>35</b>       | <b>UCX07D1</b>     | <b>35</b>          | <b>80</b>  | <b>49.2</b> | <b>21</b> | <b>1.5</b>                         | <b>19</b>      | <b>30.2</b>                  | <b>8</b>  | <b>M8 × 1</b>         | <b>53</b>            | <b>6</b>             |
| $\frac{5}{16}$  | <b>UCX07-105D1</b> | 1.3125             |            |             |           |                                    |                |                              |           |                       |                      |                      |
| $\frac{3}{8}$   | <b>UCX07-106D1</b> | 1.3750             | 3.1496     | 1.9370      | 0.8268    | 0.059                              | 0.748          | 1.189                        | 0.315     | $\frac{5}{16}$ -24UNF | 2.0866               | 0.236                |
| $\frac{1}{2}$   | <b>UCX07-107D1</b> | 1.4375             |            |             |           |                                    |                |                              |           |                       |                      |                      |
| <b>40</b>       | <b>UCX08D1</b>     | <b>40</b>          | <b>85</b>  | <b>49.2</b> | <b>22</b> | <b>1.5</b>                         | <b>19</b>      | <b>30.2</b>                  | <b>8</b>  | <b>M8 × 1</b>         | <b>57.5</b>          | <b>6.1</b>           |
| $\frac{1}{2}$   | <b>UCX08-108D1</b> | 1.5000             | 3.3465     | 1.9370      | 0.8661    | 0.059                              | 0.748          | 1.189                        | 0.315     | $\frac{5}{16}$ -24UNF | 2.2638               | 0.240                |
| $\frac{9}{16}$  | <b>UCX08-109D1</b> | 1.5625             |            |             |           |                                    |                |                              |           |                       |                      |                      |
| <b>45</b>       | <b>UCX09D1</b>     | <b>45</b>          | <b>90</b>  | <b>51.6</b> | <b>24</b> | <b>1.5</b>                         | <b>19</b>      | <b>32.6</b>                  | <b>9</b>  | <b>M10 × 1.25</b>     | <b>62.4</b>          | <b>6.1</b>           |
| $\frac{5}{8}$   | <b>UCX09-110D1</b> | 1.6250             |            |             |           |                                    |                |                              |           |                       |                      |                      |
| $\frac{11}{16}$ | <b>UCX09-111D1</b> | 1.6875             | 3.5433     | 2.0315      | 0.9449    | 0.059                              | 0.748          | 1.283                        | 0.354     | $\frac{3}{8}$ -24UNF  | 2.4567               | 0.240                |
| $\frac{3}{4}$   | <b>UCX09-112D1</b> | 1.7500             |            |             |           |                                    |                |                              |           |                       |                      |                      |
| <b>50</b>       | <b>UCX10D1</b>     | <b>50</b>          | <b>100</b> | <b>55.6</b> | <b>25</b> | <b>1.5</b>                         | <b>22.2</b>    | <b>33.4</b>                  | <b>9</b>  | <b>M10 × 1.25</b>     | <b>69</b>            | <b>6.5</b>           |
| $\frac{7}{8}$   | <b>UCX10-114D1</b> | 1.8750             | 3.9370     | 2.1890      | 0.9843    | 0.059                              | 0.874          | 1.315                        | 0.354     | $\frac{3}{8}$ -24UNF  | 2.7165               | 0.256                |
| $\frac{15}{16}$ | <b>UCX10-115D1</b> | 1.9375             |            |             |           |                                    |                |                              |           |                       |                      |                      |
| <b>55</b>       | <b>UCX11D1</b>     | <b>55</b>          | <b>110</b> | <b>65.1</b> | <b>27</b> | <b>2</b>                           | <b>25.4</b>    | <b>39.7</b>                  | <b>10</b> | <b>M10 × 1.25</b>     | <b>77</b>            | <b>7.3</b>           |
| $\frac{2}{16}$  | <b>UCX11-201D1</b> | 2.0625             |            |             |           |                                    |                |                              |           |                       |                      |                      |
| $\frac{2}{8}$   | <b>UCX11-202D1</b> | 2.1250             | 4.3307     | 2.5630      | 1.0630    | 0.079                              | 1.000          | 1.563                        | 0.394     | $\frac{3}{8}$ -24UNF  | 3.0315               | 0.287                |
| $\frac{3}{16}$  | <b>UCX11-203D1</b> | 2.1875             |            |             |           |                                    |                |                              |           |                       |                      |                      |
| <b>60</b>       | <b>UCX12D1</b>     | <b>60</b>          | <b>120</b> | <b>65.1</b> | <b>32</b> | <b>2</b>                           | <b>25.4</b>    | <b>39.7</b>                  | <b>10</b> | <b>M10 × 1.25</b>     | <b>82.5</b>          | <b>7.3</b>           |
| $\frac{2}{8}$   | <b>UCX12-206D1</b> | 2.3750             | 4.7244     | 2.5630      | 1.2598    | 0.079                              | 1.000          | 1.563                        | 0.394     | $\frac{3}{8}$ -24UNF  | 3.2480               | 0.287                |
| $\frac{2}{16}$  | <b>UCX12-207D1</b> | 2.4375             |            |             |           |                                    |                |                              |           |                       |                      |                      |

Remarks: 1) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

| Basic load ratings |          | Factor <sup>1)</sup> | Mass<br>(approx.) |
|--------------------|----------|----------------------|-------------------|
| $C_r$              | $C_{or}$ | $f_0$                | kg lb             |
| 19 500             | 11 300   | 13.8                 | 0.39              |
|                    |          |                      | 0.97              |
| 4 400              | 2 540    |                      | 0.93              |
|                    |          |                      | 0.88              |
|                    |          |                      | 0.84              |
| 25 700             | 15 300   | 13.8                 | 0.68              |
|                    |          |                      | 1.61              |
| 5 750              | 3 450    |                      | 1.54              |
|                    |          |                      | 1.50              |
| 29 100             | 17 800   | 14.0                 | 0.74              |
|                    |          |                      | 1.87              |
| 6 550              | 4 000    |                      | 1.81              |
|                    |          |                      | 1.74              |
| 32 500             | 20 400   | 14.1                 | 0.80              |
|                    |          |                      | 2.16              |
| 7 350              | 4 600    |                      | 2.07              |
|                    |          |                      |                   |
| 35 000             | 23 200   | 14.4                 | 0.94              |
|                    |          |                      | 2.43              |
| 7 900              | 5 200    |                      | 2.34              |
|                    |          |                      | 2.25              |
|                    |          |                      |                   |
| 43 500             | 29 200   | 14.3                 | 1.22              |
|                    |          |                      | 3.15              |
| 9 750              | 6 550    |                      | 3.04              |
|                    |          |                      |                   |
| 52 500             | 36 000   | 14.3                 | 1.72              |
|                    |          |                      | 4.43              |
| 11 800             | 8 150    |                      | 4.30              |
|                    |          |                      | 4.12              |
|                    |          |                      |                   |
| 57 500             | 40 000   | 14.4                 | 2.10              |
|                    |          |                      | 4.96              |
| 12 900             | 9 000    |                      | 4.81              |

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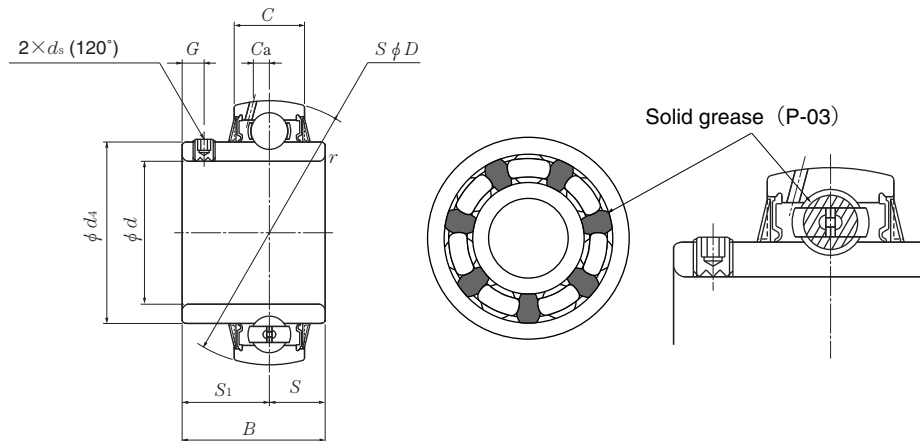


| Shaft<br>dia.  | Bearing number     | Nominal dimensions |            |              |           |                                    |                |                              |           |                      |                      |                      |
|----------------|--------------------|--------------------|------------|--------------|-----------|------------------------------------|----------------|------------------------------|-----------|----------------------|----------------------|----------------------|
|                |                    | <i>d</i>           | <i>D</i>   | <i>B</i>     | <i>C</i>  | <i>r<sub>s</sub></i><br>mm<br>min. | <i>S</i><br>mm | <i>S<sub>1</sub></i><br>inch | <i>G</i>  | <i>d<sub>s</sub></i> | <i>d<sub>4</sub></i> | <i>C<sub>a</sub></i> |
| <b>65</b>      | <b>UCX13D1</b>     | <b>65</b>          | <b>125</b> | <b>74.6</b>  | <b>33</b> | <b>2</b>                           | <b>30.2</b>    | <b>44.4</b>                  | <b>12</b> | <b>M12 × 1.5</b>     | <b>87</b>            | <b>7.7</b>           |
| <b>2 1/2</b>   | <b>UCX13-208D1</b> | 2.5000             | 4.9213     | 2.9370       | 1.2992    | 0.079                              | 1.189          | 1.748                        | 0.472     | 1/2-20UNF            | 3.4252               | 0.303                |
| <b>2 9/16</b>  | <b>UCX13-209D1</b> | 2.5625             |            |              |           |                                    |                |                              |           |                      |                      |                      |
| <b>70</b>      | <b>UCX14D1</b>     | <b>70</b>          | <b>130</b> | <b>77.8</b>  | <b>34</b> | <b>2</b>                           | <b>33.3</b>    | <b>44.5</b>                  | <b>12</b> | <b>M12 × 1.5</b>     | <b>93</b>            | <b>8</b>             |
| <b>2 5/8</b>   | <b>UCX14-210D1</b> | 2.6250             |            |              |           |                                    |                |                              |           |                      |                      |                      |
| <b>2 11/16</b> | <b>UCX14-211D1</b> | 2.6875             | 5.1181     | 3.0630       | 1.3386    | 0.079                              | 1.311          | 1.752                        | 0.472     | 1/2-20UNF            | 3.6614               | 0.315                |
| <b>2 3/4</b>   | <b>UCX14-212D1</b> | 2.7500             |            |              |           |                                    |                |                              |           |                      |                      |                      |
| <b>75</b>      | <b>UCX15D1</b>     | <b>75</b>          | <b>140</b> | <b>82.6</b>  | <b>35</b> | <b>2</b>                           | <b>33.3</b>    | <b>49.3</b>                  | <b>12</b> | <b>M12 × 1.5</b>     | <b>98.1</b>          | <b>8</b>             |
| <b>2 13/16</b> | <b>UCX15-213D1</b> | 2.8125             |            |              |           |                                    |                |                              |           |                      |                      |                      |
| <b>2 7/8</b>   | <b>UCX15-214D1</b> | 2.8750             | 5.5118     | 3.2520       | 1.3780    | 0.079                              | 1.311          | 1.941                        | 0.472     | 1/2-20UNF            | 3.8622               | 0.315                |
| <b>2 15/16</b> | <b>UCX15-215D1</b> | 2.9375             |            |              |           |                                    |                |                              |           |                      |                      |                      |
| <b>3</b>       | <b>UCX15-300D1</b> | 3.0000             |            |              |           |                                    |                |                              |           |                      |                      |                      |
| <b>80</b>      | <b>UCX16D1</b>     | <b>80</b>          | <b>150</b> | <b>85.7</b>  | <b>36</b> | <b>2.5</b>                         | <b>34.1</b>    | <b>51.6</b>                  | <b>12</b> | <b>M12 × 1.5</b>     | <b>106.4</b>         | <b>7.9</b>           |
| <b>3 1/16</b>  | <b>UCX16-301D1</b> | 3.0625             |            |              |           |                                    |                |                              |           |                      |                      |                      |
| <b>3 1/8</b>   | <b>UCX16-302D1</b> | 3.1250             | 5.9055     | 3.3740       | 1.4173    | 0.098                              | 1.343          | 2.031                        | 0.472     | 1/2-20UNF            | 4.1890               | 0.311                |
| <b>3 3/16</b>  | <b>UCX16-303D1</b> | 3.1875             |            |              |           |                                    |                |                              |           |                      |                      |                      |
| <b>85</b>      | <b>UCX17D1</b>     | <b>85</b>          | <b>160</b> | <b>96</b>    | <b>37</b> | <b>2.5</b>                         | <b>39.7</b>    | <b>56.3</b>                  | <b>12</b> | <b>M12 × 1.5</b>     | <b>111.6</b>         | <b>8.7</b>           |
| <b>3 5/16</b>  | <b>UCX17-305D1</b> | 3.3125             | 6.2992     | 3.7795       | 1.4567    | 0.098                              | 1.563          | 2.217                        | 0.472     | 1/2-20UNF            | 4.3937               | 0.343                |
| <b>3 1/16</b>  | <b>UCX17-307D1</b> | 3.4375             |            |              |           |                                    |                |                              |           |                      |                      |                      |
| <b>90</b>      | <b>UCX18D1</b>     | <b>90</b>          | <b>170</b> | <b>104</b>   | <b>39</b> | <b>2.5</b>                         | <b>42.9</b>    | <b>61.1</b>                  | <b>14</b> | <b>M14 × 1.5</b>     | <b>118.2</b>         | <b>9</b>             |
| <b>3 7/16</b>  | <b>UCX18-307D1</b> | 3.4375             | 6.6929     | 4.0945       | 1.5354    | 0.098                              | 1.689          | 2.406                        | 0.551     | 9/16-18UNF           | 4.6535               | 0.354                |
| <b>3 1/2</b>   | <b>UCX18-308D1</b> | 3.5000             |            |              |           |                                    |                |                              |           |                      |                      |                      |
| <b>100</b>     | <b>UCX20D1</b>     | <b>100</b>         | <b>190</b> | <b>117.5</b> | <b>44</b> | <b>2.5</b>                         | <b>49.2</b>    | <b>68.3</b>                  | <b>16</b> | <b>M16 × 1.5</b>     | <b>131.3</b>         | <b>10.7</b>          |
| <b>3 13/16</b> | <b>UCX20-313D1</b> | 3.8125             |            |              |           |                                    |                |                              |           |                      |                      |                      |
| <b>3 7/8</b>   | <b>UCX20-314D1</b> | 3.8750             | 7.4803     | 4.6260       | 1.7323    | 0.098                              | 1.937          | 2.689                        | 0.630     | 5/8-18UNF            | 5.1693               | 0.421                |
| <b>3 15/16</b> | <b>UCX20-315D1</b> | 3.9375             |            |              |           |                                    |                |                              |           |                      |                      |                      |
| <b>4</b>       | <b>UCX20-400D1</b> | 4.0000             |            |              |           |                                    |                |                              |           |                      |                      |                      |

Remarks: 1) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

| Basic load ratings |          | Factor <sup>1)</sup> | Mass<br>(approx.) |
|--------------------|----------|----------------------|-------------------|
| $C_r$              | $C_{or}$ | $f_0$                | kg lb             |
| 62 000             | 44 000   | 14.5                 | 2.45              |
| 14 000             | 9 900    |                      | 5.60              |
|                    |          |                      | 5.38              |
| 66 000             | 49 500   | 14.7                 | 2.47              |
| 14 900             | 11 100   |                      | 5.93              |
|                    |          |                      | 5.69              |
|                    |          |                      | 5.47              |
| 72 500             | 53 000   | 14.6                 | 3.11              |
|                    |          |                      | 7.43              |
| 16 300             | 11 900   |                      | 7.19              |
|                    |          |                      | 6.92              |
|                    |          |                      | 6.66              |
| 83 500             | 64 000   | 14.7                 | 3.96              |
|                    |          |                      | 8.75              |
| 18 700             | 14 300   |                      | 8.47              |
|                    |          |                      | 8.18              |
| 96 000             | 71 500   | 14.5                 | 4.72              |
| 21 600             | 16 100   |                      | 10.8              |
|                    |          |                      | 10.1              |
| 109 000            | 82 000   | 14.4                 | 5.50              |
| 24 500             | 18 400   |                      | 13.3              |
|                    |          |                      | 12.4              |
| 133 000            | 105 000  | 14.4                 | 8.06              |
|                    |          |                      | 18.8              |
| 29 900             | 23 500   |                      | 18.4              |
|                    |          |                      | 19.7              |
|                    |          |                      | 19.2              |

# Stainless ball bearing with solid grease Set screw type

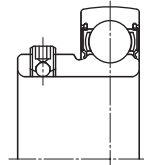
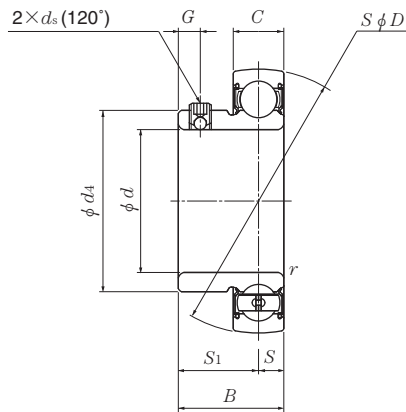


| Shaft<br>dia.<br><br>mm | Bearing number | Nominal dimensions |     |      |     |               |           |       |     |           |       |       |
|-------------------------|----------------|--------------------|-----|------|-----|---------------|-----------|-------|-----|-----------|-------|-------|
|                         |                | $d$                | $D$ | $B$  | $C$ | $r_s$<br>min. | mm<br>$S$ | $S_1$ | $G$ | $ds$      | $C_a$ | $d_4$ |
| 20                      | F-UC204D1/LP03 | 20                 | 47  | 31   | 17  | 1             | 12.7      | 18.3  | 4.5 | M5 × 0.8  | 3.8   | 29.6  |
| 25                      | F-UC205D1/LP03 | 25                 | 52  | 34.1 | 17  | 1             | 14.3      | 19.8  | 5   | M5 × 0.8  | 4     | 33.9  |
| 30                      | F-UC206D1/LP03 | 30                 | 62  | 38.1 | 19  | 1             | 15.9      | 22.2  | 5   | M6 × 0.75 | 4.9   | 40.8  |
| 35                      | F-UC207D1/LP03 | 35                 | 72  | 42.9 | 20  | 1.5           | 17.5      | 25.4  | 6   | M6 × 0.75 | 5.4   | 46.8  |
| 40                      | F-UC208D1/LP03 | 40                 | 80  | 49.2 | 21  | 1.5           | 19        | 30.2  | 8   | M8 × 1    | 6     | 53    |
| 45                      | F-UC209D1/LP03 | 45                 | 85  | 49.2 | 22  | 1.5           | 19        | 30.2  | 8   | M8 × 1    | 6.1   | 57.5  |
| 50                      | F-UC210D1/LP03 | 50                 | 90  | 51.6 | 24  | 1.5           | 19        | 32.6  | 9   | M8 × 1    | 6.1   | 62.4  |

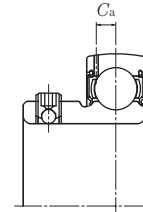
Remarks: 1) The basic dynamic load rating  $C_r$  of the bearing is different from a bearing made with standard bearing steel.

| Basic load ratings |                                  | Factor | Mass<br>(approx.) |
|--------------------|----------------------------------|--------|-------------------|
| dynamic<br>$C_r$   | $\text{N}$<br>static<br>$C_{or}$ | $f_0$  | kg                |
| 9 900              | 6 650                            | 13.2   | 0.17              |
| 10 800             | 7 850                            | 13.9   | 0.20              |
| 15 000             | 11 300                           | 13.8   | 0.30              |
| 19 700             | 15 300                           | 13.8   | 0.40              |
| 22 400             | 17 800                           | 14.0   | 0.60              |
| 25 200             | 20 400                           | 14.1   | 0.68              |
| 27 000             | 23 200                           | 14.4   | 0.78              |

# Ball bearings Set screw type



Maintenance free type : AS2xx  
Example : AS205



Relubricatable : AS2xxD1  
Example : AS205D1

| Shaft<br>dia.                            | Bearing number <sup>1)</sup>                              | Nominal dimensions                         |                        |              |              |                              |              |                        |              |                         |              |                |
|------------------------------------------|-----------------------------------------------------------|--------------------------------------------|------------------------|--------------|--------------|------------------------------|--------------|------------------------|--------------|-------------------------|--------------|----------------|
|                                          |                                                           | d                                          | D                      | B            | C            | mm<br>r <sub>s</sub><br>min. | mm<br>S      | inch<br>S <sub>1</sub> | G            | ds                      | Ca           | d <sub>4</sub> |
| 12<br>1/2                                | AS201<br>AS201-008                                        | 12<br>0.5000                               | 40<br>1.5748           | 22<br>0.8661 | 12<br>0.4724 | 0.6<br>0.024                 | 6<br>0.236   | 16<br>0.630            | 4.2<br>0.165 | M5 × 0.8<br>No.10-32UNF | 3.7<br>0.146 | 24.3<br>0.957  |
| 15<br>9/16<br>5/8                        | AS202<br>AS202-009<br>AS202-010                           | 15<br>0.5625<br>0.6250                     | 40<br>1.5748           | 22<br>0.8661 | 12<br>0.4724 | 0.6<br>0.024                 | 6<br>0.236   | 16<br>0.630            | 4.2<br>0.165 | M5 × 0.8<br>No.10-32UNF | 3.7<br>0.146 | 24.3<br>0.957  |
| 17<br>11/16                              | AS203<br>AS203-011                                        | 17<br>0.6875                               | 40<br>1.5748           | 22<br>0.8661 | 12<br>0.4724 | 0.6<br>0.024                 | 6<br>0.236   | 16<br>0.630            | 4.2<br>0.165 | M5 × 0.8<br>No.10-32UNF | 3.7<br>0.146 | 24.3<br>0.957  |
| 20<br>3/4                                | AS204<br>AS204-012                                        | 20<br>0.7500                               | 47<br>1.8504           | 25<br>0.9843 | 14<br>0.5512 | 1<br>0.039                   | 7<br>0.276   | 18<br>0.709            | 4.2<br>0.165 | M5 × 0.8<br>No.10-32UNF | 4.2<br>0.165 | 29.6<br>1.165  |
| 25<br>13/16<br>7/8<br>15/16<br>1         | AS205<br>AS205-013<br>AS205-014<br>AS205-015<br>AS205-100 | 25<br>0.8125<br>0.8750<br>0.9375<br>1.0000 | 52<br>1.8113<br>2.0472 | 27<br>1.0630 | 15<br>0.5906 | 1<br>0.039                   | 7.5<br>0.295 | 19.5<br>0.768          | 5<br>0.197   | M5 × 0.8<br>No.10-32UNF | 4<br>0.157   | 33.9<br>1.335  |
| 30<br>1 1/16<br>1 1/8<br>1 3/16<br>1 1/4 | AS206<br>AS206-101<br>AS206-102<br>AS206-103<br>AS206-104 | 30<br>1.0625<br>1.1250<br>1.1875<br>1.2500 | 62<br>2.4409           | 29<br>1.1417 | 16<br>0.6299 | 1<br>0.039                   | 8<br>0.315   | 21<br>0.827            | 5<br>0.197   | M6 × 0.75<br>1/4-28UNF  | 5.1<br>0.201 | 40.8<br>1.606  |
| 35<br>1 1/4<br>1 5/16<br>1 3/8<br>1 7/16 | AS207<br>AS207-104<br>AS207-105<br>AS207-106<br>AS207-107 | 35<br>1.2500<br>1.3125<br>1.3750<br>1.4375 | 72<br>2.8346           | 34<br>1.3386 | 17<br>0.6693 | 1.5<br>0.059                 | 8.5<br>0.335 | 25.5<br>1.004          | 6<br>0.236   | M6 × 0.75<br>1/4-28UNF  | 5.6<br>0.226 | 46.8<br>1.843  |
| 40<br>1 1/2<br>1 9/16                    | AS208<br>AS208-108<br>AS208-109                           | 40<br>1.5000<br>1.5625                     | 80<br>3.1496           | 38<br>1.4961 | 18<br>0.7087 | 1.5<br>0.059                 | 9<br>0.354   | 29<br>1.142            | 8<br>0.315   | M8 × 1<br>5/16-24UNF    | 6.1<br>0.240 | 53<br>2.087    |

Remarks: 1) If relubricatable type is needed, please order with suffix "D1".

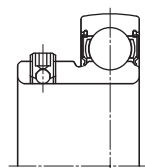
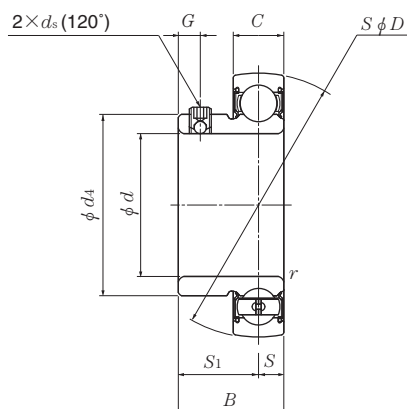
2) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

| Basic load ratings    |                           | Factor <sup>2)</sup> | Mass<br>(approx.)                    |
|-----------------------|---------------------------|----------------------|--------------------------------------|
| N<br>dynamic<br>$C_r$ | lbf<br>static<br>$C_{or}$ | $f_0$                | kg lb                                |
| 9 600<br>2 160        | 4 600<br>1 030            | 12.8                 | 0.10<br>0.22                         |
| 9 600<br>2 160        | 4 600<br>1 030            | 12.8                 | 0.09<br>0.21<br>0.20                 |
| 9 600<br>2 160        | 4 600<br>1 030            | 12.8                 | 0.08<br>0.18                         |
| 12 800<br>2 890       | 6 650<br>1 500            | 13.2                 | 0.13<br>0.29                         |
| 14 000<br>3 150       | 7 850<br>1 770            | 13.9                 | 0.16<br>0.42<br>0.40<br>0.38<br>0.35 |
| 19 500<br>4 400       | 11 300<br>2 540           | 13.8                 | 0.25<br>0.61<br>0.59<br>0.57<br>0.55 |
| 25 700<br>5 750       | 15 300<br>3 450           | 13.8                 | 0.38<br>1.06<br>0.93<br>0.81<br>0.69 |
| 29 100<br>6 550       | 17 800<br>4 000           | 14.0                 | 0.51<br>1.15<br>1.06                 |

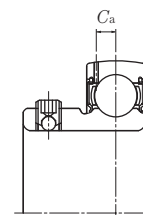


## Ball bearings

### Set screw type



Maintenance free type : AS2xx  
Example : AS205



Relubricatable : AS2xxD1  
Example : AS205D1

| Shaft<br>dia.  | Bearing number <sup>1)</sup> | Nominal dimensions |           |           |           |                                    |            |                              |          |               |            |                      |
|----------------|------------------------------|--------------------|-----------|-----------|-----------|------------------------------------|------------|------------------------------|----------|---------------|------------|----------------------|
|                |                              | <i>d</i>           | <i>D</i>  | <i>B</i>  | <i>C</i>  | <i>r<sub>s</sub></i><br>mm<br>min. | <i>S</i>   | inch<br><i>S<sub>1</sub></i> | <i>G</i> | <i>ds</i>     | <i>Ca</i>  | <i>d<sub>4</sub></i> |
| <b>45</b>      | <b>AS209</b>                 | <b>45</b>          | <b>85</b> | <b>40</b> | <b>19</b> | <b>1.5</b>                         | <b>9.5</b> | <b>30.5</b>                  | <b>8</b> | <b>M8 × 1</b> | <b>6.3</b> | <b>57.5</b>          |
| <b>1 5/8</b>   | <b>AS209-110</b>             | 1.6250             |           |           |           |                                    |            |                              |          |               |            |                      |
| <b>1 11/16</b> | <b>AS209-111</b>             | 1.6875             | 3.3465    | 1.5748    | 0.7480    | 0.059                              | 0.374      | 1.201                        | 0.315    | 5/16-24UNF    | 0.248      | 2.2638               |
| <b>1 3/4</b>   | <b>AS209-112</b>             | 1.7500             |           |           |           |                                    |            |                              |          |               |            |                      |
| <b>50</b>      | <b>AS210</b>                 | <b>50</b>          | <b>90</b> | <b>42</b> | <b>20</b> | <b>1.5</b>                         | <b>10</b>  | <b>32</b>                    | <b>9</b> | <b>M8X1</b>   | <b>6.4</b> | <b>62.4</b>          |
| <b>1 13/16</b> | <b>AS210-113</b>             | 1.8125             |           |           |           |                                    |            |                              |          |               |            |                      |
| <b>1 7/8</b>   | <b>AS210-114</b>             | 1.8750             | 3.5433    | 1.6535    | 0.7874    | 0.059                              | 0.394      | 1.260                        | 0.354    | 5/16-24UNF    | 0.252      | 2.4567               |
| <b>1 15/16</b> | <b>AS210-115</b>             | 1.9375             |           |           |           |                                    |            |                              |          |               |            |                      |
| <b>2</b>       | <b>AS210-200</b>             | 2.0000             |           |           |           |                                    |            |                              |          |               |            |                      |

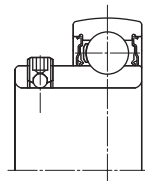
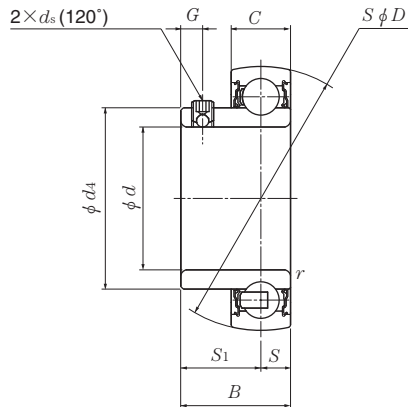
Remarks: 1) If relubricatable type is needed, please order with suffix "D1".

2) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

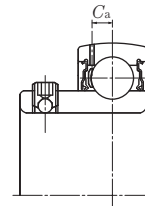
| Basic load ratings |          | Factor <sup>2)</sup> | Mass<br>(approx.) |      |
|--------------------|----------|----------------------|-------------------|------|
| $C_r$              | $C_{or}$ | $f_0$                | kg                | lb   |
| 32 500             | 20 400   | 14.1                 | 0.55              | 1.39 |
| 7 350              | 4 600    |                      | 1.32              | 1.23 |
| 35 000             | 23 200   |                      | 0.65              | 1.65 |
| 7 900              | 5 200    | 14.4                 | 1.57              | 1.48 |
|                    |          |                      | 1.48              | 1.39 |
|                    |          |                      | 1.39              |      |

# Ball bearings

## Set screw type



Maintenance free type : AR2xx  
Example : AR205



Relubricatable : AR2xxD1  
Example : AR205D1

| Shaft<br>dia.                            | Bearing number <sup>1)</sup>                              | Nominal dimensions                         |              |                |              |                                    |                  |                       |            |                        |              |                       |
|------------------------------------------|-----------------------------------------------------------|--------------------------------------------|--------------|----------------|--------------|------------------------------------|------------------|-----------------------|------------|------------------------|--------------|-----------------------|
|                                          |                                                           | <i>d</i>                                   | <i>D</i>     | <i>B</i>       | <i>C</i>     | <i>r<sub>s</sub></i><br>mm<br>min. | <i>S</i><br>inch | <i>S</i> <sub>1</sub> | <i>G</i>   | <i>ds</i>              | <i>Ca</i>    | <i>d</i> <sub>4</sub> |
| 12<br>1/2                                | AR201<br>AR201-008                                        | 12<br>0.5000                               | 40<br>1.5748 | 22.5<br>0.8858 | 13<br>0.5118 | 0.6<br>0.024                       | 6.5<br>0.256     | 16<br>0.630           | 5<br>0.197 | M6 × 0.75<br>1/4-28UNF | 3.9<br>0.154 | 24.4<br>0.9606        |
| 15<br>9/16<br>5/8                        | AR202<br>AR202-009<br>AR202-010                           | 15<br>0.5625<br>0.6250                     | 40<br>1.5748 | 22.5<br>0.8858 | 13<br>0.5118 | 0.6<br>0.024                       | 6.5<br>0.256     | 16<br>0.630           | 5<br>0.197 | M6 × 0.75<br>1/4-28UNF | 3.9<br>0.154 | 24.4<br>0.9606        |
| 17<br>1 1/16                             | AR203<br>AR203-011                                        | 17<br>0.6875                               | 40<br>1.5748 | 22.5<br>0.8858 | 13<br>0.5118 | 0.6<br>0.024                       | 6.5<br>0.256     | 16<br>0.630           | 5<br>0.197 | M6 × 0.75<br>1/4-28UNF | 3.9<br>0.154 | 24.4<br>0.9606        |
| 20<br>3/4                                | AR204<br>AR204-012                                        | 20<br>0.7500                               | 47<br>1.8504 | 25.5<br>1.0039 | 15<br>0.5906 | 1<br>0.039                         | 7.5<br>0.295     | 18<br>0.709           | 5<br>0.197 | M6 × 0.75<br>1/4-28UNF | 4.3<br>0.169 | 29.6<br>1.1654        |
| 25<br>1 3/16<br>7/8<br>1 5/16<br>1       | AR205<br>AR205-013<br>AR205-014<br>AR205-015<br>AR205-100 | 25<br>0.8125<br>0.8750<br>0.9375<br>1.0000 | 52<br>2.0472 | 27<br>1.0630   | 15<br>0.5906 | 1<br>0.039                         | 7.5<br>0.295     | 19.5<br>0.768         | 5<br>0.197 | M6 × 0.75<br>1/4-28UNF | 4<br>0.157   | 33.9<br>1.3346        |
| 30<br>1 1/16<br>1 1/8<br>1 3/16<br>1 1/4 | AR206<br>AR206-101<br>AR206-102<br>AR206-103<br>AR206-104 | 30<br>1.0625<br>1.1250<br>1.1875<br>1.2500 | 62<br>2.4409 | 30<br>1.1811   | 18<br>0.7087 | 1<br>0.039                         | 9<br>0.354       | 21<br>0.827           | 5<br>0.197 | M6 × 0.75<br>1/4-28UNF | 4.9<br>0.193 | 40.8<br>1.6063        |
| 35<br>1 1/4<br>1 5/16<br>1 3/8<br>1 7/16 | AR207<br>AR207-104<br>AR207-105<br>AR207-106<br>AR207-107 | 35<br>1.2500<br>1.3125<br>1.3750<br>1.4375 | 72<br>2.8346 | 35<br>1.3780   | 19<br>0.7480 | 1.5<br>0.059                       | 9.5<br>0.374     | 25.5<br>1.004         | 6<br>0.236 | M6 × 0.75<br>1/4-28UNF | 5.4<br>0.213 | 46.8<br>1.8425        |
| 40<br>1 1/2<br>1 9/16                    | AR208<br>AR208-108<br>AR208-109                           | 40<br>1.5000<br>1.5625                     | 80<br>3.1496 | 40<br>1.5748   | 22<br>0.8661 | 1.5<br>0.059                       | 11<br>0.433      | 29<br>1.142           | 8<br>0.315 | M8 × 1<br>5/16-24UNF   | 6.5<br>0.256 | 53<br>2.0866          |

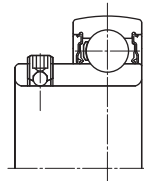
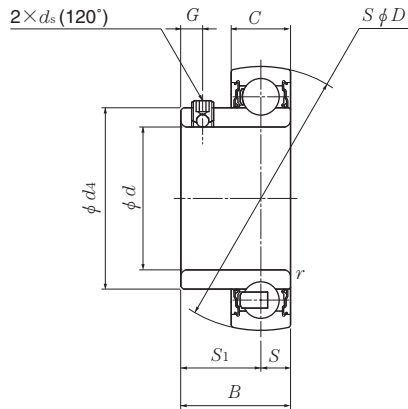
Remarks: 1) If relubricatable type is needed, please order with suffix "D1".

2) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

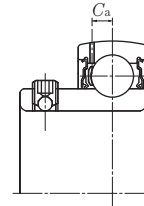
| Basic load ratings |                 | Factor <sup>2)</sup> | Mass<br>(approx.)                    |
|--------------------|-----------------|----------------------|--------------------------------------|
| $C_r$              | $C_{or}$        | $f_0$                | kg lb                                |
| 9 600<br>2 160     | 4 600<br>1 030  | 12.8                 | 0.11<br>0.24                         |
| 9 600<br>2 160     | 4 600<br>1 030  | 12.8                 | 0.10<br>0.23<br>0.22                 |
| 9 600<br>2 160     | 4 600<br>1 030  | 12.8                 | 0.09<br>0.20                         |
| 12 800<br>2 890    | 6 650<br>1 500  | 13.2                 | 0.14<br>0.31                         |
| 14 000<br>3 150    | 7 850<br>1 770  | 13.9                 | 0.17<br>0.44<br>0.42<br>0.40<br>0.37 |
| 19 500<br>4 400    | 11 300<br>2 540 | 13.8                 | 0.26<br>0.63<br>0.61<br>0.59<br>0.57 |
| 25 700<br>5 750    | 15 300<br>3 450 | 13.8                 | 0.39<br>1.10<br>0.97<br>0.85<br>0.73 |
| 29 100<br>6 550    | 17 800<br>4 000 | 14.0                 | 0.54<br>1.24<br>1.15                 |

## Ball bearings

### Set screw type



Maintenance free type : AR2xx  
Example : AR205



Relubricatable : AR2xxD1  
Example : AR205D1

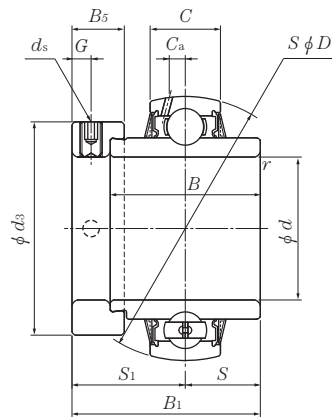
| Shaft<br>dia.                       | Bearing number <sup>1)</sup> | Nominal dimensions |           |             |           |                                    |                  |                      |          |                                     |            |                      |
|-------------------------------------|------------------------------|--------------------|-----------|-------------|-----------|------------------------------------|------------------|----------------------|----------|-------------------------------------|------------|----------------------|
|                                     |                              | <i>d</i>           | <i>D</i>  | <i>B</i>    | <i>C</i>  | <i>r<sub>s</sub></i><br>mm<br>min. | <i>S</i><br>inch | <i>S<sub>1</sub></i> | <i>G</i> | <i>ds</i>                           | <i>Ca</i>  | <i>d<sub>4</sub></i> |
| <b>45</b>                           | <b>AR209</b>                 | <b>45</b>          | <b>85</b> | <b>41.5</b> | <b>22</b> | <b>1.5</b>                         | <b>11</b>        | <b>30.5</b>          | <b>8</b> | <b>M8X1</b>                         | <b>6.1</b> | <b>57.5</b>          |
| <b>1<sup>5</sup>/<sub>8</sub></b>   | <b>AR209-110</b>             | 1.6250             |           |             |           |                                    |                  |                      |          |                                     |            |                      |
| <b>1<sup>11</sup>/<sub>16</sub></b> | <b>AR209-111</b>             | 1.6875             | 3.3465    | 1.6339      | 0.8661    | 0.059                              | 0.433            | 1.201                | 0.315    | <sup>5</sup> / <sub>16</sub> -24UNF | 0.240      | 2.2638               |
| <b>1<sup>3</sup>/<sub>4</sub></b>   | <b>AR209-112</b>             | 1.7500             |           |             |           |                                    |                  |                      |          |                                     |            |                      |
| <b>50</b>                           | <b>AR210</b>                 | <b>50</b>          | <b>90</b> | <b>43</b>   | <b>22</b> | <b>1.5</b>                         | <b>11</b>        | <b>32</b>            | <b>9</b> | <b>M8X1</b>                         | <b>6.7</b> | <b>62.4</b>          |
| <b>1<sup>13</sup>/<sub>16</sub></b> | <b>AR210-113</b>             | 1.8125             |           |             |           |                                    |                  |                      |          |                                     |            |                      |
| <b>1<sup>7</sup>/<sub>8</sub></b>   | <b>AR210-114</b>             | 1.8750             | 3.5433    | 1.6929      | 0.8661    | 0.059                              | 0.433            | 1.260                | 0.354    | <sup>5</sup> / <sub>16</sub> -24UNF | 0.264      | 2.4567               |
| <b>1<sup>15</sup>/<sub>16</sub></b> | <b>AR210-115</b>             | 1.9375             |           |             |           |                                    |                  |                      |          |                                     |            |                      |
| <b>2</b>                            | <b>AR210-200</b>             | 2.0000             |           |             |           |                                    |                  |                      |          |                                     |            |                      |

Remarks: 1) If relubricatable type is needed, please order with suffix "D1".

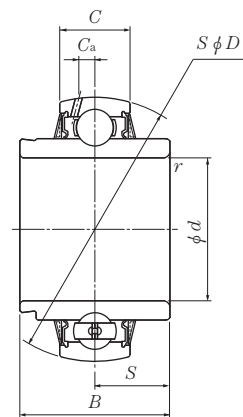
2) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

| Basic load ratings |          | Factor <sup>2)</sup> | Mass<br>(approx.) |      |
|--------------------|----------|----------------------|-------------------|------|
| $C_r$              | $C_{or}$ | $f_0$                | kg                | lb   |
| 32 500             | 20 400   | 14.1                 | 0.61              | 1.54 |
| 7 350              | 4 600    |                      | 1.46              | 1.39 |
| 35 000             | 23 200   |                      | 0.70              | 1.76 |
| 7 900              | 5 200    | 14.4                 | 1.68              | 1.59 |
|                    |          |                      | 1.59              | 1.50 |
|                    |          |                      | 1.50              |      |

# Ball bearings Eccentric locking collar type



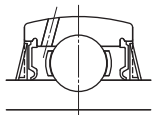
Eccentric locking collar + bearing  
UELxxxD1W3



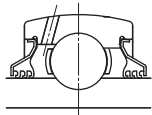
Eccentric locking collar type  
ULxxxD1

| Shaft<br>dia.                            | Bearing number                                                                     | Nominal dimensions                         |              |                       |                |              |                                     |                  |                       |              |                         |                       |  |
|------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------|--------------|-----------------------|----------------|--------------|-------------------------------------|------------------|-----------------------|--------------|-------------------------|-----------------------|--|
|                                          |                                                                                    | <i>d</i>                                   | <i>D</i>     | <i>B</i> <sub>1</sub> | <i>B</i>       | <i>C</i>     | <i>r</i> <sub>s</sub><br>mm<br>min. | <i>S</i><br>inch | <i>S</i> <sub>1</sub> | <i>G</i>     | <i>d</i> <sub>s</sub>   | <i>d</i> <sub>3</sub> |  |
| 20<br>3/4                                | UEL204D1W3<br>UEL204-012D1W3                                                       | 20<br>0.7500                               | 47<br>1.8504 | 43.7<br>1.720         | 34.2<br>1.3465 | 17<br>0.6693 | 1<br>0.039                          | 17.1<br>0.673    | 26.6<br>1.047         | 4.8<br>0.189 | M6 × 0.75<br>1/4-28UNF  | 33<br>1.299           |  |
| 25<br>1 13/16<br>7/8<br>1 15/16<br>1     | UEL205D1W3<br>UEL205-013D1W3<br>UEL205-014D1W3<br>UEL205-015D1W3<br>UEL205-100D1W3 | 25<br>0.8125<br>0.8750<br>0.9375<br>1.0000 | 52<br>2.0472 | 44.4<br>1.748         | 34.9<br>1.3740 | 17<br>0.6693 | 1<br>0.039                          | 17.45<br>0.687   | 26.9<br>1.059         | 4.8<br>0.189 | M6 × 0.75<br>1/4-28UNF  | 38<br>1.496           |  |
| 30<br>1 1/16<br>1 1/8<br>1 3/16<br>1 1/4 | UEL206D1W3<br>UEL206-101D1W3<br>UEL206-102D1W3<br>UEL206-103D1W3<br>UEL206-104D1W3 | 30<br>1.0625<br>1.1250<br>1.1875<br>1.2500 | 62<br>2.4409 | 48.4<br>1.906         | 36.5<br>1.4370 | 19<br>0.7480 | 1<br>0.039                          | 18.25<br>0.719   | 30.1<br>1.185         | 6<br>0.236   | M8 × 1<br>5/16-24UNF    | 44.5<br>1.752         |  |
| 35<br>1 1/4<br>1 5/16<br>1 3/8<br>1 7/16 | UEL207D1W3<br>UEL207-104D1W3<br>UEL207-105D1W3<br>UEL207-106D1W3<br>UEL207-107D1W3 | 35<br>1.2500<br>1.3125<br>1.3750<br>1.4375 | 72<br>2.8346 | 51.1<br>2.012         | 37.6<br>1.4803 | 20<br>0.7874 | 1.5<br>0.059                        | 18.8<br>0.740    | 32.3<br>1.272         | 6.8<br>0.268 | M10 × 1.25<br>3/8-24UNF | 55.5<br>2.185         |  |
| 40<br>1 1/2<br>1 9/16                    | UEL208D1W3<br>UEL208-108D1W3<br>UEL208-109D1W3                                     | 40<br>1.5000<br>1.5625                     | 80<br>3.1496 | 56.3<br>2.217         | 42.8<br>1.6850 | 21<br>0.8268 | 1.5<br>0.059                        | 21.4<br>0.843    | 34.9<br>1.374         | 6.8<br>0.268 | M10 × 1.25<br>3/8-24UNF | 60<br>2.362           |  |
| 45<br>1 5/8<br>1 11/16<br>1 3/4          | UEL209D1W3<br>UEL209-110D1W3<br>UEL209-111D1W3<br>UEL209-112D1W3                   | 45<br>1.6250<br>1.6875<br>1.7500           | 85<br>3.3465 | 56.3<br>2.217         | 42.8<br>1.6850 | 22<br>0.8661 | 1.5<br>0.059                        | 21.4<br>0.843    | 34.9<br>1.374         | 6.8<br>0.268 | M10 × 1.25<br>3/8-24UNF | 63.5<br>2.500         |  |
| 50<br>1 13/16<br>1 7/8<br>1 15/16<br>2   | UEL210D1W3<br>UEL210-113D1W3<br>UEL210-114D1W3<br>UEL210-115D1W3<br>UEL210-200D1W3 | 50<br>1.8125<br>1.8750<br>1.9375<br>2.0000 | 90<br>3.5433 | 62.7<br>2.469         | 49.2<br>1.9370 | 24<br>0.9449 | 1.5<br>0.059                        | 24.6<br>0.969    | 38.1<br>1.500         | 6.8<br>0.268 | M10 × 1.25<br>3/8-24UNF | 69.5<br>2.736         |  |

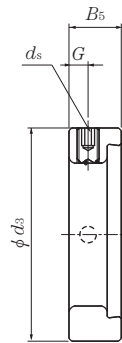
Remarks: 1) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.



Standard: Seal + Slinger

Triple Sealed Bearing  
UELxxxD1LLJW3

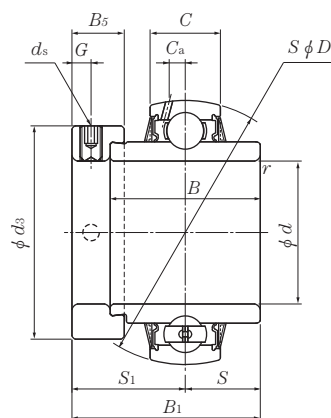
Example : UEL205D1LLJW3

Eccentric locking collar  
ELxxW3

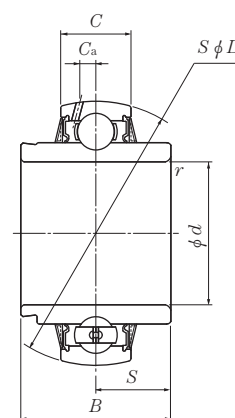
| Nominal dimensions    |                       | Basic load ratings                   |                                        | Factor <sup>1)</sup>  | Mass (approx.)                       |
|-----------------------|-----------------------|--------------------------------------|----------------------------------------|-----------------------|--------------------------------------|
| mm                    | inch                  | N<br>dynamic<br><i>C<sub>r</sub></i> | lbf<br>static<br><i>C<sub>or</sub></i> |                       | kg lb                                |
| <i>B</i> <sub>5</sub> | <i>C</i> <sub>a</sub> |                                      |                                        | <i>f</i> <sub>0</sub> |                                      |
| 13.5<br>0.531         | 3.8<br>0.150          | 12 800<br>2 890                      | 6 650<br>1 500                         | 13.2                  | 0.23<br>0.45                         |
| 13.5<br>0.531         | 4<br>0.157            | 14 000<br>3 150                      | 7 850<br>1 770                         | 13.9                  | 0.27<br>0.61<br>0.58<br>0.55<br>0.51 |
| 15.9<br>0.626         | 4.9<br>0.193          | 19 500<br>4 400                      | 11 300<br>2 540                        | 13.8                  | 0.45<br>0.94<br>0.89<br>0.84<br>0.80 |
| 17.5<br>0.689         | 5.4<br>0.213          | 25 700<br>5 750                      | 15 300<br>3 450                        | 13.8                  | 0.60<br>1.45<br>1.40<br>1.35<br>1.28 |
| 18.3<br>0.720         | 6<br>0.236            | 29 100<br>6 550                      | 17 800<br>4 000                        | 14.0                  | 0.78<br>1.90<br>1.82                 |
| 18.3<br>0.720         | 6.1<br>0.240          | 32 500<br>7 350                      | 20 400<br>4 600                        | 14.1                  | 0.80<br>2.05<br>1.97<br>1.88         |
| 18.3<br>0.720         | 6.1<br>0.240          | 35 000<br>7 900                      | 23 200<br>5 200                        | 14.4                  | 0.96<br>2.46<br>2.36<br>2.25<br>2.09 |



# Ball bearings Eccentric locking collar type



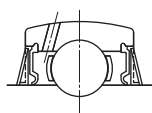
Eccentric locking collar + bearing  
UELxxxD1W3



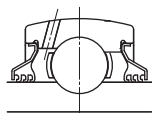
Eccentric locking collar type  
ULxxxD1

| Shaft<br>dia.                       | Bearing number        | Nominal dimensions |            |                       |             |           |                                     |                  |                       |            |                                |                       |  |
|-------------------------------------|-----------------------|--------------------|------------|-----------------------|-------------|-----------|-------------------------------------|------------------|-----------------------|------------|--------------------------------|-----------------------|--|
|                                     |                       | <i>d</i>           | <i>D</i>   | <i>B</i> <sub>1</sub> | <i>B</i>    | <i>C</i>  | <i>r</i> <sub>s</sub><br>mm<br>min. | <i>S</i><br>inch | <i>S</i> <sub>1</sub> | <i>G</i>   | <i>ds</i>                      | <i>d</i> <sub>3</sub> |  |
| <b>55</b>                           | <b>UEL211D1W3</b>     | <b>55</b>          | <b>100</b> | <b>71.4</b>           | <b>55.5</b> | <b>25</b> | <b>2</b>                            | <b>27.75</b>     | <b>43.6</b>           | <b>8</b>   | <b>M10 × 1.25</b>              | <b>76</b>             |  |
| <b>2</b>                            | <b>UEL211-200D1W3</b> | 2.0000             |            |                       |             |           |                                     |                  |                       |            |                                |                       |  |
| <b>2<sup>1</sup>/<sub>16</sub></b>  | <b>UEL211-201D1W3</b> | 2.0625             | 3.9370     | 2.811                 | 2.1850      | 0.9843    | 0.079                               | 1.093            | 1.717                 | 0.315      | <b>3</b> / <sub>8</sub> -24UNF | 2.992                 |  |
| <b>2<sup>1</sup>/<sub>8</sub></b>   | <b>UEL211-202D1W3</b> | 2.1250             |            |                       |             |           |                                     |                  |                       |            |                                |                       |  |
| <b>2<sup>3</sup>/<sub>16</sub></b>  | <b>UEL211-203D1W3</b> | 2.1875             |            |                       |             |           |                                     |                  |                       |            |                                |                       |  |
| <b>60</b>                           | <b>UEL212D1W3</b>     | <b>60</b>          | <b>110</b> | <b>77.8</b>           | <b>61.9</b> | <b>27</b> | <b>2</b>                            | <b>30.95</b>     | <b>46.8</b>           | <b>8</b>   | <b>M10 × 1.25</b>              | <b>84</b>             |  |
| <b>2<sup>1</sup>/<sub>4</sub></b>   | <b>UEL212-204D1W3</b> | 2.2500             |            |                       |             |           |                                     |                  |                       |            |                                |                       |  |
| <b>2<sup>5</sup>/<sub>16</sub></b>  | <b>UEL212-205D1W3</b> | 2.3125             | 4.3307     | 3.063                 | 2.4370      | 1.0630    | 0.079                               | 1.219            | 1.843                 | 0.315      | <b>3</b> / <sub>8</sub> -24UNF | 3.307                 |  |
| <b>2<sup>3</sup>/<sub>8</sub></b>   | <b>UEL212-206D1W3</b> | 2.3750             |            |                       |             |           |                                     |                  |                       |            |                                |                       |  |
| <b>2<sup>7</sup>/<sub>16</sub></b>  | <b>UEL212-207D1W3</b> | 2.4375             |            |                       |             |           |                                     |                  |                       |            |                                |                       |  |
| <b>65</b>                           | <b>UEL213D1W3</b>     | <b>65</b>          | <b>120</b> | <b>85.7</b>           | <b>68.3</b> | <b>32</b> | <b>2</b>                            | <b>34.15</b>     | <b>51.55</b>          | <b>8.7</b> | <b>M10 × 1.25</b>              | <b>97</b>             |  |
| <b>2<sup>1</sup>/<sub>2</sub></b>   | <b>UEL213-208D1W3</b> | 2.5000             | 4.7244     | 3.374                 | 2.6890      | 1.2598    | 0.079                               | 1.344            | 2.030                 | 0.343      | <b>3</b> / <sub>8</sub> -24UNF | 3.819                 |  |
| <b>2<sup>9</sup>/<sub>16</sub></b>  | <b>UEL213-209D1W3</b> | 2.5625             |            |                       |             |           |                                     |                  |                       |            |                                |                       |  |
| <b>70</b>                           | <b>UEL214D1W3</b>     | <b>70</b>          | <b>125</b> | <b>85.7</b>           | <b>68.3</b> | <b>33</b> | <b>2</b>                            | <b>34.15</b>     | <b>51.55</b>          | <b>8.7</b> | <b>M10 × 1.25</b>              | <b>97</b>             |  |
| <b>2<sup>5</sup>/<sub>8</sub></b>   | <b>UEL214-210D1W3</b> | 2.6250             |            |                       |             |           |                                     |                  |                       |            |                                |                       |  |
| <b>2<sup>11</sup>/<sub>16</sub></b> | <b>UEL214-211D1W3</b> | 2.6875             | 4.9213     | 3.374                 | 2.6890      | 1.2992    | 0.079                               | 1.344            | 2.030                 | 0.343      | <b>3</b> / <sub>8</sub> -24UNF | 3.819                 |  |
| <b>2<sup>3</sup>/<sub>4</sub></b>   | <b>UEL214-212D1W3</b> | 2.7500             |            |                       |             |           |                                     |                  |                       |            |                                |                       |  |
| <b>75</b>                           | <b>UEL215D1W3</b>     | <b>75</b>          | <b>130</b> | <b>92</b>             | <b>74.6</b> | <b>34</b> | <b>2</b>                            | <b>37.3</b>      | <b>54.7</b>           | <b>8.7</b> | <b>M10 × 1.25</b>              | <b>102</b>            |  |
| <b>2<sup>13</sup>/<sub>16</sub></b> | <b>UEL215-213D1W3</b> | 2.8125             |            |                       |             |           |                                     |                  |                       |            |                                |                       |  |
| <b>2<sup>7</sup>/<sub>8</sub></b>   | <b>UEL215-214D1W3</b> | 2.8750             | 5.1181     | 3.622                 | 2.9370      | 1.3386    | 0.079                               | 1.469            | 2.154                 | 0.343      | <b>3</b> / <sub>8</sub> -24UNF | 4.016                 |  |
| <b>2<sup>15</sup>/<sub>16</sub></b> | <b>UEL215-215D1W3</b> | 2.9375             |            |                       |             |           |                                     |                  |                       |            |                                |                       |  |
| <b>3</b>                            | <b>UEL215-300D1W3</b> | 3.0000             |            |                       |             |           |                                     |                  |                       |            |                                |                       |  |

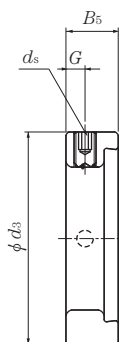
Remarks: 1) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.



Standard: Seal + Slinger

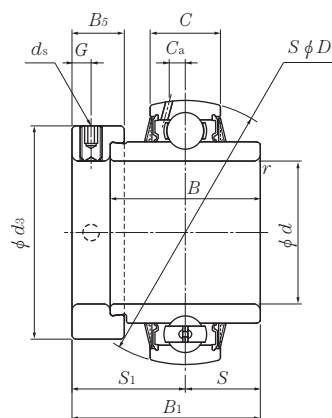
Triple Sealed Bearing  
UELxxxD1LLJW3

Example : UEL205D1LLJW3

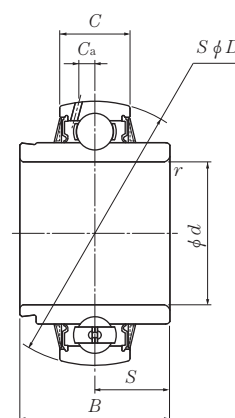
Eccentric locking collar  
ELxxW3

| Nominal dimensions |       | Basic load ratings    |                           | Factor <sup>1)</sup> | Mass (approx.) |
|--------------------|-------|-----------------------|---------------------------|----------------------|----------------|
| mm                 | inch  | N<br>dynamic<br>$C_r$ | lbf<br>static<br>$C_{or}$ |                      | kg lb          |
| $B_5$              | $C_a$ |                       |                           | $f_0$                |                |
| 20.7               | 6.5   | 43 500                | 29 200                    | 14.3                 | 1.32           |
|                    |       |                       |                           |                      | 3.28           |
| 0.815              | 0.256 | 9 750                 | 6 550                     |                      | 3.12           |
|                    |       |                       |                           |                      | 3.02           |
|                    |       |                       |                           |                      | 2.90           |
| 22.3               | 7.3   | 52 500                | 36 000                    | 14.3                 | 1.79           |
|                    |       |                       |                           |                      | 4.38           |
| 0.878              | 0.287 | 11 800                | 8 150                     |                      | 4.22           |
|                    |       |                       |                           |                      | 4.05           |
|                    |       |                       |                           |                      | 3.88           |
| 23.8               | 7.3   | 57 500                | 40 000                    | 14.4                 | 2.54           |
| 0.937              | 0.287 | 12 900                | 9 000                     |                      | 5.47           |
|                    |       |                       |                           |                      | 5.30           |
| 23.8               | 7.7   | 62 000                | 44 000                    | 14.5                 | 2.47           |
|                    |       |                       |                           |                      | 5.67           |
| 0.937              | 0.303 | 14 000                | 9 900                     |                      | 5.45           |
|                    |       |                       |                           |                      | 5.18           |
| 23.8               | 8     | 66 000                | 49 500                    | 14.7                 | 2.68           |
|                    |       |                       |                           |                      | 6.39           |
| 0.937              | 0.315 | 14 900                | 11 100                    |                      | 6.15           |
|                    |       |                       |                           |                      | 5.91           |
|                    |       |                       |                           |                      | 5.60           |

# Ball bearings Eccentric locking collar type



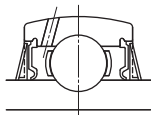
Eccentric locking collar + bearing  
UELxxxD1W3



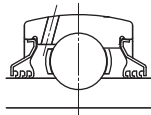
Eccentric locking collar type  
ULxxxD1

| Shaft<br>dia.   | Bearing number        | Nominal dimensions |            |                       |             |           |                                                 |                              |                       |            |                       |                       |
|-----------------|-----------------------|--------------------|------------|-----------------------|-------------|-----------|-------------------------------------------------|------------------------------|-----------------------|------------|-----------------------|-----------------------|
|                 |                       | <i>d</i>           | <i>D</i>   | <i>B</i> <sub>1</sub> | <i>B</i>    | <i>C</i>  | <div>mm<br/><i>r</i><sub>s</sub><br/>min.</div> | <div>inch<br/><i>S</i></div> | <i>S</i> <sub>1</sub> | <i>G</i>   | <i>ds</i>             | <i>d</i> <sub>3</sub> |
| <b>25</b>       | <b>UEL305D1W3</b>     | <b>25</b>          | <b>62</b>  | <b>46.8</b>           | <b>34.9</b> | <b>20</b> | <b>1.5</b>                                      | <b>16.7</b>                  | <b>30.1</b>           | <b>6</b>   | <b>M8 × 1</b>         | <b>42.8</b>           |
| $\frac{13}{16}$ | <b>UEL305-013D1W3</b> | 0.8125             |            |                       |             |           |                                                 |                              |                       |            |                       |                       |
| $\frac{7}{8}$   | <b>UEL305-014D1W3</b> | 0.8750             | 2.4409     | 1.843                 | 1.3740      | 0.7874    | 0.059                                           | 0.657                        | 1.185                 | 0.236      | $\frac{5}{16}$ -24UNF | 1.685                 |
| $\frac{15}{16}$ | <b>UEL305-015D1W3</b> | 0.9375             |            |                       |             |           |                                                 |                              |                       |            |                       |                       |
| <b>1</b>        | <b>UEL305-100D1W3</b> | 1.0000             |            |                       |             |           |                                                 |                              |                       |            |                       |                       |
| <b>30</b>       | <b>UEL306D1W3</b>     | <b>30</b>          | <b>72</b>  | <b>50</b>             | <b>36.5</b> | <b>23</b> | <b>1.5</b>                                      | <b>17.5</b>                  | <b>32.5</b>           | <b>6.7</b> | <b>M8 × 1</b>         | <b>50</b>             |
| $\frac{1}{16}$  | <b>UEL306-101D1W3</b> | 1.0625             |            |                       |             |           |                                                 |                              |                       |            |                       |                       |
| $\frac{1}{8}$   | <b>UEL306-102D1W3</b> | 1.1250             | 2.8346     | 1.969                 | 1.4370      | 0.9055    | 0.059                                           | 0.689                        | 1.280                 | 0.264      | $\frac{5}{16}$ -24UNF | 1.969                 |
| $\frac{3}{16}$  | <b>UEL306-103D1W3</b> | 1.1875             |            |                       |             |           |                                                 |                              |                       |            |                       |                       |
| <b>35</b>       | <b>UEL307D1W3</b>     | <b>35</b>          | <b>80</b>  | <b>51.6</b>           | <b>38.1</b> | <b>25</b> | <b>2</b>                                        | <b>18.3</b>                  | <b>33.3</b>           | <b>6.7</b> | <b>M8 × 1</b>         | <b>55</b>             |
| $\frac{1}{4}$   | <b>UEL307-104D1W3</b> | 1.2500             |            |                       |             |           |                                                 |                              |                       |            |                       |                       |
| $\frac{5}{16}$  | <b>UEL307-105D1W3</b> | 1.3125             | 3.1496     | 2.031                 | 1.5000      | 0.9843    | 0.079                                           | 0.720                        | 1.311                 | 0.264      | $\frac{5}{16}$ -24UNF | 2.165                 |
| $\frac{3}{8}$   | <b>UEL307-106D1W3</b> | 1.3750             |            |                       |             |           |                                                 |                              |                       |            |                       |                       |
| $\frac{7}{16}$  | <b>UEL307-107D1W3</b> | 1.4375             |            |                       |             |           |                                                 |                              |                       |            |                       |                       |
| <b>40</b>       | <b>UEL308D1W3</b>     | <b>40</b>          | <b>90</b>  | <b>57.1</b>           | <b>41.3</b> | <b>27</b> | <b>2</b>                                        | <b>19.8</b>                  | <b>37.3</b>           | <b>8</b>   | <b>M10 × 1.25</b>     | <b>63.5</b>           |
| $\frac{1}{2}$   | <b>UEL308-108D1W3</b> | 1.5000             | 3.5433     | 2.248                 | 1.6260      | 1.0630    | 0.079                                           | 0.780                        | 1.469                 | 0.315      | $\frac{3}{8}$ -24UNF  | 2.500                 |
| $\frac{9}{16}$  | <b>UEL308-109D1W3</b> | 1.5625             |            |                       |             |           |                                                 |                              |                       |            |                       |                       |
| <b>45</b>       | <b>UEL309D1W3</b>     | <b>45</b>          | <b>100</b> | <b>58.7</b>           | <b>42.9</b> | <b>29</b> | <b>2</b>                                        | <b>19.8</b>                  | <b>38.9</b>           | <b>8</b>   | <b>M10 × 1.25</b>     | <b>70</b>             |
| $\frac{5}{8}$   | <b>UEL309-110D1W3</b> | 1.6250             |            |                       |             |           |                                                 |                              |                       |            |                       |                       |
| $\frac{11}{16}$ | <b>UEL309-111D1W3</b> | 1.6875             | 3.9370     | 2.311                 | 1.6890      | 1.1417    | 0.079                                           | 0.780                        | 1.531                 | 0.315      | $\frac{3}{8}$ -24UNF  | 2.756                 |
| $\frac{3}{4}$   | <b>UEL309-112D1W3</b> | 1.7500             |            |                       |             |           |                                                 |                              |                       |            |                       |                       |
| <b>50</b>       | <b>UEL310D1W3</b>     | <b>50</b>          | <b>110</b> | <b>66.6</b>           | <b>49.2</b> | <b>32</b> | <b>2.5</b>                                      | <b>24.6</b>                  | <b>42</b>             | <b>8.7</b> | <b>M10 × 1.25</b>     | <b>76.2</b>           |
| $\frac{13}{16}$ | <b>UEL310-113D1W3</b> | 1.8125             |            |                       |             |           |                                                 |                              |                       |            |                       |                       |
| $\frac{1}{8}$   | <b>UEL310-114D1W3</b> | 1.8750             | 4.3307     | 2.622                 | 1.9370      | 1.2598    | 0.098                                           | 0.969                        | 1.654                 | 0.343      | $\frac{3}{8}$ -24UNF  | 3.000                 |
| $\frac{15}{16}$ | <b>UEL310-115D1W3</b> | 1.9375             |            |                       |             |           |                                                 |                              |                       |            |                       |                       |
| <b>55</b>       | <b>UEL311D1W3</b>     | <b>55</b>          | <b>120</b> | <b>73</b>             | <b>55.6</b> | <b>34</b> | <b>2.5</b>                                      | <b>27.8</b>                  | <b>45.2</b>           | <b>8.7</b> | <b>M10 × 1.25</b>     | <b>83</b>             |
| <b>2</b>        | <b>UEL311-200D1W3</b> | 2.0000             |            |                       |             |           |                                                 |                              |                       |            |                       |                       |
| $\frac{2}{16}$  | <b>UEL311-201D1W3</b> | 2.0625             | 4.7244     | 2.874                 | 2.1890      | 1.3386    | 0.098                                           | 1.094                        | 1.780                 | 0.343      | $\frac{3}{8}$ -24UNF  | 3.268                 |
| $\frac{2}{8}$   | <b>UEL311-202D1W3</b> | 2.1250             |            |                       |             |           |                                                 |                              |                       |            |                       |                       |
| $\frac{2}{16}$  | <b>UEL311-203D1W3</b> | 2.1875             |            |                       |             |           |                                                 |                              |                       |            |                       |                       |

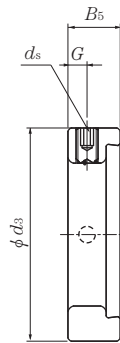
Remarks: 1) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.



Standard: Seal + Slinger

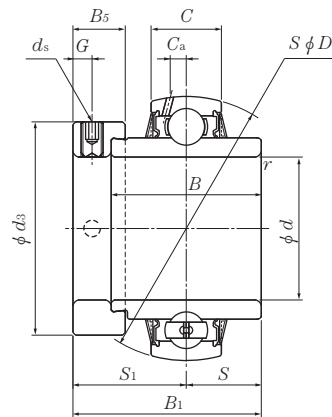
Triple Sealed Bearing  
UELxxxD1LLJW3

Example : UEL305D1LLJW3

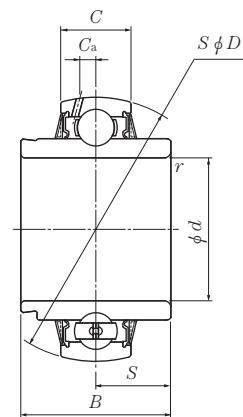
Eccentric locking collar  
ELxxW3

| Nominal dimensions |       | Basic load ratings    |                           | Factor <sup>1)</sup> | Mass (approx.) |
|--------------------|-------|-----------------------|---------------------------|----------------------|----------------|
| mm                 | inch  | N<br>dynamic<br>$C_r$ | lbf<br>static<br>$C_{or}$ |                      | kg lb          |
| $B_5$              | $C_a$ |                       |                           | $f_0$                |                |
| 15.9               | 5.0   | 21 200                | 10 900                    | 12.6                 | 0.43           |
|                    |       |                       |                           |                      | 1.09           |
| 0.626              | 0.197 | 4 750                 | 2 460                     |                      | 1.05           |
|                    |       |                       |                           |                      | 1.01           |
|                    |       |                       |                           |                      | 0.96           |
| 17.5               | 5.6   | 26 700                | 15 000                    | 13.3                 | 0.69           |
|                    |       |                       |                           |                      | 1.57           |
| 0.689              | 0.220 | 6 000                 | 3 400                     |                      | 1.51           |
|                    |       |                       |                           |                      | 1.45           |
| 17.5               | 5.7   | 33 500                | 19 100                    | 13.1                 | 0.78           |
|                    |       |                       |                           |                      | 1.92           |
| 0.689              | 0.224 | 7 500                 | 4 300                     |                      | 1.84           |
|                    |       |                       |                           |                      | 1.77           |
|                    |       |                       |                           |                      | 1.69           |
| 20.6               | 6.1   | 40 500                | 24 000                    | 13.2                 | 1.10           |
|                    |       |                       |                           |                      | 2.58           |
| 0.811              | 0.240 | 9 150                 | 5 400                     |                      | 2.49           |
|                    |       |                       |                           |                      |                |
| 20.6               | 7.1   | 53 000                | 32 000                    | 13.1                 | 1.40           |
|                    |       |                       |                           |                      | 3.36           |
| 0.811              | 0.280 | 11 900                | 7 200                     |                      | 3.26           |
|                    |       |                       |                           |                      | 3.15           |
| 22.2               | 7.9   | 62 000                | 38 500                    | 13.2                 | 1.84           |
|                    |       |                       |                           |                      | 4.40           |
| 0.874              | 0.311 | 13 900                | 8 600                     |                      | 4.29           |
|                    |       |                       |                           |                      | 4.15           |
| 22.2               | 8.5   | 71 500                | 45 000                    | 13.2                 | 2.36           |
|                    |       |                       |                           |                      | 5.58           |
| 0.874              | 0.335 | 16 100                | 10 100                    |                      | 5.39           |
|                    |       |                       |                           |                      | 5.25           |
|                    |       |                       |                           |                      | 5.08           |

# Ball bearings Eccentric locking collar type



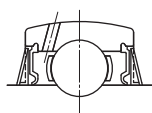
Eccentric locking collar + bearing  
UELxxxD1W3



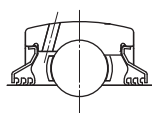
Eccentric locking collar type  
ULxxxD1

| Shaft<br>dia. | Bearing number        | Nominal dimensions |            |                       |             |           |                                     |                  |                       |             |                   |                       |  |
|---------------|-----------------------|--------------------|------------|-----------------------|-------------|-----------|-------------------------------------|------------------|-----------------------|-------------|-------------------|-----------------------|--|
|               |                       | <i>d</i>           | <i>D</i>   | <i>B</i> <sub>1</sub> | <i>B</i>    | <i>C</i>  | <i>r</i> <sub>s</sub><br>mm<br>min. | <i>S</i><br>inch | <i>S</i> <sub>1</sub> | <i>G</i>    | <i>ds</i>         | <i>d</i> <sub>3</sub> |  |
| <b>60</b>     | <b>UEL312D1W3</b>     | <b>60</b>          | <b>130</b> | <b>79.4</b>           | <b>61.9</b> | <b>36</b> | <b>2.5</b>                          | <b>30.95</b>     | <b>48.45</b>          | <b>8.7</b>  | <b>M10 × 1.25</b> | <b>89</b>             |  |
| <b>2¼</b>     | <b>UEL312-204D1W3</b> | 2.2500             |            |                       |             |           |                                     |                  |                       |             |                   |                       |  |
| <b>2⅝</b>     | <b>UEL312-205D1W3</b> | 2.3125             | 5.1181     | 3.126                 | 2.4370      | 1.4173    | 0.098                               | 1.219            | 1.907                 | 0.343       | ⅜-24UNF           | 3.504                 |  |
| <b>2⅜</b>     | <b>UEL312-206D1W3</b> | 2.3750             |            |                       |             |           |                                     |                  |                       |             |                   |                       |  |
| <b>2⅞</b>     | <b>UEL312-207D1W3</b> | 2.4375             |            |                       |             |           |                                     |                  |                       |             |                   |                       |  |
| <b>65</b>     | <b>UEL313D1W3</b>     | <b>65</b>          | <b>140</b> | <b>85.7</b>           | <b>65.1</b> | <b>39</b> | <b>2.5</b>                          | <b>32.55</b>     | <b>53.15</b>          | <b>10.3</b> | <b>M12 × 1.5</b>  | <b>97</b>             |  |
| <b>2½</b>     | <b>UEL313-208D1W3</b> | 2.5000             | 5.5118     | 3.374                 | 2.5630      | 1.5354    | 0.098                               | 1.281            | 2.093                 | 0.406       | ½-20UNF           | 3.819                 |  |
| <b>2⅞</b>     | <b>UEL313-209D1W3</b> | 2.5625             |            |                       |             |           |                                     |                  |                       |             |                   |                       |  |
| <b>70</b>     | <b>UEL314D1W3</b>     | <b>70</b>          | <b>150</b> | <b>92.1</b>           | <b>68.3</b> | <b>41</b> | <b>2.5</b>                          | <b>34.15</b>     | <b>57.95</b>          | <b>10.3</b> | <b>M12 × 1.5</b>  | <b>102</b>            |  |
| <b>2⅝</b>     | <b>UEL314-210D1W3</b> | 2.6250             |            |                       |             |           |                                     |                  |                       |             |                   |                       |  |
| <b>2⅞</b>     | <b>UEL314-211D1W3</b> | 2.6875             | 5.9055     | 3.626                 | 2.6890      | 1.6142    | 0.098                               | 1.344            | 2.281                 | 0.406       | ½-20UNF           | 4.016                 |  |
| <b>2¾</b>     | <b>UEL314-212D1W3</b> | 2.7500             |            |                       |             |           |                                     |                  |                       |             |                   |                       |  |
| <b>75</b>     | <b>UEL315D1W3</b>     | <b>75</b>          | <b>160</b> | <b>100</b>            | <b>74.6</b> | <b>43</b> | <b>2.5</b>                          | <b>37.3</b>      | <b>62.7</b>           | <b>12.7</b> | <b>M16 × 1.5</b>  | <b>113</b>            |  |
| <b>2⅜</b>     | <b>UEL315-213D1W3</b> | 2.8125             |            |                       |             |           |                                     |                  |                       |             |                   |                       |  |
| <b>2⅞</b>     | <b>UEL315-214D1W3</b> | 2.8750             | 6.2992     | 3.937                 | 2.9370      | 1.6929    | 0.098                               | 1.469            | 2.469                 | 0.500       | ⅝-18UNF           | 4.449                 |  |
| <b>2⅞</b>     | <b>UEL315-215D1W3</b> | 2.9375             |            |                       |             |           |                                     |                  |                       |             |                   |                       |  |
| <b>3</b>      | <b>UEL315-300D1W3</b> | 3.0000             |            |                       |             |           |                                     |                  |                       |             |                   |                       |  |
| <b>80</b>     | <b>UEL316D1W3</b>     | <b>80</b>          | <b>170</b> | <b>106.4</b>          | <b>81</b>   | <b>45</b> | <b>2.5</b>                          | <b>40.5</b>      | <b>65.9</b>           | <b>12.7</b> | <b>M16 × 1.5</b>  | <b>119</b>            |  |
| <b>3⅞</b>     | <b>UEL316-301D1W3</b> | 3.0625             |            |                       |             |           |                                     |                  |                       |             |                   |                       |  |
| <b>3⅞</b>     | <b>UEL316-302D1W3</b> | 3.1250             | 6.6929     | 4.189                 | 3.1890      | 1.7717    | 0.098                               | 1.594            | 2.594                 | 0.500       | ⅝-18UNF           | 4.685                 |  |
| <b>3⅞</b>     | <b>UEL316-303D1W3</b> | 3.1875             |            |                       |             |           |                                     |                  |                       |             |                   |                       |  |
| <b>85</b>     | <b>UEL317D1W3</b>     | <b>85</b>          | <b>180</b> | <b>109.5</b>          | <b>84.1</b> | <b>47</b> | <b>3</b>                            | <b>42.05</b>     | <b>67.45</b>          | <b>12.7</b> | <b>M16 × 1.5</b>  | <b>127</b>            |  |
| <b>3¼</b>     | <b>UEL317-304D1W3</b> | 3.2500             |            |                       |             |           |                                     |                  |                       |             |                   |                       |  |
| <b>3⅞</b>     | <b>UEL317-305D1W3</b> | 3.3125             | 7.0866     | 4.311                 | 3.3110      | 1.8504    | 0.118                               | 1.656            | 2.656                 | 0.500       | ⅝-18UNF           | 5.000                 |  |
| <b>3⅞</b>     | <b>UEL317-307D1W3</b> | 3.4375             |            |                       |             |           |                                     |                  |                       |             |                   |                       |  |
| <b>90</b>     | <b>UEL318D1W3</b>     | <b>90</b>          | <b>190</b> | <b>115.9</b>          | <b>87.3</b> | <b>49</b> | <b>3</b>                            | <b>43.65</b>     | <b>72.25</b>          | <b>14.3</b> | <b>M20 × 1.5</b>  | <b>133</b>            |  |
| <b>3⅞</b>     | <b>UEL318-307D1W3</b> | 3.4375             | 7.4803     | 4.563                 | 3.4370      | 1.9291    | 0.118                               | 1.719            | 2.844                 | 0.563       | ¾-16UNF           | 5.236                 |  |
| <b>3½</b>     | <b>UEL318-308D1W3</b> | 3.5000             |            |                       |             |           |                                     |                  |                       |             |                   |                       |  |
| <b>95</b>     | <b>UEL319D1W3</b>     | <b>95</b>          | <b>200</b> | <b>122.3</b>          | <b>93.7</b> | <b>51</b> | <b>3</b>                            | <b>38.9</b>      | <b>83.4</b>           | <b>14.3</b> | <b>M20 × 1.5</b>  | <b>140</b>            |  |
| <b>3⅝</b>     | <b>UEL319-310D1W3</b> | 3.6250             |            |                       |             |           |                                     |                  |                       |             |                   |                       |  |
| <b>3⅞</b>     | <b>UEL319-311D1W3</b> | 3.6875             | 7.8740     | 4.815                 | 3.6890      | 2.0079    | 0.118                               | 1.531            | 3.283                 | 0.563       | ¾-16UNF           | 5.512                 |  |
| <b>3¾</b>     | <b>UEL319-312D1W3</b> | 3.7500             |            |                       |             |           |                                     |                  |                       |             |                   |                       |  |

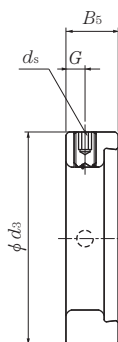
Remarks: 1) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.



Standard: Seal + Slinger

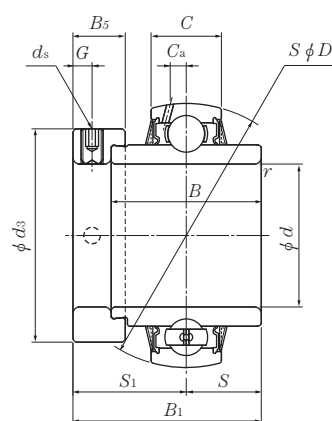
Triple Sealed Bearing  
UELxxxD1LLJW3

Example : UEL305D1LLJW3

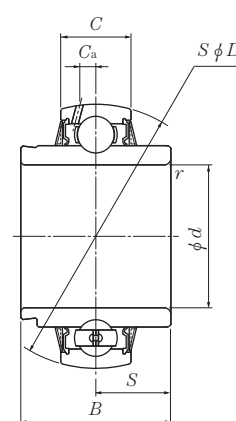
Eccentric locking collar  
ELxxW3

| Nominal dimensions |       | Basic load ratings    |                           | Factor <sup>1)</sup> | Mass (approx.) |
|--------------------|-------|-----------------------|---------------------------|----------------------|----------------|
| mm                 | inch  | N<br>dynamic<br>$C_r$ | lbf<br>static<br>$C_{or}$ |                      | kg lb          |
| $B_5$              | $C_a$ |                       |                           | $f_0$                |                |
| 23.9               | 9.0   | 82 000                | 52 000                    | 13.2                 | 2.94           |
|                    |       |                       |                           |                      | 6.80           |
| 0.941              | 0.354 | 18 400                | 11 700                    |                      | 6.65           |
|                    |       |                       |                           |                      | 6.48           |
|                    |       |                       |                           |                      | 6.19           |
| 27                 | 9.4   | 92 500                | 60 000                    | 13.2                 | 3.67           |
| 1.063              | 0.370 | 20 800                | 13 400                    |                      | 8.49           |
|                    |       |                       |                           |                      | 8.27           |
| 30.2               | 10    | 104 000               | 68 000                    | 13.2                 | 4.40           |
| 1.189              | 0.394 | 23 400                | 15 300                    |                      | 10.4           |
|                    |       |                       |                           |                      | 10.2           |
|                    |       |                       |                           |                      | 9.96           |
| 31.8               | 10.5  | 113 000               | 77 000                    | 13.2                 | 5.34           |
|                    |       |                       |                           |                      | 13.2           |
| 1.252              | 0.413 | 25 500                | 17 400                    |                      | 12.9           |
|                    |       |                       |                           |                      | 12.7           |
|                    |       |                       |                           |                      | 12.5           |
| 31.8               | 11.1  | 123 000               | 86 500                    | 13.3                 | 6.70           |
|                    |       |                       |                           |                      | 14.9           |
| 1.252              | 0.437 | 27 600                | 19 500                    |                      | 14.8           |
|                    |       |                       |                           |                      | 14.6           |
| 31.8               | 11.5  | 133 000               | 97 000                    | 13.3                 | 8.00           |
|                    |       |                       |                           |                      | 18.0           |
| 1.252              | 0.453 | 29 800                | 21 800                    |                      | 17.7           |
|                    |       |                       |                           |                      | 17.0           |
| 36.5               | 12.2  | 143 000               | 107 000                   | 13.3                 | 9.10           |
| 1.437              | 0.480 | 32 000                | 24 100                    |                      | 20.7           |
|                    |       |                       |                           |                      | 20.2           |
| 36.5               | 12.7  | 153 000               | 119 000                   | 13.3                 | 10.4           |
|                    |       |                       |                           |                      | 23.4           |
| 1.437              | 0.500 | 34 500                | 26 600                    |                      | 23.0           |
|                    |       |                       |                           |                      | 22.6           |

# Ball bearings Eccentric locking collar type



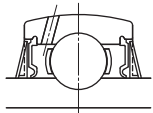
Eccentric locking collar + bearing  
UELxxxD1W3



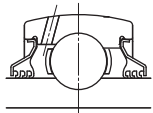
Eccentric locking collar type  
ULxxxD1

| Shaft<br>dia.                                                                                                   | Bearing number                                                                     | Nominal dimensions                          |          |                       |          |          |                                     |                  |                       |          |           |                       |  |
|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------|----------|-----------------------|----------|----------|-------------------------------------|------------------|-----------------------|----------|-----------|-----------------------|--|
|                                                                                                                 |                                                                                    | <i>d</i>                                    | <i>D</i> | <i>B</i> <sub>1</sub> | <i>B</i> | <i>C</i> | <i>r</i> <sub>s</sub><br>mm<br>min. | <i>S</i><br>inch | <i>S</i> <sub>1</sub> | <i>G</i> | <i>ds</i> | <i>d</i> <sub>3</sub> |  |
| 100<br>3 <sup>13</sup> / <sub>16</sub><br>3 <sup>7</sup> / <sub>8</sub><br>3 <sup>15</sup> / <sub>16</sub><br>4 | UEL320D1W3<br>UEL320-313D1W3<br>UEL320-314D1W3<br>UEL320-315D1W3<br>UEL320-400D1W3 | 100<br>3.8125<br>3.8750<br>3.9375<br>4.0000 | 215      | 128.6                 | 100      | 55       | 3                                   | 50               | 78.6                  | 14.3     | M20 × 1.5 | 146                   |  |
| 105                                                                                                             | UEL321D1W3                                                                         | 105                                         | 225      | 139.7                 | 104.8    | 57       | 3                                   | 48.4             | 91.3                  | 17.5     | M20 × 1.5 | 157                   |  |
| 110                                                                                                             | UEL322D1W3                                                                         | 110                                         | 240      | 141.3                 | 106.4    | 59       | 3                                   | 49.2             | 92.1                  | 17.5     | M20 × 1.5 | 168                   |  |

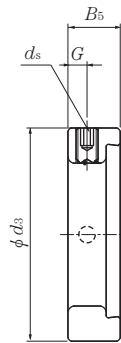
Remarks: 1) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.



Standard: Seal + Slinger

Triple Sealed Bearing  
UELxxxD1LLJW3

Example : UEL305D1LLJW3

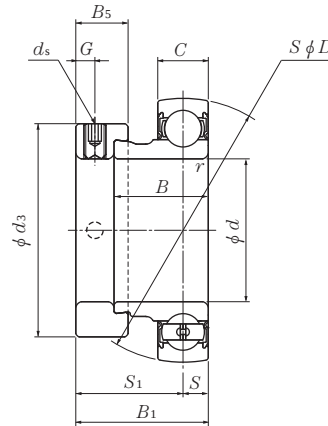
Eccentric locking collar  
ELxxW3

| Nominal dimensions |       | Basic load ratings    |                           | Factor <sup>1)</sup> | Mass (approx.)       |
|--------------------|-------|-----------------------|---------------------------|----------------------|----------------------|
| mm                 | inch  | N<br>dynamic<br>$C_r$ | lbf<br>static<br>$C_{or}$ |                      | kg lb                |
| $B_5$              | $C_a$ |                       |                           | $f_0$                |                      |
| 36.5               | 14    | 173 000               | 141 000                   |                      | 13.0<br>28.5         |
| 1.437              | 0.551 | 39 000                | 31 500                    | 13.2                 | 28.0<br>27.6<br>27.0 |
| 42.8               | 14.6  | 184 000               | 153 000                   | 13.2                 | 14.6                 |
| 42.8               | 15.6  | 205 000               | 179 000                   | 13.1                 | 17.2                 |

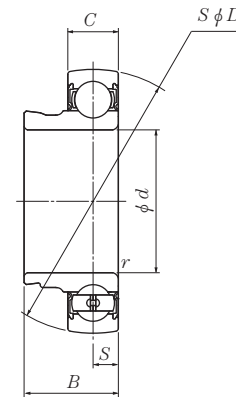


# Ball bearings

## Eccentric locking collar type



Eccentric locking collar + bearing  
AEL2xxW3

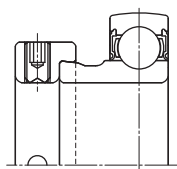


Bearing  
Maintenance free type : AL2xx  
Relubricatable : AL2xxD1

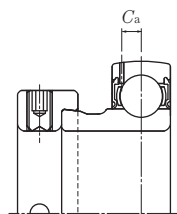
| Shaft<br>dia.<br><br>mm<br>inch          | Bearing number <sup>1)</sup>                                             | Nominal dimensions                         |              |                       |                |              |                                     |                  |                       |              |                         |                       |  |
|------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------|--------------|-----------------------|----------------|--------------|-------------------------------------|------------------|-----------------------|--------------|-------------------------|-----------------------|--|
|                                          |                                                                          | <i>d</i>                                   | <i>D</i>     | <i>B</i> <sub>1</sub> | <i>B</i>       | <i>C</i>     | <i>r</i> <sub>s</sub><br>mm<br>min. | <i>S</i><br>inch | <i>S</i> <sub>1</sub> | <i>G</i>     | <i>d</i> <sub>s</sub>   | <i>d</i> <sub>3</sub> |  |
| 12<br>½                                  | AEL201W3<br>AEL201-008W3                                                 | 12<br>0.5000                               | 40<br>1.5748 | 28.6<br>1.126         | 19<br>0.7480   | 12<br>0.4724 | 0.6<br>0.024                        | 6.5<br>0.256     | 22.1<br>0.870         | 4.8<br>0.189 | M6 × 0.75<br>¼-28UNF    | 29<br>1.142           |  |
| 15<br>9/16<br>5/8                        | AEL202W3<br>AEL202-009W3<br>AEL202-010W3                                 | 15<br>0.5625<br>0.6250                     | 40<br>1.5748 | 28.6<br>1.126         | 19<br>0.7480   | 12<br>0.4724 | 0.6<br>0.024                        | 6.5<br>0.256     | 22.1<br>0.870         | 4.8<br>0.189 | M6 × 0.75<br>¼-28UNF    | 29<br>1.142           |  |
| 17<br>1 1/16                             | AEL203W3<br>AEL203-011W3                                                 | 17<br>0.6875                               | 40<br>1.5748 | 28.6<br>1.126         | 19<br>0.7480   | 12<br>0.4724 | 0.6<br>0.024                        | 6.5<br>0.256     | 22.1<br>0.870         | 4.8<br>0.189 | M6 × 0.75<br>¼-28UNF    | 29<br>1.142           |  |
| 20<br>¾                                  | AEL204W3<br>AEL204-012W3                                                 | 20<br>0.7500                               | 47<br>1.8504 | 31<br>1.220           | 21.5<br>0.8465 | 14<br>0.5512 | 1<br>0.039                          | 7.5<br>0.295     | 23.5<br>0.925         | 4.8<br>0.189 | M6 × 0.75<br>¼-28UNF    | 33<br>1.299           |  |
| 25<br>1 3/16<br>7/8<br>1 5/16<br>1       | AEL205W3<br>AEL205-013W3<br>AEL205-014W3<br>AEL205-015W3<br>AEL205-100W3 | 25<br>0.8125<br>0.8750<br>0.9375<br>1.0000 | 52<br>2.0472 | 31<br>1.220           | 21.5<br>0.8465 | 15<br>0.5906 | 1<br>0.039                          | 7.5<br>0.295     | 23.5<br>0.925         | 4.8<br>0.189 | M6 × 0.75<br>¼-28UNF    | 38<br>1.496           |  |
| 30<br>1 1/16<br>1 1/8<br>1 3/16<br>1 1/4 | AEL206W3<br>AEL206-101W3<br>AEL206-102W3<br>AEL206-103W3<br>AEL206-104W3 | 30<br>1.0625<br>1.1250<br>1.1875<br>1.2500 | 62<br>2.4409 | 35.7<br>1.406         | 23.8<br>0.9370 | 16<br>0.6299 | 1<br>0.039                          | 9<br>0.354       | 26.7<br>1.051         | 6<br>0.236   | M8 × 1<br>5/16-24UNF    | 44.5<br>1.752         |  |
| 35<br>1 1/4<br>1 5/16<br>1 3/8<br>1 7/16 | AEL207W3<br>AEL207-104W3<br>AEL207-105W3<br>AEL207-106W3<br>AEL207-107W3 | 35<br>1.2500<br>1.3125<br>1.3750<br>1.4375 | 72<br>2.8346 | 38.9<br>1.531         | 25.4<br>1.0000 | 17<br>0.6693 | 1.5<br>0.059                        | 9.5<br>0.374     | 29.4<br>1.157         | 6.8<br>0.268 | M10 × 1.25<br>3/8-24UNF | 55.5<br>2.185         |  |
| 40<br>1 1/2<br>1 9/16                    | AEL208W3<br>AEL208-108W3<br>AEL208-109W3                                 | 40<br>1.5000<br>1.5625                     | 80<br>3.1496 | 43.7<br>1.720         | 30.2<br>1.1890 | 18<br>0.7087 | 1.5<br>0.059                        | 11<br>0.433      | 32.7<br>1.287         | 6.8<br>0.268 | M10 × 1.25<br>3/8-24UNF | 60<br>2.362           |  |

Remarks: 1) If relubricatable type is needed, please order with suffix "D1".

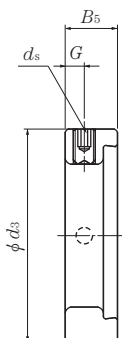
2) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.



Maintenance free type : AEL2xxW3  
Example : AEL205W3



Relubricatable : AEL2xxD1W3  
Example : AEL205D1W3

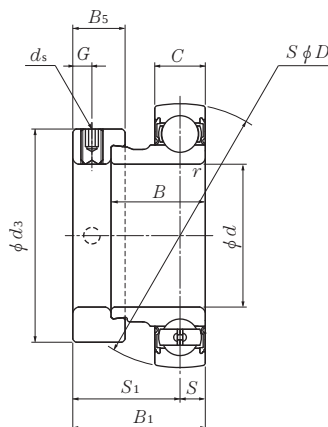


Eccentric locking collar  
EL2xxW3

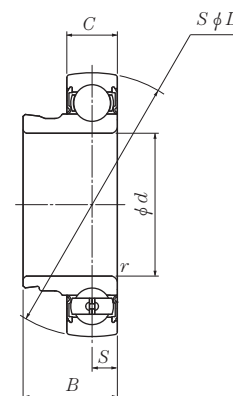
| Nominal dimensions    |                       | Basic load ratings               |        | Factor <sup>2)</sup>             | Mass (approx.)        |
|-----------------------|-----------------------|----------------------------------|--------|----------------------------------|-----------------------|
| mm                    | inch                  | N                                | lbf    |                                  | kg lb                 |
| <i>B</i> <sub>5</sub> | <i>C</i> <sub>a</sub> | dynamic<br><i>C</i> <sub>r</sub> |        | static<br><i>C</i> <sub>or</sub> | <i>f</i> <sub>0</sub> |
| 13.6                  | 3.7                   | 9 600                            | 4 600  | 12.8                             | 0.12                  |
| 0.535                 | 0.146                 | 2 160                            | 1 030  |                                  | 0.26                  |
| 13.6                  | 3.7                   | 9 600                            | 4 600  | 12.8                             | 0.11                  |
| 0.535                 | 0.146                 | 2 160                            | 1 030  |                                  | 0.26<br>0.24          |
| 13.6                  | 3.7                   | 9 600                            | 4 600  | 12.8                             | 0.11                  |
| 0.535                 | 0.146                 | 2 160                            | 1 030  |                                  | 0.23                  |
| 13.5                  | 4.2                   | 12 800                           | 6 650  | 13.2                             | 0.17                  |
| 0.531                 | 0.165                 | 2 890                            | 1 500  |                                  | 0.35                  |
| 13.5                  | 4.0                   | 14 000                           | 7 850  | 13.9                             | 0.22                  |
| 0.531                 | 0.157                 | 3 150                            | 1 770  |                                  | 0.51                  |
|                       |                       |                                  |        |                                  | 0.48                  |
|                       |                       |                                  |        |                                  | 0.45<br>0.42          |
| 15.9                  | 5.1                   | 19 500                           | 11 300 | 13.8                             | 0.31                  |
| 0.626                 | 0.201                 | 4 400                            | 2 540  |                                  | 0.74                  |
|                       |                       |                                  |        |                                  | 0.73                  |
|                       |                       |                                  |        |                                  | 0.66<br>0.61          |
| 17.5                  | 5.6                   | 25 700                           | 15 300 | 13.8                             | 0.50                  |
| 0.689                 | 0.220                 | 5 750                            | 3 450  |                                  | 1.15                  |
|                       |                       |                                  |        |                                  | 1.10                  |
|                       |                       |                                  |        |                                  | 1.04<br>0.98          |
| 18.3                  | 6.1                   | 29 100                           | 17 800 | 14.0                             | 0.66                  |
| 0.720                 | 0.240                 | 6 550                            | 4 000  |                                  | 1.41                  |
|                       |                       |                                  |        |                                  | 1.34                  |

## Ball bearings

### Eccentric locking collar type



Eccentric locking collar + bearing  
AEL2xxW3

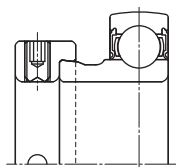


Bearing  
Maintenance free type : AL2xx  
Relubricatable : AL2xxD1

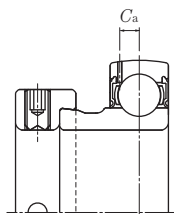
| Shaft<br>dia.                       | Bearing number <sup>1)</sup> | Nominal dimensions |            |                       |             |           |                               |             |                       |            |                       |                       |  |
|-------------------------------------|------------------------------|--------------------|------------|-----------------------|-------------|-----------|-------------------------------|-------------|-----------------------|------------|-----------------------|-----------------------|--|
|                                     |                              | <i>d</i>           | <i>D</i>   | <i>B</i> <sub>1</sub> | <i>B</i>    | <i>C</i>  | mm                            | inch        | <i>S</i> <sub>1</sub> | <i>G</i>   | <i>d</i> <sub>s</sub> | <i>d</i> <sub>3</sub> |  |
|                                     |                              |                    |            |                       |             |           | <i>r</i> <sub>s</sub><br>min. | <i>S</i>    |                       |            |                       |                       |  |
| <b>45</b>                           | <b>AEL209W3</b>              | <b>45</b>          | <b>85</b>  | <b>43.7</b>           | <b>30.2</b> | <b>19</b> | <b>1.5</b>                    | <b>11</b>   | <b>32.7</b>           | <b>6.8</b> | <b>M10 × 1.25</b>     | <b>63.5</b>           |  |
| <b>1<sup>5</sup>/<sub>8</sub></b>   | <b>AEL209-110W3</b>          | 1.6250             |            |                       |             |           |                               |             |                       |            |                       |                       |  |
| <b>1<sup>11</sup>/<sub>16</sub></b> | <b>AEL209-111W3</b>          | 1.6875             | 3.3465     | 1.720                 | 1.1890      | 0.7480    | 0.059                         | 0.433       | 1.287                 | 0.268      | <b>3/8-24UNF</b>      | <b>2.500</b>          |  |
| <b>1<sup>3</sup>/<sub>4</sub></b>   | <b>AEL209-112W3</b>          | 1.7500             |            |                       |             |           |                               |             |                       |            |                       |                       |  |
| <b>50</b>                           | <b>AEL210W3</b>              | <b>50</b>          | <b>90</b>  | <b>43.7</b>           | <b>30.2</b> | <b>20</b> | <b>1.5</b>                    | <b>11</b>   | <b>32.7</b>           | <b>6.8</b> | <b>M10 × 1.25</b>     | <b>69.5</b>           |  |
| <b>1<sup>13</sup>/<sub>16</sub></b> | <b>AEL210-113W3</b>          | 1.8125             |            |                       |             |           |                               |             |                       |            |                       |                       |  |
| <b>1<sup>7</sup>/<sub>8</sub></b>   | <b>AEL210-114W3</b>          | 1.8750             | 3.5433     | 1.720                 | 1.1890      | 0.7874    | 0.059                         | 0.433       | 1.287                 | 0.268      | <b>3/8-24UNF</b>      | <b>2.736</b>          |  |
| <b>1<sup>15</sup>/<sub>16</sub></b> | <b>AEL210-115W3</b>          | 1.9375             |            |                       |             |           |                               |             |                       |            |                       |                       |  |
| <b>2</b>                            | <b>AEL210-200W3</b>          | 2.0000             |            |                       |             |           |                               |             |                       |            |                       |                       |  |
| <b>55</b>                           | <b>AEL211W3</b>              | <b>55</b>          | <b>100</b> | <b>48.4</b>           | <b>32.5</b> | <b>21</b> | <b>2</b>                      | <b>12</b>   | <b>36.4</b>           | <b>8</b>   | <b>M10 × 1.25</b>     | <b>76</b>             |  |
| <b>2</b>                            | <b>AEL211-200W3</b>          | 2.0000             |            |                       |             |           |                               |             |                       |            |                       |                       |  |
| <b>2<sup>1</sup>/<sub>16</sub></b>  | <b>AEL211-201W3</b>          | 2.0625             | 3.9370     | 1.906                 | 1.2795      | 0.8268    | 0.079                         | 0.472       | 1.433                 | 0.315      | <b>3/8-24UNF</b>      | <b>2.992</b>          |  |
| <b>2<sup>1</sup>/<sub>8</sub></b>   | <b>AEL211-202W3</b>          | 2.1250             |            |                       |             |           |                               |             |                       |            |                       |                       |  |
| <b>2<sup>3</sup>/<sub>16</sub></b>  | <b>AEL211-203W3</b>          | 2.1875             |            |                       |             |           |                               |             |                       |            |                       |                       |  |
| <b>60</b>                           | <b>AEL212W3</b>              | <b>60</b>          | <b>110</b> | <b>53.1</b>           | <b>37.2</b> | <b>22</b> | <b>2</b>                      | <b>13.5</b> | <b>39.6</b>           | <b>8</b>   | <b>M10 × 1.25</b>     | <b>84</b>             |  |
| <b>2<sup>1</sup>/<sub>4</sub></b>   | <b>AEL212-204W3</b>          | 2.2500             |            |                       |             |           |                               |             |                       |            |                       |                       |  |
| <b>2<sup>5</sup>/<sub>16</sub></b>  | <b>AEL212-205W3</b>          | 2.3125             | 4.3307     | 2.091                 | 1.4646      | 0.8661    | 0.079                         | 0.531       | 1.559                 | 0.315      | <b>3/8-24UNF</b>      | <b>3.307</b>          |  |
| <b>2<sup>3</sup>/<sub>8</sub></b>   | <b>AEL212-206W3</b>          | 2.3750             |            |                       |             |           |                               |             |                       |            |                       |                       |  |
| <b>2<sup>7</sup>/<sub>16</sub></b>  | <b>AEL212-207W3</b>          | 2.4375             |            |                       |             |           |                               |             |                       |            |                       |                       |  |

Remarks: 1) If relubricatable type is needed, please order with suffix "D1".

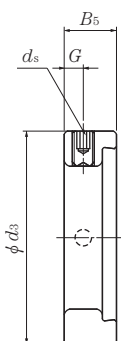
2) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.



Maintenance free type : AEL2xxW3  
Example : AEL205W3



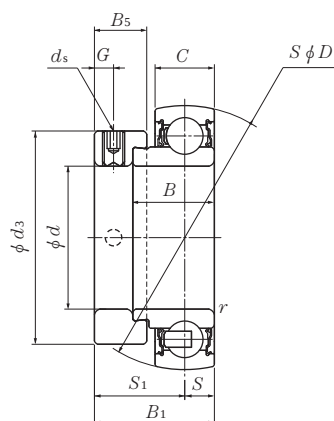
Relubricatable : AEL2xxD1W3  
Example : AEL205D1W3



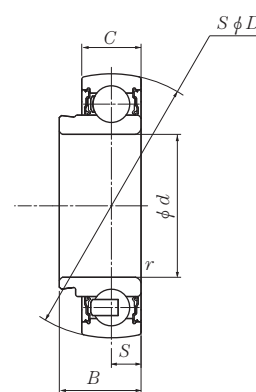
Eccentric locking collar  
EL2xxW3

| Nominal dimensions |       | Basic load ratings |        | Factor <sup>2)</sup> | Mass (approx.) |
|--------------------|-------|--------------------|--------|----------------------|----------------|
| mm                 | inch  | N                  | lbf    |                      | kg lb          |
| $B_5$              | $C_a$ | dynamic            | $C_r$  | static               | $f_0$          |
| 18.3               | 6.3   | 32 500             | 20 400 | 14.1                 | 0.72           |
|                    |       |                    |        |                      | 1.79           |
| 0.720              | 0.248 | 7 350              | 4 600  |                      | 1.70           |
|                    |       |                    |        |                      | 1.61           |
| 18.3               | 6.4   | 35 000             | 23 200 | 14.4                 | 0.72           |
|                    |       |                    |        |                      | 1.81           |
| 0.720              | 0.252 | 7 900              | 5 200  |                      | 1.72           |
|                    |       |                    |        |                      | 1.63           |
|                    |       |                    |        |                      | 1.54           |
| 20.7               | 7.0   | 43 500             | 29 200 | 14.3                 | 0.98           |
|                    |       |                    |        |                      | 2.45           |
| 0.815              | 0.276 | 9 750              | 6 550  |                      | 2.34           |
|                    |       |                    |        |                      | 2.23           |
|                    |       |                    |        |                      | 2.12           |
| 22.3               | 7.5   | 52 500             | 36 000 | 14.3                 | 1.31           |
|                    |       |                    |        |                      | 3.13           |
| 0.878              | 0.295 | 11 800             | 8 150  |                      | 3.00           |
|                    |       |                    |        |                      | 2.87           |
|                    |       |                    |        |                      | 2.71           |

# Ball bearings Eccentric locking collar type



Eccentric locking collar + bearing  
JELxxxD1W3

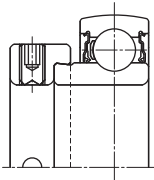


Bearing  
Maintenance free type :JL2xx  
Relubricatable :JL2xx

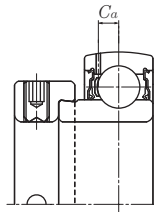
| Shaft<br>dia.                                   | Bearing number <sup>1)</sup>                                                            | Nominal dimensions                         |              |                       |                |              |                                                 |                              |                       |              |                         |                       |  |
|-------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------|--------------|-----------------------|----------------|--------------|-------------------------------------------------|------------------------------|-----------------------|--------------|-------------------------|-----------------------|--|
|                                                 |                                                                                         | <i>d</i>                                   | <i>D</i>     | <i>B</i> <sub>1</sub> | <i>B</i>       | <i>C</i>     | <div>mm<br/><i>r</i><sub>s</sub><br/>min.</div> | <div>inch<br/><i>S</i></div> | <i>S</i> <sub>1</sub> | <i>G</i>     | <i>d</i> <sub>s</sub>   | <i>d</i> <sub>3</sub> |  |
| <div>12<br/>1½</div>                            | <div>JEL201W3<br/>JEL201-008W3</div>                                                    | 12<br>0.5000                               | 40<br>1.5748 | 28.6<br>1.126         | 19<br>0.7480   | 13<br>0.5118 | 0.6<br>0.024                                    | 6.5<br>0.256                 | 22.1<br>0.870         | 4.8<br>0.189 | M6 × 0.75<br>¼-28UNF    | 29<br>1.142           |  |
| <div>15<br/>9⁄16<br/>5⁄8</div>                  | <div>JEL202W3<br/>JEL202-009W3<br/>JEL202-010W3</div>                                   | 15<br>0.5625<br>0.6250                     | 40<br>1.5748 | 28.6<br>1.126         | 19<br>0.7480   | 13<br>0.5118 | 0.6<br>0.024                                    | 6.5<br>0.256                 | 22.1<br>0.870         | 4.8<br>0.189 | M6 × 0.75<br>¼-28UNF    | 29<br>1.142           |  |
| <div>17<br/>11⁄16</div>                         | <div>JEL203W3<br/>JEL203-011W3</div>                                                    | 17<br>0.6875                               | 40<br>1.5748 | 28.6<br>1.126         | 19<br>0.7480   | 13<br>0.5118 | 0.6<br>0.024                                    | 6.5<br>0.256                 | 22.1<br>0.870         | 4.8<br>0.189 | M6 × 0.75<br>¼-28UNF    | 29<br>1.142           |  |
| <div>20<br/>¾</div>                             | <div>JEL204W3<br/>JEL204-012W3</div>                                                    | 20<br>0.7500                               | 47<br>1.8504 | 31<br>1.220           | 21.5<br>0.8465 | 15<br>0.5906 | 1<br>0.039                                      | 7.5<br>0.295                 | 23.5<br>0.925         | 4.8<br>0.189 | M6 × 0.75<br>¼-28UNF    | 33<br>1.299           |  |
| <div>25<br/>13⁄16<br/>7⁄8<br/>15⁄16<br/>1</div> | <div>JEL205W3<br/>JEL205-013W3<br/>JEL205-014W3<br/>JEL205-015W3<br/>JEL205-100W3</div> | 25<br>0.8125<br>0.8750<br>0.9375<br>1.0000 | 52<br>2.0472 | 31<br>1.220           | 21.5<br>0.8465 | 15<br>0.5906 | 1<br>0.039                                      | 7.5<br>0.295                 | 23.5<br>0.925         | 4.8<br>0.189 | M6 × 0.75<br>¼-28UNF    | 38<br>1.496           |  |
| <div>30<br/>1½<br/>1⅛<br/>1⅜<br/>1¼</div>       | <div>JEL206W3<br/>JEL206-101W3<br/>JEL206-102W3<br/>JEL206-103W3<br/>JEL206-104W3</div> | 30<br>1.0625<br>1.1250<br>1.1875<br>1.2500 | 62<br>2.4409 | 35.7<br>1.406         | 23.8<br>0.9370 | 18<br>0.7087 | 1<br>0.039                                      | 9<br>0.354                   | 26.7<br>1.051         | 6<br>0.236   | M8 × 1<br>5⁄16-24UNF    | 44.5<br>1.752         |  |
| <div>35<br/>1¼<br/>15⁄16<br/>1⅜<br/>17⁄16</div> | <div>JEL207W3<br/>JEL207-104W3<br/>JEL207-105W3<br/>JEL207-106W3<br/>JEL207-107W3</div> | 35<br>1.2500<br>1.3125<br>1.3750<br>1.4375 | 72<br>2.8346 | 38.9<br>1.531         | 25.4<br>1.0000 | 19<br>0.7480 | 1.5<br>0.059                                    | 9.5<br>0.374                 | 29.4<br>1.157         | 6.8<br>0.268 | M10 × 1.25<br>3⁄8-24UNF | 55.5<br>2.185         |  |
| <div>40<br/>1½<br/>19⁄16</div>                  | <div>JEL208W3<br/>JEL208-108W3<br/>JEL208-109W3</div>                                   | 40<br>1.5000<br>1.5625                     | 80<br>3.1496 | 43.7<br>1.720         | 30.2<br>1.1890 | 22<br>0.8661 | 1.5<br>0.059                                    | 11<br>0.433                  | 32.7<br>1.287         | 6.8<br>0.268 | M10 × 1.25<br>3⁄8-24UNF | 60<br>2.362           |  |

Remarks: 1) If relubricatable type is needed, please order with suffix "D1".

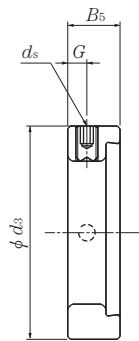
2) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.



Maintenance free type : JEL2xxW3  
Example : JEL205W3



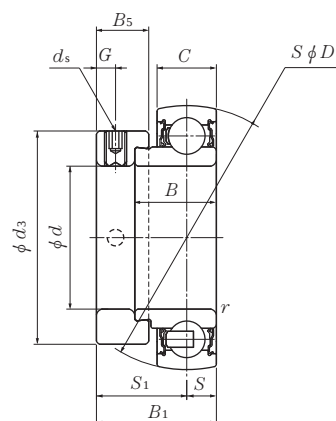
Relubricatable : JEL2xxD1W3  
Example : JEL205D1W3



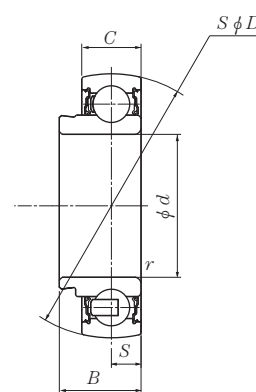
Eccentric locking collar  
EL2xxW3

| Nominal dimensions |       | Basic load ratings |        | Factor <sup>2)</sup> | Mass (approx.) |
|--------------------|-------|--------------------|--------|----------------------|----------------|
| mm                 | inch  | N                  | lbf    |                      | kg lb          |
| $B_5$              | $C_a$ | dynamic<br>$C_r$   |        | static<br>$C_{or}$   | $f_0$          |
| 13.6               | 3.9   | 9 600              | 4 600  | 12.8                 | 0.12           |
| 0.535              | 0.154 | 2 160              | 1 030  |                      | 0.25           |
| 13.6               | 3.9   | 9 600              | 4 600  | 12.8                 | 0.10           |
| 0.535              | 0.154 | 2 160              | 1 030  |                      | 0.24<br>0.22   |
| 13.6               | 3.9   | 9 600              | 4 600  | 12.8                 | 0.09           |
| 0.535              | 0.154 | 2 160              | 1 030  |                      | 0.20           |
| 13.5               | 4.3   | 12 800             | 6 650  | 13.2                 | 0.16           |
| 0.531              | 0.169 | 2 890              | 1 500  |                      | 0.37           |
| 13.5               | 4.0   | 14 000             | 7 850  | 13.9                 | 0.19           |
|                    |       |                    |        |                      | 0.50           |
| 0.531              | 0.157 | 3 150              | 1 770  |                      | 0.47           |
|                    |       |                    |        |                      | 0.44<br>0.41   |
| 15.9               | 4.9   | 19 500             | 11 300 | 13.8                 | 0.33           |
|                    |       |                    |        |                      | 0.78           |
| 0.626              | 0.193 | 4 400              | 2 540  |                      | 0.73           |
|                    |       |                    |        |                      | 0.69<br>0.64   |
| 17.5               | 5.4   | 25 700             | 15 300 | 13.8                 | 0.50           |
|                    |       |                    |        |                      | 1.22           |
| 0.689              | 0.213 | 5 750              | 3 450  |                      | 1.16           |
|                    |       |                    |        |                      | 1.11<br>1.05   |
| 18.3               | 6.5   | 29 100             | 17 800 | 14.0                 | 0.65           |
|                    |       |                    |        |                      | 1.53           |
| 0.720              | 0.256 | 6 550              | 4 000  |                      | 1.46           |

# Ball bearings Eccentric locking collar type



Eccentric locking collar + bearing  
JELxxxD1W3

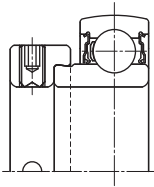


Bearing  
Maintenance free type :JL2xx  
Relubricatable :JL2xx

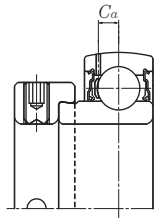
| Shaft<br>dia.                       | Bearing number <sup>1)</sup> | Nominal dimensions |          |                       |          |          |                               |          |                       |          |                                    |                       |  |
|-------------------------------------|------------------------------|--------------------|----------|-----------------------|----------|----------|-------------------------------|----------|-----------------------|----------|------------------------------------|-----------------------|--|
|                                     |                              | <i>d</i>           | <i>D</i> | <i>B</i> <sub>1</sub> | <i>B</i> | <i>C</i> | mm                            | inch     | <i>S</i> <sub>1</sub> | <i>G</i> | <i>ds</i>                          | <i>d</i> <sub>3</sub> |  |
|                                     |                              |                    |          |                       |          |          | <i>r</i> <sub>s</sub><br>min. | <i>S</i> |                       |          |                                    |                       |  |
| <b>45</b>                           | <b>JEL209W3</b>              | 45                 | 85       | 43.7                  | 30.2     | 22       | 1.5                           | 11       | 32.7                  | 6.8      | M10 × 1.25                         | 63.5                  |  |
| <b>1<sup>5</sup>/<sub>8</sub></b>   | <b>JEL209-110W3</b>          | 1.6250             |          |                       |          |          |                               |          |                       |          |                                    |                       |  |
| <b>1<sup>11</sup>/<sub>16</sub></b> | <b>JEL209-111W3</b>          | 1.6875             | 3.3465   | 1.720                 | 1.1890   | 0.8661   | 0.059                         | 0.433    | 1.287                 | 0.268    | <sup>3</sup> / <sub>8</sub> -24UNF | 2.500                 |  |
| <b>1<sup>3</sup>/<sub>4</sub></b>   | <b>JEL209-112W3</b>          | 1.7500             |          |                       |          |          |                               |          |                       |          |                                    |                       |  |
| <b>50</b>                           | <b>JEL210W3</b>              | 50                 | 90       | 43.7                  | 30.2     | 22       | 1.5                           | 11       | 32.7                  | 6.8      | M10X1.25                           | 69.5                  |  |
| <b>1<sup>13</sup>/<sub>16</sub></b> | <b>JEL210-113W3</b>          | 1.8125             |          |                       |          |          |                               |          |                       |          |                                    |                       |  |
| <b>1<sup>7</sup>/<sub>8</sub></b>   | <b>JEL210-114W3</b>          | 1.8750             | 3.5433   | 1.720                 | 1.1890   | 0.8661   | 0.059                         | 0.433    | 1.287                 | 0.268    | <sup>3</sup> / <sub>8</sub> -24UNF | 2.736                 |  |
| <b>1<sup>15</sup>/<sub>16</sub></b> | <b>JEL210-115W3</b>          | 1.9375             |          |                       |          |          |                               |          |                       |          |                                    |                       |  |
| <b>2</b>                            | <b>JEL210-200W3</b>          | 2.0000             |          |                       |          |          |                               |          |                       |          |                                    |                       |  |
| <b>55</b>                           | <b>JEL211W3</b>              | 55                 | 100      | 48.4                  | 32.5     | 24       | 2                             | 12       | 36.4                  | 8        | M10X1.25                           | 76                    |  |
| <b>2</b>                            | <b>JEL211-200W3</b>          | 2.0000             |          |                       |          |          |                               |          |                       |          |                                    |                       |  |
| <b>2<sup>1</sup>/<sub>16</sub></b>  | <b>JEL211-201W3</b>          | 2.0625             | 3.9370   | 1.906                 | 1.2795   | 0.9449   | 0.079                         | 0.472    | 1.433                 | 0.315    | <sup>3</sup> / <sub>8</sub> -24UNF | 2.992                 |  |
| <b>2<sup>1</sup>/<sub>8</sub></b>   | <b>JEL211-202W3</b>          | 2.1250             |          |                       |          |          |                               |          |                       |          |                                    |                       |  |
| <b>2<sup>3</sup>/<sub>16</sub></b>  | <b>JEL211-203W3</b>          | 2.1875             |          |                       |          |          |                               |          |                       |          |                                    |                       |  |
| <b>60</b>                           | <b>JEL212W3</b>              | 60                 | 110      | 53.1                  | 37.2     | 27       | 2                             | 13.5     | 39.6                  | 8        | M10X1.25                           | 84                    |  |
| <b>2<sup>1</sup>/<sub>4</sub></b>   | <b>JEL212-204W3</b>          | 2.2500             |          |                       |          |          |                               |          |                       |          |                                    |                       |  |
| <b>2<sup>5</sup>/<sub>16</sub></b>  | <b>JEL212-205W3</b>          | 2.3125             | 4.3307   | 2.091                 | 1.4646   | 1.0630   | 0.079                         | 0.531    | 1.559                 | 0.315    | <sup>3</sup> / <sub>8</sub> -24UNF | 3.307                 |  |
| <b>2<sup>3</sup>/<sub>8</sub></b>   | <b>JEL212-206W3</b>          | 2.3750             |          |                       |          |          |                               |          |                       |          |                                    |                       |  |
| <b>2<sup>7</sup>/<sub>16</sub></b>  | <b>JEL212-207W3</b>          | 2.4375             |          |                       |          |          |                               |          |                       |          |                                    |                       |  |

Remarks: 1) If relubricatable type is needed, please order with suffix "D1".

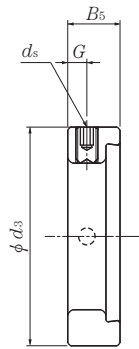
2) For inch series bearings, the *f*<sub>0</sub> factor for calculating equivalent radial load is the same as the metric series.



Maintenance free type : JEL2xxW3  
Example : JEL205W3



Relubricatable : JEL2xxD1W3  
Example : JEL205D1W3

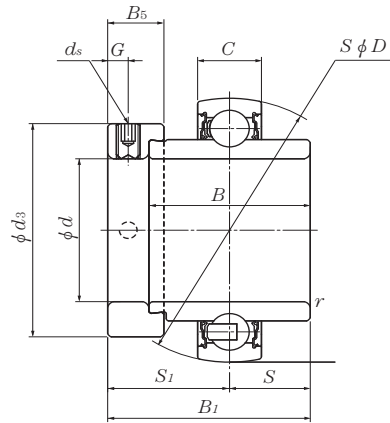


Eccentric locking collar  
EL2xxW3

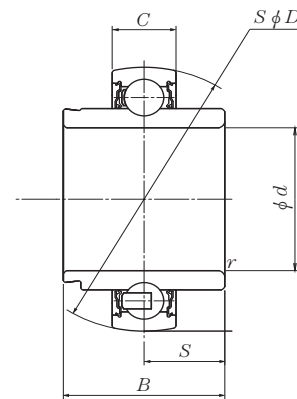
| Nominal dimensions |       | Basic load ratings |        | Factor <sup>2)</sup> | Mass (approx.) |
|--------------------|-------|--------------------|--------|----------------------|----------------|
| mm                 | inch  | N                  | lbf    |                      | kg lb          |
| $B_5$              | $C_a$ | dynamic<br>$C_r$   |        | static<br>$C_{or}$   | $f_0$          |
| 18.3               | 6.1   | 32 500             | 20 400 | 14.1                 | 0.76           |
|                    |       |                    |        |                      | 1.87           |
| 0.720              | 0.240 | 7 350              | 4 600  |                      | 1.79           |
|                    |       |                    |        |                      | 1.72           |
| 18.3               | 6.7   | 35 000             | 23 200 | 14.4                 | 0.84           |
|                    |       |                    |        |                      | 2.09           |
| 0.720              | 0.264 | 7 900              | 5 200  |                      | 2.01           |
|                    |       |                    |        |                      | 1.92           |
|                    |       |                    |        |                      | 1.81           |
| 20.7               | 7.4   | 43 500             | 29 200 | 14.3                 | 1.13           |
|                    |       |                    |        |                      | 2.78           |
| 0.815              | 0.291 | 9 750              | 6 550  |                      | 2.67           |
|                    |       |                    |        |                      | 2.56           |
|                    |       |                    |        |                      | 2.45           |
| 22.3               | 7.3   | 52 500             | 36 000 | 14.3                 | 1.48           |
|                    |       |                    |        |                      | 3.51           |
| 0.878              | 0.287 | 11 800             | 8 150  |                      | 3.37           |
|                    |       |                    |        |                      | 3.24           |
|                    |       |                    |        |                      | 3.09           |



# Ball bearings Eccentric locking collar type



Eccentric locking collar + bearing  
RELxxxD1W3

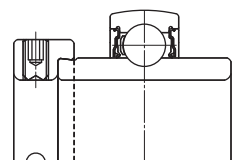


Bearing  
Maintenance free type : RL2xx  
Relubricatable : RL2xxD1

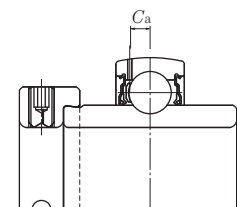
| Shaft<br>dia.                                                                       | Bearing number <sup>1)</sup>                                             | Nominal dimensions                         |              |                       |                |              |                                                 |                              |                       |              |                         |                       |  |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------|--------------|-----------------------|----------------|--------------|-------------------------------------------------|------------------------------|-----------------------|--------------|-------------------------|-----------------------|--|
|                                                                                     |                                                                          | <i>d</i>                                   | <i>D</i>     | <i>B</i> <sub>1</sub> | <i>B</i>       | <i>C</i>     | <div>mm<br/><i>r</i><sub>s</sub><br/>min.</div> | <div>inch<br/><i>S</i></div> | <i>S</i> <sub>1</sub> | <i>G</i>     | <i>d</i> <sub>s</sub>   | <i>d</i> <sub>3</sub> |  |
| 20<br><div><div>3/4</div></div>                                                     | REL204W3<br>REL204-012W3                                                 | 20<br>0.7500                               | 47<br>1.8504 | 43.7<br>1.720         | 34.2<br>1.3465 | 15<br>0.5906 | 1<br>0.039                                      | 17.1<br>0.673                | 26.6<br>1.047         | 4.8<br>0.189 | M6 × 0.75<br>1/4-28UNF  | 33.0<br>1.299         |  |
| 25<br><div><div>13/16</div><div>7/8</div><div>15/16</div><div>1</div></div>         | REL205W3<br>REL205-013W3<br>REL205-014W3<br>REL205-015W3<br>REL205-100W3 | 25<br>0.8125<br>0.8750<br>0.9375<br>1.0000 | 52<br>2.0472 | 44.4<br>1.748         | 34.9<br>1.3740 | 15<br>0.5906 | 1<br>0.039                                      | 17.45<br>0.687               | 26.9<br>1.059         | 4.8<br>0.189 | M6 × 0.75<br>1/4-28UNF  | 38.0<br>1.496         |  |
| 30<br><div><div>1 1/16</div><div>1 1/8</div><div>1 3/16</div><div>1 1/4</div></div> | REL206W3<br>REL206-101W3<br>REL206-102W3<br>REL206-103W3<br>REL206-104W3 | 30<br>1.0625<br>1.1250<br>1.1875<br>1.2500 | 62<br>2.4409 | 48.4<br>1.906         | 36.5<br>1.4370 | 18<br>0.7087 | 1<br>0.039                                      | 18.25<br>0.719               | 30.1<br>1.185         | 6<br>0.236   | M8 × 1<br>5/16-24UNF    | 44.5<br>1.752         |  |
| 35<br><div><div>1 1/4</div><div>1 5/16</div><div>1 3/8</div><div>1 7/16</div></div> | REL207W3<br>REL207-104W3<br>REL207-105W3<br>REL207-106W3<br>REL207-107W3 | 35<br>1.2500<br>1.3125<br>1.3750<br>1.4375 | 72<br>2.8346 | 51.1<br>2.012         | 37.6<br>1.4803 | 19<br>0.7480 | 1.5<br>0.059                                    | 18.8<br>0.740                | 32.3<br>1.272         | 6.8<br>0.268 | M10 × 1.25<br>3/8-24UNF | 55.5<br>2.185         |  |
| 40<br><div><div>1 1/2</div><div>1 9/16</div></div>                                  | REL208W3<br>REL208-108W3<br>REL208-109W3                                 | 40<br>1.5000<br>1.5625                     | 80<br>3.1496 | 56.3<br>2.217         | 42.8<br>1.6850 | 22<br>0.8661 | 1.5<br>0.059                                    | 21.4<br>0.843                | 34.9<br>1.374         | 6.8<br>0.268 | M10 × 1.25<br>3/8-24UNF | 60.0<br>2.362         |  |
| 45<br><div><div>1 5/8</div><div>1 11/16</div><div>1 3/4</div></div>                 | REL209W3<br>REL209-110W3<br>REL209-111W3<br>REL209-112W3                 | 45<br>1.6250<br>1.6875<br>1.7500           | 85<br>3.3465 | 56.3<br>2.217         | 42.8<br>1.6850 | 22<br>0.8661 | 1.5<br>0.059                                    | 21.4<br>0.843                | 34.9<br>1.374         | 6.8<br>0.268 | M10 × 1.25<br>3/8-24UNF | 63.5<br>2.500         |  |
| 50<br><div><div>1 13/16</div><div>1 7/8</div><div>1 15/16</div><div>2</div></div>   | REL210W3<br>REL210-113W3<br>REL210-114W3<br>REL210-115W3<br>REL210-200W3 | 50<br>1.8125<br>1.8750<br>1.9375<br>2.0000 | 90<br>3.5433 | 62.7<br>2.469         | 49.2<br>1.9370 | 22<br>0.8661 | 1.5<br>0.059                                    | 24.6<br>0.969                | 38.1<br>1.500         | 6.8<br>0.268 | M10 × 1.25<br>3/8-24UNF | 69.5<br>2.736         |  |

Remarks: 1) If relubricatable type is needed, please order with suffix "D1".

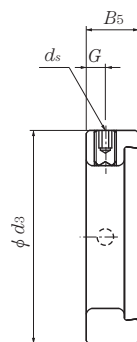
2) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.



Maintenance free type : REL2xxW3  
Example :REL205W3



Relubricatable :REL2xxD1W3  
Example :REL205D1W3

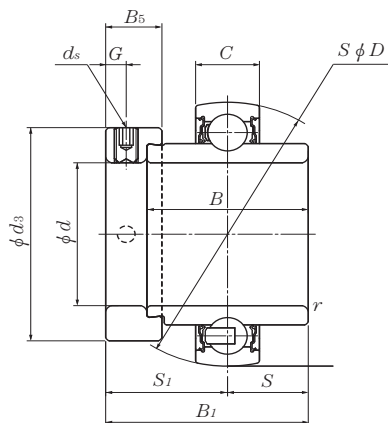


Eccentric locking collar  
EL2xxW3

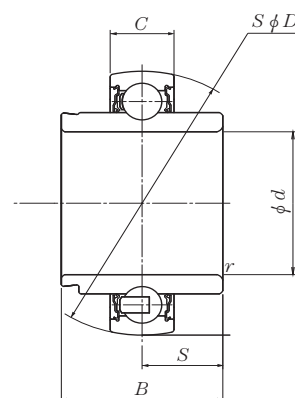
| Nominal dimensions    |                       | Basic load ratings |                       | Factor <sup>2)</sup>             | Mass (approx.)        |
|-----------------------|-----------------------|--------------------|-----------------------|----------------------------------|-----------------------|
| mm                    | inch                  | N                  | lbf                   |                                  | kg lb                 |
| <i>B</i> <sub>5</sub> | <i>C</i> <sub>a</sub> | dynamic            | <i>C</i> <sub>r</sub> | static<br><i>C</i> <sub>or</sub> | <i>f</i> <sub>0</sub> |
| 13.5                  | 4.3                   | 12 800             | 6 650                 | 13.2                             | 0.22                  |
| 0.531                 | 0.169                 | 2 890              | 1 500                 |                                  | 0.43                  |
| 13.5                  | 4.0                   | 14 000             | 7 850                 | 13.9                             | 0.26                  |
| 0.531                 | 0.157                 | 3 150              | 1 770                 |                                  | 0.59                  |
|                       |                       |                    |                       |                                  | 0.56                  |
|                       |                       |                    |                       |                                  | 0.53                  |
|                       |                       |                    |                       |                                  | 0.49                  |
| 15.9                  | 4.9                   | 19 500             | 11 300                | 13.8                             | 0.39                  |
| 0.626                 | 0.193                 | 4 400              | 2 540                 |                                  | 0.92                  |
|                       |                       |                    |                       |                                  | 0.87                  |
|                       |                       |                    |                       |                                  | 0.82                  |
|                       |                       |                    |                       |                                  | 0.78                  |
| 17.5                  | 5.4                   | 25 700             | 15 300                | 13.8                             | 0.59                  |
| 0.689                 | 0.213                 | 5 750              | 3 450                 |                                  | 1.41                  |
|                       |                       |                    |                       |                                  | 1.36                  |
|                       |                       |                    |                       |                                  | 1.31                  |
|                       |                       |                    |                       |                                  | 1.24                  |
| 18.3                  | 6.5                   | 29 100             | 17 800                | 14.0                             | 0.76                  |
| 0.720                 | 0.256                 | 6 550              | 4 000                 |                                  | 1.88                  |
|                       |                       |                    |                       |                                  | 1.80                  |
| 18.3                  | 6.1                   | 32 500             | 20 400                | 14.1                             | 0.78                  |
| 0.720                 | 0.240                 | 7 350              | 4 600                 |                                  | 2.01                  |
|                       |                       |                    |                       |                                  | 1.93                  |
|                       |                       |                    |                       |                                  | 1.84                  |
| 18.3                  | 6.7                   | 35 000             | 23 200                | 14.4                             | 0.96                  |
| 0.720                 | 0.264                 | 7 900              | 5 200                 |                                  | 2.42                  |
|                       |                       |                    |                       |                                  | 2.32                  |
|                       |                       |                    |                       |                                  | 2.21                  |
|                       |                       |                    |                       |                                  | 2.05                  |

## Ball bearings

### Eccentric locking collar type



**Eccentric locking collar + bearing**  
**RELxxxD1W3**

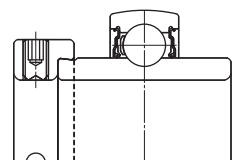


**Bearing**  
**Maintenance free type : RL2xx**  
**Relubricatable : RL2xxD1**

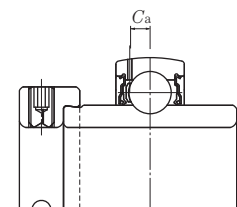
| Shaft<br>dia. | Bearing number <sup>1)</sup> | Nominal dimensions |            |                       |             |           |                               |              |                       |          |                   |                       |
|---------------|------------------------------|--------------------|------------|-----------------------|-------------|-----------|-------------------------------|--------------|-----------------------|----------|-------------------|-----------------------|
|               |                              | <i>d</i>           | <i>D</i>   | <i>B</i> <sub>1</sub> | <i>B</i>    | <i>C</i>  | <i>r</i> <sub>s</sub><br>min. | <i>S</i>     | <i>S</i> <sub>1</sub> | <i>G</i> | <i>ds</i>         | <i>d</i> <sub>3</sub> |
| <b>55</b>     | <b>REL211W3</b>              | <b>55</b>          | <b>100</b> | <b>71.4</b>           | <b>55.5</b> | <b>24</b> | <b>2</b>                      | <b>27.75</b> | <b>43.6</b>           | <b>8</b> | <b>M10 × 1.25</b> | <b>76</b>             |
| <b>2</b>      | <b>REL211-200W3</b>          | 2.0000             |            |                       |             |           |                               |              |                       |          |                   |                       |
| <b>2 1/16</b> | <b>REL211-201W3</b>          | 2.0625             | 3.9370     | 2.811                 | 2.1850      | 0.9449    | 0.079                         | 1.093        | 1.717                 | 0.315    | 3/8-24UNF         | 2.992                 |
| <b>2 1/8</b>  | <b>REL211-202W3</b>          | 2.1250             |            |                       |             |           |                               |              |                       |          |                   |                       |
| <b>2 3/16</b> | <b>REL211-203W3</b>          | 2.1875             |            |                       |             |           |                               |              |                       |          |                   |                       |
| <b>60</b>     | <b>REL212W3</b>              | <b>60</b>          | <b>110</b> | <b>77.8</b>           | <b>61.9</b> | <b>27</b> | <b>2</b>                      | <b>30.95</b> | <b>46.8</b>           | <b>8</b> | <b>M10 × 1.25</b> | <b>84</b>             |
| <b>2 1/4</b>  | <b>REL212-204W3</b>          | 2.2500             |            |                       |             |           |                               |              |                       |          |                   |                       |
| <b>2 5/16</b> | <b>REL212-205W3</b>          | 2.3125             | 4.3307     | 3.063                 | 2.4370      | 1.0630    | 0.079                         | 1.219        | 1.843                 | 0.315    | 3/8-24UNF         | 3.307                 |
| <b>2 3/8</b>  | <b>REL212-206W3</b>          | 2.3750             |            |                       |             |           |                               |              |                       |          |                   |                       |
| <b>2 7/16</b> | <b>REL212-207W3</b>          | 2.4375             |            |                       |             |           |                               |              |                       |          |                   |                       |

Remarks: 1) If relubricatable type is needed, please order with suffix "D1".

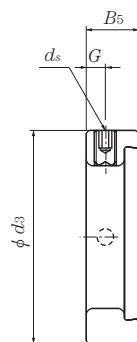
2) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.



Maintenance free type : REL2xxW3  
Example :REL205W3



Relubricatable :REL2xxD1W3  
Example :REL205D1W3

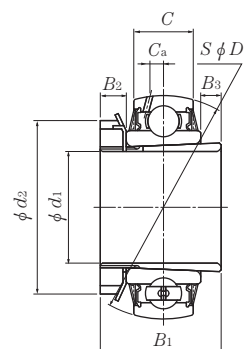


Eccentric locking collar  
EL2xxW3

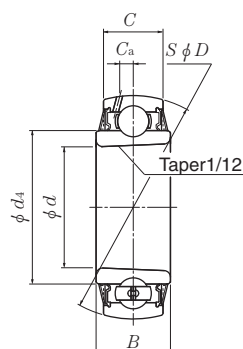
| Nominal dimensions |                | Basic load ratings |                | Factor <sup>2)</sup> | Mass (approx.) |
|--------------------|----------------|--------------------|----------------|----------------------|----------------|
| mm                 | inch           | N                  | lbf            | static               | kg lb          |
| B <sub>5</sub>     | C <sub>a</sub> | dynamic            | C <sub>r</sub> | C <sub>0r</sub>      | f <sub>0</sub> |
| 20.7               | 7.4            | 43 500             | 29 200         | 14.3                 | 1.28           |
|                    |                |                    |                |                      | 3.21           |
| 0.815              | 0.291          | 9 750              | 6 550          |                      | 3.05           |
|                    |                |                    |                |                      | 2.95           |
|                    |                |                    |                |                      | 2.83           |
| 22.3               | 7.8            | 52 500             | 36 000         | 14.3                 | 1.83           |
|                    |                |                    |                |                      | 4.29           |
| 0.878              | 0.287          | 11 800             | 8 150          |                      | 4.13           |
|                    |                |                    |                |                      | 3.96           |
|                    |                |                    |                |                      | 3.79           |

## Ball bearings

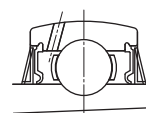
### Adapter type



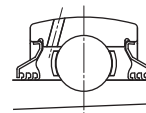
Bearing with adapter assembly  
UKxxxD1 ; H23xx



Bearing  
UKxxD1



Standard : Seal + Slinger



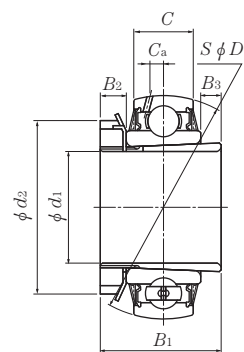
Triple Sealed  
UKxxxD1LLJ ; H23xx  
Example : UK205D1LLJ ; H2305X

| Shaft<br>dia.                   | Bearing number <sup>1) 2)</sup>                                        | Nominal dimensions |               |              |              |                |                                 |                |                |                |                |                |
|---------------------------------|------------------------------------------------------------------------|--------------------|---------------|--------------|--------------|----------------|---------------------------------|----------------|----------------|----------------|----------------|----------------|
|                                 |                                                                        | mm                 |               |              |              |                |                                 | inch           |                |                |                |                |
|                                 |                                                                        | d                  | D             | B            | C            | d <sub>4</sub> | d <sub>1</sub>                  | B <sub>1</sub> | B <sub>2</sub> | d <sub>2</sub> | C <sub>a</sub> | B <sub>3</sub> |
| 20<br>3/4                       | UK205D1;H2305X<br>UK205D1;HE2305                                       | 25<br>0.9843       | 52<br>2.0472  | 23<br>0.9055 | 17<br>0.6693 | 33.9<br>1.335  | 20<br>3/4                       | 35<br>1.378    | 8<br>0.315     | 38<br>1.496    | 4.0<br>0.157   | 4.0<br>0.157   |
| 25<br>7/8<br>1                  | UK206D1;H2306X<br>UK206D1;HS2306<br>UK206D1;HE2306X                    | 30<br>1.1811       | 62<br>2.4409  | 26<br>1.0236 | 19<br>0.7480 | 40.8<br>1.606  | 25<br>7/8<br>1                  | 38<br>1.496    | 8<br>0.315     | 45<br>1.772    | 4.9<br>0.193   | 4.0<br>0.157   |
| 30<br>1 1/8                     | UK207D1;H2307X<br>UK207D1;HS2307                                       | 35<br>1.3780       | 72<br>2.8346  | 29<br>1.1417 | 20<br>0.7874 | 46.8<br>1.843  | 30<br>1 1/8                     | 43<br>1.693    | 9<br>0.354     | 52<br>2.047    | 5.4<br>0.213   | 5.0<br>0.197   |
| 35<br>1 1/4<br>1 3/8            | UK208D1;H2308X<br>UK208D1;HE2308X<br>UK208D1;HS2308X                   | 40<br>1.5748       | 80<br>3.1496  | 31<br>1.2205 | 21<br>0.8268 | 53<br>2.087    | 35<br>1 1/4<br>1 3/8            | 46<br>1.811    | 10<br>0.394    | 58<br>2.283    | 6.0<br>0.236   | 5.0<br>0.197   |
| 40<br>1 7/16<br>1 1/2<br>1 5/8  | UK209D1;H2309X<br>UK209D1;HA2309<br>UK209D1;HE2309X<br>UK209D1;HS2309X | 45<br>1.7717       | 85<br>3.3465  | 31<br>1.2205 | 22<br>0.8661 | 57.5<br>2.264  | 40<br>1 7/16<br>1 1/2<br>1 5/8  | 50<br>1.969    | 11<br>0.433    | 65<br>2.559    | 6.1<br>0.240   | 8.0<br>0.315   |
| 45<br>1 5/8<br>1 11/16<br>1 3/4 | UK210D1;H2310X<br>UK210D1;HS2310<br>UK210D1;HA2310<br>UK210D1;HE2310X  | 50<br>1.9685       | 90<br>3.5433  | 32<br>1.2598 | 24<br>0.9449 | 62.4<br>2.457  | 45<br>1 5/8<br>1 11/16<br>1 3/4 | 55<br>2.165    | 12<br>0.472    | 70<br>2.756    | 6.1<br>0.240   | 11.0<br>0.433  |
| 50<br>1 7/8<br>1 15/16<br>2     | UK211D1;H2311X<br>UK211D1;HS2311<br>UK211D1;HA2311<br>UK211D1;HE2311XY | 55<br>2.1654       | 100<br>3.9370 | 35<br>1.3780 | 25<br>0.9843 | 69<br>2.717    | 50<br>1 7/8<br>1 15/16<br>2     | 59<br>2.323    | 12<br>0.472    | 75<br>2.953    | 6.5<br>0.256   | 12.0<br>0.472  |
| 55<br>2 1/8                     | UK212D1;H2312X<br>UK212D1;HS2312                                       | 60<br>2.3622       | 110<br>4.3307 | 38<br>1.4961 | 27<br>1.0630 | 77<br>3.031    | 55<br>2 1/8                     | 62<br>2.441    | 13<br>0.512    | 80<br>3.150    | 7.3<br>0.287   | 11.0<br>0.433  |
| 60<br>2 3/16<br>2 1/4<br>2 3/8  | UK213D1;H2313X<br>UK213D1;HA2313<br>UK213D1;HE2313X<br>UK213D1;HS2313X | 65<br>2.5591       | 120<br>4.7244 | 40<br>1.5748 | 32<br>1.2598 | 82.5<br>3.248  | 60<br>2 3/16<br>2 1/4<br>2 3/8  | 65<br>2.559    | 14<br>0.551    | 85<br>3.346    | 7.3<br>0.287   | 11.0<br>0.433  |

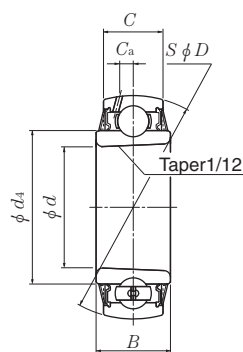
Remarks: 1) Adapter number with suffix "X" means a narrow slot type adapter sleeve.  
In this case the lock washer with the straight inner prong should be used.  
2) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.  
To distinguish it, a suffix "Y" is added.  
3) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

| Basic load ratings |          | Factor <sup>3)</sup> | Mass<br>(approx.)    |
|--------------------|----------|----------------------|----------------------|
| $C_r$              | $C_{or}$ | $f_0$                | kg lb                |
| 14 000             | 7 850    | 13.9                 | 0.23                 |
| 3 150              | 1 770    |                      | 0.57                 |
| 19 500             | 11 300   | 13.8                 | 0.36                 |
| 4 400              | 2 540    |                      | 0.86<br>0.78         |
| 25 700             | 15 300   | 13.8                 | 0.55                 |
| 5 750              | 3 450    |                      | 1.30                 |
| 29 100             | 17 800   | 14.0                 | 0.74                 |
| 6 550              | 4 000    |                      | 1.77<br>1.63         |
| 32 500             | 20 400   | 14.1                 | 0.80                 |
| 7 350              | 4 600    |                      | 2.01<br>1.93<br>1.76 |
| 35 000             | 23 200   | 14.4                 | 0.94                 |
| 7 900              | 5 200    |                      | 2.38<br>2.28<br>2.18 |
| 43 500             | 29 200   | 14.3                 | 1.22                 |
| 9 750              | 6 550    |                      | 2.96<br>2.84<br>2.70 |
| 52 500             | 36 000   | 14.3                 | 1.54                 |
| 11 800             | 8 150    |                      | 3.60                 |
| 57 500             | 40 000   | 14.4                 | 2.00                 |
| 12 900             | 9 000    |                      | 4.86<br>4.70<br>4.38 |

## Ball bearings Adapter type



Bearing with adapter assembly  
UKxxxD1 ; H23xx



Bearing  
UKxxD1



Standard : Seal + Slinger



Triple Sealed  
UKxxxD1LLJ ; H23xx  
Example : UK205D1LLJ ; H2305X

| Shaft<br>dia.                                                          | Bearing number <sup>1) 2)</sup>                      | Nominal dimensions |               |              |              |                |                                                                        |                |                |                |                |                |
|------------------------------------------------------------------------|------------------------------------------------------|--------------------|---------------|--------------|--------------|----------------|------------------------------------------------------------------------|----------------|----------------|----------------|----------------|----------------|
|                                                                        |                                                      | mm                 |               |              |              |                |                                                                        | inch           |                |                |                |                |
|                                                                        |                                                      | d                  | D             | B            | C            | d <sub>4</sub> | d <sub>1</sub>                                                         | B <sub>1</sub> | B <sub>2</sub> | d <sub>2</sub> | C <sub>a</sub> | B <sub>3</sub> |
| 65<br>2 <sup>7</sup> / <sub>16</sub><br>2 <sup>1</sup> / <sub>2</sub>  | UK215D1;H2315X<br>UK215D1;HA2315<br>UK215D1;HE2315X  | 75<br>2.9528       | 130<br>5.1181 | 44<br>1.7323 | 34<br>1.3386 | 93<br>3.661    | 65<br>2 <sup>7</sup> / <sub>16</sub><br>2 <sup>1</sup> / <sub>2</sub>  | 73<br>2.874    | 15<br>0.591    | 98<br>3.858    | 8.0<br>0.315   | 14.0<br>0.551  |
| 70<br>2 <sup>11</sup> / <sub>16</sub><br>2 <sup>3</sup> / <sub>4</sub> | UK216D1;H2316X<br>UK216D1;HA2316<br>UK216D1;HE2316X  | 80<br>3.1496       | 140<br>5.5118 | 45<br>1.7717 | 35<br>1.3780 | 98.1<br>3.862  | 70<br>2 <sup>11</sup> / <sub>16</sub><br>2 <sup>3</sup> / <sub>4</sub> | 78<br>3.071    | 17<br>0.669    | 105<br>4.134   | 8.0<br>0.315   | 16.0<br>0.630  |
| 75<br>2 <sup>15</sup> / <sub>16</sub><br>3                             | UK217D1;H2317X<br>UK217D1;HA2317X<br>UK217D1;HE2317X | 85<br>3.3465       | 150<br>5.9055 | 46<br>1.8110 | 36<br>1.4173 | 106.4<br>4.189 | 75<br>2 <sup>15</sup> / <sub>16</sub><br>3                             | 82<br>3.228    | 18<br>0.709    | 110<br>4.331   | 7.9<br>0.311   | 18.0<br>0.709  |
| 80<br>3 <sup>3</sup> / <sub>16</sub>                                   | UK218D1;H2318X<br>UK218D1;HA2318X                    | 90<br>3.5433       | 160<br>6.2992 | 47<br>1.8504 | 37<br>1.4567 | 111.6<br>4.394 | 80<br>3 <sup>3</sup> / <sub>16</sub>                                   | 86<br>3.386    | 18<br>0.709    | 120<br>4.724   | 8.7<br>0.343   | 21.0<br>0.827  |

Remarks: 1) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

In this case the lock washer with the straight inner prong should be used.

2) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.

To distinguish it, a suffix "Y" is added.

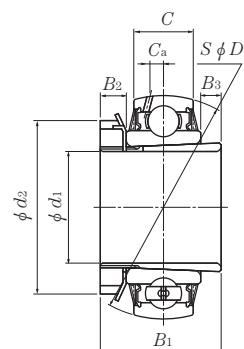
3) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

| Basic load ratings |          | Factor <sup>3)</sup> | Mass<br>(approx.) |      |
|--------------------|----------|----------------------|-------------------|------|
| $C_r$              | $C_{or}$ | $f_0$                | kg                | lb   |
| 66 000             | 49 500   | 14.7                 | 2.56              | 6.04 |
| 14 900             | 11 100   |                      | 5.84              |      |
| 72 500             | 53 000   | 14.6                 | 3.23              | 7.38 |
| 16 300             | 11 900   |                      | 7.14              |      |
| 83 500             | 64 000   | 14.7                 | 3.93              | 8.73 |
| 18 700             | 14 300   |                      | 8.46              |      |
| 96 000             | 71 500   | 14.5                 | 4.51              | 11.0 |
| 21 600             | 16 100   |                      |                   |      |

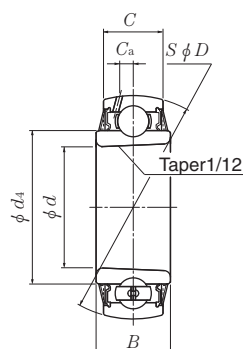


## Ball bearings

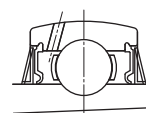
### Adapter type



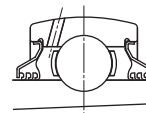
Bearing with adapter assembly  
UKxxxD1 ; H23xx



Bearing  
UKxxD1



Standard : Seal + Slinger



Triple Sealed  
UKxxxD1LLJ ; H23xx  
Example : UK305D1LLJ ; H2305X

| Shaft<br>dia.                   | Bearing number <sup>1) 2)</sup>                                        | Nominal dimensions |               |              |              |                |                                 |                |                |                |                |                |
|---------------------------------|------------------------------------------------------------------------|--------------------|---------------|--------------|--------------|----------------|---------------------------------|----------------|----------------|----------------|----------------|----------------|
|                                 |                                                                        |                    |               |              |              |                |                                 |                |                |                |                |                |
|                                 |                                                                        |                    |               |              |              |                |                                 |                |                |                |                |                |
| mm<br>inch                      |                                                                        | d                  | D             | B            | C            | d <sub>4</sub> | d <sub>1</sub>                  | B <sub>1</sub> | B <sub>2</sub> | d <sub>2</sub> | C <sub>a</sub> | B <sub>3</sub> |
| 20<br>3/4                       | UK305D1;H2305X<br>UK305D1;HE2305                                       | 25<br>0.9843       | 62<br>2.4409  | 26<br>1.0236 | 20<br>0.7874 | 36.8<br>1.449  | 20<br>3/4                       | 35<br>1.378    | 8<br>0.315     | 38<br>1.496    | 5.0<br>0.197   | 1.0<br>0.039   |
| 25<br>7/8<br>1                  | UK306D1;H2306X<br>UK306D1;HS2306<br>UK306D1;HE2306X                    | 30<br>1.1811       | 72<br>2.8346  | 29<br>1.1417 | 23<br>0.9055 | 44.9<br>1.768  | 25<br>7/8<br>1                  | 38<br>1.496    | 8<br>0.315     | 45<br>1.772    | 5.6<br>0.220   | 1.0<br>0.039   |
| 30<br>1 1/8                     | UK307D1;H2307X<br>UK307D1;HS2307                                       | 35<br>1.3780       | 80<br>3.1496  | 33<br>1.2992 | 25<br>0.9843 | 49.4<br>1.945  | 30<br>1 1/8                     | 43<br>1.693    | 9<br>0.354     | 52<br>2.047    | 5.7<br>0.224   | 1.0<br>0.039   |
| 35<br>1 1/4<br>1 3/8            | UK308D1;H2308X<br>UK308D1;HE2308X<br>UK308D1;HS2308X                   | 40<br>1.5748       | 90<br>3.5433  | 34<br>1.3386 | 27<br>1.0630 | 56<br>2.205    | 35<br>1 1/4<br>1 3/8            | 46<br>1.811    | 10<br>0.394    | 58<br>2.283    | 6.1<br>0.240   | 2.0<br>0.079   |
| 40<br>1 7/16<br>1 1/2<br>1 5/8  | UK309D1;H2309X<br>UK309D1;HA2309<br>UK309D1;HE2309X<br>UK309D1;HS2309X | 45<br>1.7717       | 100<br>3.9370 | 37<br>1.4567 | 29<br>1.1417 | 63.5<br>2.500  | 40<br>1 7/16<br>1 1/2<br>1 5/8  | 50<br>1.969    | 11<br>0.433    | 65<br>2.559    | 7.1<br>0.280   | 2.0<br>0.079   |
| 45<br>1 5/8<br>1 11/16<br>1 3/4 | UK310D1;H2310X<br>UK310D1;HS2310<br>UK310D1;HA2310<br>UK310D1;HE2310X  | 50<br>1.9685       | 110<br>4.3307 | 41<br>1.6142 | 32<br>1.2598 | 70.6<br>2.780  | 45<br>1 5/8<br>1 11/16<br>1 3/4 | 55<br>2.165    | 12<br>0.472    | 70<br>2.756    | 7.9<br>0.311   | 2.0<br>0.079   |
| 50<br>1 7/8<br>1 15/16<br>2     | UK311D1;H2311X<br>UK311D1;HS2311<br>UK311D1;HA2311<br>UK311D1;HE2311XY | 55<br>2.1654       | 120<br>4.7244 | 44<br>1.7323 | 34<br>1.3386 | 76.6<br>3.016  | 50<br>1 7/8<br>1 15/16<br>2     | 59<br>2.323    | 12<br>0.472    | 75<br>2.953    | 8.5<br>0.335   | 3.0<br>0.118   |
| 55<br>2 1/8                     | UK312D1;H2312X<br>UK312D1;HS2312                                       | 60<br>2.3622       | 130<br>5.1181 | 47<br>1.8504 | 36<br>1.4173 | 82.7<br>3.256  | 55<br>2 1/8                     | 62<br>2.441    | 13<br>0.512    | 80<br>3.150    | 9.0<br>0.354   | 2.0<br>0.079   |
| 60<br>2 3/16<br>2 1/4<br>2 3/8  | UK313D1;H2313X<br>UK313D1;HA2313<br>UK313D1;HE2313X<br>UK313D1;HS2313X | 65<br>2.5591       | 140<br>5.5118 | 49<br>1.9291 | 39<br>1.5354 | 88.2<br>3.472  | 60<br>2 3/16<br>2 1/4<br>2 3/8  | 65<br>2.559    | 14<br>0.551    | 85<br>3.346    | 9.4<br>0.370   | 2.0<br>0.079   |

Remarks: 1) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

In this case the lock washer with the straight inner prong should be used.

2) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.

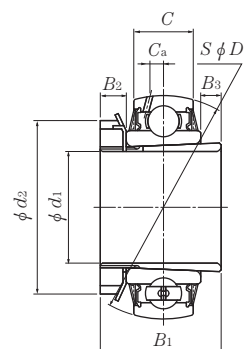
To distinguish it, a suffix "Y" is added.

3) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

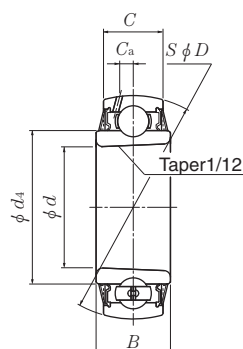
| Basic load ratings |                  | Factor <sup>3)</sup> | Mass<br>(approx.)            |
|--------------------|------------------|----------------------|------------------------------|
| $C_r$              | $C_{or}$         | $f_0$                | kg lb                        |
| 21 200<br>4 750    | 10 900<br>2 460  | 12.6                 | 0.36<br>0.81                 |
| 26 700<br>6 000    | 15 000<br>3 400  | 13.3                 | 0.59<br>1.37<br>1.29         |
| 33 500<br>7 500    | 19 100<br>4 300  | 13.1                 | 0.75<br>1.70                 |
| 40 500<br>9 150    | 24 000<br>5 400  | 13.2                 | 1.00<br>2.38<br>2.25         |
| 53 000<br>11 900   | 32 000<br>7 200  | 13.1                 | 1.28<br>3.22<br>3.14<br>2.97 |
| 62 000<br>13 900   | 38 500<br>8 600  | 13.2                 | 1.72<br>3.95<br>3.85<br>3.74 |
| 71 500<br>16 100   | 45 000<br>10 100 | 13.2                 | 2.06<br>4.73<br>4.60<br>4.46 |
| 82 000<br>18 400   | 52 000<br>11 700 | 13.2                 | 2.58<br>5.67                 |
| 92 500<br>20 800   | 60 000<br>13 400 | 13.2                 | 3.08<br>7.24<br>7.08<br>6.76 |

## Ball bearings

### Adapter type



Bearing with adapter assembly  
UKxxxD1 ; H23xx



Bearing  
UKxxD1



Standard : Seal + Slinger



Triple Sealed  
UKxxxD1LLJ ; H23xx  
Example : UK305D1LLJ ; H2305X

| Shaft<br>dia.                                                          | Bearing number <sup>1) 2)</sup>                      | Nominal dimensions |               |              |              |                |                                                                        |             |             |              |               |              |
|------------------------------------------------------------------------|------------------------------------------------------|--------------------|---------------|--------------|--------------|----------------|------------------------------------------------------------------------|-------------|-------------|--------------|---------------|--------------|
|                                                                        |                                                      | mm                 |               |              |              |                | inch                                                                   |             |             |              |               |              |
|                                                                        |                                                      | d                  | D             | B            | C            | d4             | d1                                                                     | B1          | B2          | d2           | Ca            | B3           |
| 65<br>2 <sup>7</sup> / <sub>16</sub><br>2 <sup>1</sup> / <sub>2</sub>  | UK315D1;H2315X<br>UK315D1;HA2315<br>UK315D1;HE2315X  | 75<br>2.9528       | 160<br>6.2992 | 55<br>2.1654 | 43<br>1.6929 | 101.3<br>3.988 | 65<br>2 <sup>7</sup> / <sub>16</sub><br>2 <sup>1</sup> / <sub>2</sub>  | 73<br>2.874 | 15<br>0.591 | 98<br>3.858  | 10.5<br>0.413 | 3.0<br>0.118 |
| 70<br>2 <sup>11</sup> / <sub>16</sub><br>2 <sup>3</sup> / <sub>4</sub> | UK316D1;H2316X<br>UK316D1;HA2316<br>UK316D1;HE2316X  | 80<br>3.1496       | 170<br>6.6929 | 58<br>2.2835 | 45<br>1.7717 | 107.9<br>4.248 | 70<br>2 <sup>11</sup> / <sub>16</sub><br>2 <sup>3</sup> / <sub>4</sub> | 78<br>3.071 | 17<br>0.669 | 105<br>4.134 | 11.1<br>0.437 | 3.0<br>0.118 |
| 75<br>2 <sup>15</sup> / <sub>16</sub><br>3                             | UK317D1;H2317X<br>UK317D1;HA2317X<br>UK317D1;HE2317X | 85<br>3.3465       | 180<br>7.0866 | 60<br>2.3622 | 47<br>1.8504 | 114.4<br>4.504 | 75<br>2 <sup>15</sup> / <sub>16</sub><br>3                             | 82<br>3.228 | 18<br>0.709 | 110<br>4.331 | 11.5<br>0.453 | 4.0<br>0.157 |
| 80<br>3 <sup>1</sup> / <sub>16</sub>                                   | UK318D1;H2318X<br>UK318D1;HA2318X                    | 90<br>3.5433       | 190<br>7.4803 | 64<br>2.5197 | 49<br>1.9291 | 120.9<br>4.760 | 80<br>3 <sup>1</sup> / <sub>16</sub>                                   | 86<br>3.386 | 18<br>0.709 | 120<br>4.724 | 12.2<br>0.480 | 4.0<br>0.157 |
| 85<br>3 <sup>1</sup> / <sub>4</sub>                                    | UK319D1;H2319X<br>UK319D1;HE2319X                    | 95<br>3.7402       | 200<br>7.8740 | 67<br>2.6378 | 51<br>2.0079 | 127.5<br>5.020 | 85<br>3 <sup>1</sup> / <sub>4</sub>                                    | 90<br>3.543 | 19<br>0.748 | 125<br>4.921 | 12.7<br>0.500 | 4.0<br>0.157 |
| 90<br>3 <sup>7</sup> / <sub>16</sub><br>3 <sup>1</sup> / <sub>2</sub>  | UK320D1;H2320X<br>UK320D1;HA2320<br>UK320D1;HE2320X  | 100<br>3.9370      | 215<br>8.4646 | 73<br>2.8740 | 55<br>2.1654 | 135.6<br>5.339 | 90<br>3 <sup>7</sup> / <sub>16</sub><br>3 <sup>1</sup> / <sub>2</sub>  | 97<br>3.819 | 20<br>0.787 | 130<br>5.118 | 14.0<br>0.551 | 4.0<br>0.157 |
| 100                                                                    | UK322D1;H2322X                                       | 110                | 240           | 80           | 59           | 151.7          | 100                                                                    | 105         | 21          | 145          | 15.6          | 4.0          |
| 110                                                                    | UK324D1;H2324X                                       | 120                | 260           | 86           | 63           | 165.2          | 110                                                                    | 112         | 22          | 155          | 15.5          | 4.0          |
| 115                                                                    | UK326D1;H2326                                        | 130                | 280           | 90           | 67           | 178.3          | 115                                                                    | 121         | 23          | 165          | 16.6          | 8.0          |
| 125                                                                    | UK328D1;H2328                                        | 140                | 300           | 95           | 71           | 190.4          | 125                                                                    | 131         | 24          | 180          | 17.8          | 12.0         |

Remarks: 1) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

In this case the lock washer with the straight inner prong should be used.

2) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.

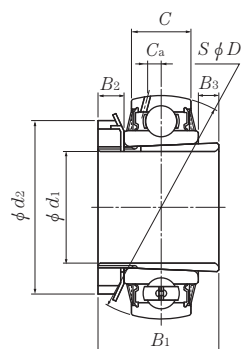
To distinguish it, a suffix "Y" is added.

3) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

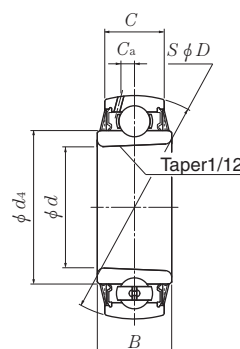
| Basic load ratings |          | Factor <sup>3)</sup> | Mass<br>(approx.) |
|--------------------|----------|----------------------|-------------------|
| $C_r$              | $C_{or}$ | $f_0$                | kg lb             |
| 113 000            | 77 000   | 13.2                 | 4.75              |
| 25 500             | 17 400   |                      | 11.1<br>10.9      |
| 123 000            | 86 500   | 13.3                 | 5.75              |
| 27 600             | 19 500   |                      | 12.9<br>12.7      |
| 133 000            | 97 000   | 13.3                 | 6.72              |
| 29 800             | 21 800   |                      | 14.9<br>14.6      |
| 143 000            | 107 000  | 13.3                 | 7.75              |
| 32 000             | 24 100   |                      | 17.2              |
| 153 000            | 119 000  | 13.3                 | 9.02              |
| 34 500             | 26 600   |                      | 20.4              |
| 173 000            | 141 000  | 13.2                 | 11.0              |
| 39 000             | 31 500   |                      | 24.7<br>25.1      |
| 205 000            | 179 000  | 13.1                 | 14.9              |
| 207 000            | 185 000  | 13.5                 | 18.0              |
| 229 000            | 214 000  | 13.6                 | 23.3              |
| 253 000            | 246 000  | 13.6                 | 28.6              |

# Ball bearings

## Adapter type



Bearing with adapter assembly  
UKxxxD1 ; H23xx



Bearing  
UKxxD1

| Shaft<br>dia.                   | Bearing number <sup>1) 2)</sup>                                        | Nominal dimensions |               |              |              |                |                                 |                |                |                |                |                |
|---------------------------------|------------------------------------------------------------------------|--------------------|---------------|--------------|--------------|----------------|---------------------------------|----------------|----------------|----------------|----------------|----------------|
|                                 |                                                                        | mm                 |               |              |              |                | inch                            |                |                |                |                |                |
|                                 |                                                                        | d                  | D             | B            | C            | d <sub>4</sub> | d <sub>1</sub>                  | B <sub>1</sub> | B <sub>2</sub> | d <sub>2</sub> | C <sub>a</sub> | B <sub>3</sub> |
| 20<br>3/4                       | UKX05D1;H2305X<br>UKX05D1;HE2305                                       | 25<br>0.9843       | 62<br>2.4409  | 26<br>1.0236 | 19<br>0.7480 | 40.8<br>1.606  | 20<br>3/4                       | 35<br>1.378    | 8<br>0.315     | 38<br>1.496    | 4.9<br>0.193   | 1.0<br>0.039   |
| 25<br>7/8<br>1                  | UKX06D1;H2306X<br>UKX06D1;HS2306<br>UKX06D1;HE2306X                    | 30<br>1.1811       | 72<br>2.8346  | 29<br>1.1417 | 20<br>0.7874 | 46.8<br>1.843  | 25<br>7/8<br>1                  | 38<br>1.496    | 8<br>0.315     | 45<br>1.772    | 5.4<br>0.213   | 1.0<br>0.039   |
| 30<br>1 1/8                     | UKX07D1;H2307X<br>UKX07D1;HS2307                                       | 35<br>1.3780       | 80<br>3.1496  | 31<br>1.2205 | 21<br>0.8268 | 53<br>2.087    | 30<br>1 1/8                     | 43<br>1.693    | 9<br>0.354     | 52<br>2.047    | 6.0<br>0.236   | 3.0<br>0.118   |
| 35<br>1 1/4<br>1 3/8            | UKX08D1;H2308X<br>UKX08D1;HE2308X<br>UKX08D1;HS2308X                   | 40<br>1.5748       | 85<br>3.3465  | 31<br>1.2205 | 22<br>0.8661 | 57.5<br>2.264  | 35<br>1 1/4<br>1 3/8            | 46<br>1.811    | 10<br>0.394    | 58<br>2.283    | 6.1<br>0.240   | 5.0<br>0.197   |
| 40<br>1 7/16<br>1 1/2<br>1 5/8  | UKX09D1;H2309X<br>UKX09D1;HA2309<br>UKX09D1;HE2309X<br>UKX09D1;HS2309X | 45<br>1.7717       | 90<br>3.5433  | 32<br>1.2598 | 24<br>0.9449 | 62.4<br>2.457  | 40<br>1 7/16<br>1 1/2<br>1 5/8  | 50<br>1.969    | 11<br>0.433    | 65<br>2.559    | 6.1<br>0.240   | 7.0<br>0.276   |
| 45<br>1 5/8<br>1 11/16<br>1 3/4 | UKX10D1;H2310X<br>UKX10D1;HS2310<br>UKX10D1;HA2310<br>UKX10D1;HE2310X  | 50<br>1.9685       | 100<br>3.9370 | 35<br>1.3780 | 25<br>0.9843 | 69<br>2.717    | 45<br>1 5/8<br>1 11/16<br>1 3/4 | 55<br>2.165    | 12<br>0.472    | 70<br>2.756    | 6.5<br>0.256   | 8.0<br>0.315   |
| 50<br>1 7/8<br>1 15/16<br>2     | UKX11D1;H2311X<br>UKX11D1;HS2311<br>UKX11D1;HA2311<br>UKX11D1;HE2311XY | 55<br>2.1654       | 110<br>4.3307 | 38<br>1.4961 | 27<br>1.0630 | 77<br>3.031    | 50<br>1 7/8<br>1 15/16<br>2     | 59<br>2.323    | 12<br>0.472    | 75<br>2.953    | 7.3<br>0.287   | 9.0<br>0.354   |
| 55<br>2 1/8                     | UKX12D1;H2312X<br>UKX12D1;HS2312                                       | 60<br>2.3622       | 120<br>4.7244 | 40<br>1.5748 | 32<br>1.2598 | 82.5<br>3.248  | 55<br>2 1/8                     | 62<br>2.441    | 13<br>0.512    | 80<br>3.150    | 7.3<br>0.287   | 9.0<br>0.354   |
| 60<br>2 3/16<br>2 1/4<br>2 3/8  | UKX13D1;H2313X<br>UKX13D1;HA2313<br>UKX13D1;HE2313X<br>UKX13D1;HS2313X | 65<br>2.5591       | 125<br>4.9213 | 42<br>1.6535 | 33<br>1.2992 | 87<br>3.425    | 60<br>2 3/16<br>2 1/4<br>2 3/8  | 65<br>2.559    | 14<br>0.551    | 85<br>3.346    | 7.7<br>0.303   | 9.0<br>0.354   |

Remarks: 1) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

In this case the lock washer with the straight inner prong should be used.

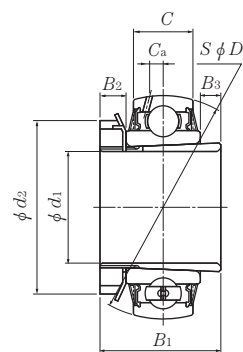
2) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.

To distinguish it, a suffix "Y" is added.

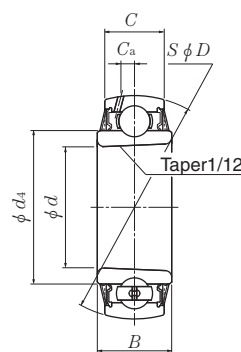
3) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

| Basic load ratings    |                           | Factor <sup>3)</sup> | Mass<br>(approx.)            |
|-----------------------|---------------------------|----------------------|------------------------------|
| N<br>dynamic<br>$C_r$ | lbf<br>static<br>$C_{or}$ | $f_0$                | kg lb                        |
| 19 500<br>4 400       | 11 300<br>2 540           | 13.8                 | 0.38<br>0.85                 |
| 25 700<br>5 750       | 15 300<br>3 450           | 13.8                 | 0.53<br>1.24<br>1.16         |
| 29 100<br>6 550       | 17 800<br>4 000           | 14.0                 | 0.75<br>1.70                 |
| 32 500<br>7 350       | 20 400<br>4 600           | 14.1                 | 0.85<br>2.01<br>1.88         |
| 35 000<br>7 900       | 23 200<br>5 200           | 14.4                 | 0.97<br>2.32<br>2.24<br>2.07 |
| 43 500<br>9 750       | 29 200<br>6 550           | 14.3                 | 1.26<br>3.09<br>2.99<br>2.88 |
| 52 500<br>11 800      | 36 000<br>8 150           | 14.3                 | 1.62<br>3.84<br>3.72<br>3.58 |
| 57 500<br>12 900      | 40 000<br>9 000           | 14.4                 | 2.07<br>4.66                 |
| 62 000<br>14 000      | 44 000<br>9 900           | 14.5                 | 2.19<br>5.28<br>5.12<br>4.79 |

## Ball bearings Adapter type



Bearing with adapter assembly  
UKxxxD1 ; H23xx



Bearing  
UKxxD1

| Shaft<br>dia.                                                          | Bearing number <sup>1) 2)</sup>                      | Nominal dimensions |               |              |              |                |                                                                        |                |                |                |                |                |  |  |
|------------------------------------------------------------------------|------------------------------------------------------|--------------------|---------------|--------------|--------------|----------------|------------------------------------------------------------------------|----------------|----------------|----------------|----------------|----------------|--|--|
|                                                                        |                                                      |                    |               |              |              |                | mm                                                                     | inch           |                |                |                |                |  |  |
|                                                                        |                                                      | d                  | D             | B            | C            | d <sub>4</sub> | d <sub>1</sub>                                                         | B <sub>1</sub> | B <sub>2</sub> | d <sub>2</sub> | C <sub>a</sub> | B <sub>3</sub> |  |  |
| 65<br>2 <sup>7</sup> / <sub>16</sub><br>2 <sup>1</sup> / <sub>2</sub>  | UKX15D1;H2315X<br>UKX15D1;HA2315<br>UKX15D1;HE2315X  | 75<br>2.9528       | 140<br>5.5118 | 45<br>1.7717 | 35<br>1.3780 | 98.1<br>3.862  | 65<br>2 <sup>7</sup> / <sub>16</sub><br>2 <sup>1</sup> / <sub>2</sub>  | 73<br>2.874    | 15<br>0.591    | 98<br>3.858    | 8.0<br>0.315   | 13.0<br>0.512  |  |  |
| 70<br>2 <sup>11</sup> / <sub>16</sub><br>2 <sup>3</sup> / <sub>4</sub> | UKX16D1;H2316X<br>UKX16D1;HA2316<br>UKX16D1;HE2316X  | 80<br>3.1496       | 150<br>5.9055 | 46<br>1.8110 | 36<br>1.4173 | 106.4<br>4.189 | 70<br>2 <sup>11</sup> / <sub>16</sub><br>2 <sup>3</sup> / <sub>4</sub> | 78<br>3.071    | 17<br>0.669    | 105<br>4.134   | 7.9<br>0.311   | 15.0<br>0.591  |  |  |
| 75<br>2 <sup>15</sup> / <sub>16</sub><br>3                             | UKX17D1;H2317X<br>UKX17D1;HA2317X<br>UKX17D1;HE2317X | 85<br>3.3465       | 160<br>6.2992 | 47<br>1.8504 | 37<br>1.4567 | 111.6<br>4.394 | 75<br>2 <sup>15</sup> / <sub>16</sub><br>3                             | 82<br>3.228    | 18<br>0.709    | 110<br>4.331   | 8.7<br>0.343   | 17.0<br>0.669  |  |  |
| 80<br>3 <sup>3</sup> / <sub>16</sub>                                   | UKX18D1;H2318X<br>UKX18D1;HA2318X                    | 90<br>3.5433       | 170<br>6.6929 | 49<br>1.9291 | 39<br>1.5354 | 118.2<br>4.654 | 80<br>3 <sup>3</sup> / <sub>16</sub>                                   | 86<br>3.386    | 18<br>0.709    | 120<br>4.724   | 9.0<br>0.354   | 19.0<br>0.748  |  |  |
| 90                                                                     | UKX20D1;H2320X                                       | 100                | 190           | 57           | 44           | 131.3          | 90                                                                     | 97             | 20             | 130            | 10.7           | 20.0           |  |  |

Remarks: 1) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

In this case the lock washer with the straight inner prong should be used.

2) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.  
To distinguish it, a suffix "Y" is added.

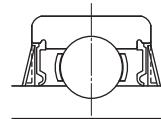
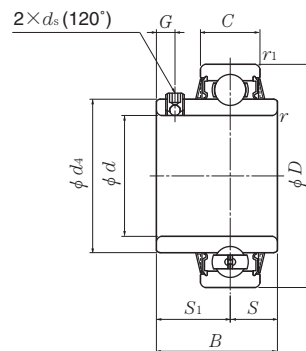
3) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

| Basic load ratings                                              |                                                                     | Factor <sup>3)</sup> | Mass<br>(approx.) |      |
|-----------------------------------------------------------------|---------------------------------------------------------------------|----------------------|-------------------|------|
| $\begin{matrix} \text{N} \\ \text{dynamic} \\ C_r \end{matrix}$ | $\begin{matrix} \text{lbf} \\ \text{static} \\ C_{or} \end{matrix}$ | $f_0$                | kg                | lb   |
| 72 500                                                          | 53 000                                                              | 14.6                 | 3.25              |      |
| 16 300                                                          | 11 900                                                              |                      | 7.47              | 7.27 |
| 83 500                                                          | 64 000                                                              | 14.7                 | 3.87              |      |
| 18 700                                                          | 14 300                                                              |                      | 8.79              | 8.56 |
| 96 000                                                          | 71 500                                                              | 14.5                 | 4.53              |      |
| 21 600                                                          | 16 100                                                              |                      | 10.6              | 10.3 |
| 109 000                                                         | 82 000                                                              | 14.4                 | 5.17              |      |
| 24 500                                                          | 18 400                                                              |                      | 11.2              |      |
| 133 000                                                         | 105 000                                                             | 14.4                 | 7.39              |      |

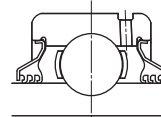


# Ball bearings

## Set screw type



Standard : Seal + Slinger



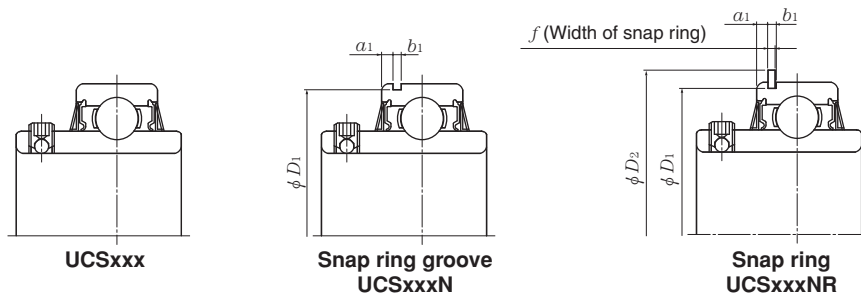
Triple Sealed  
UCSxxxD1LLJ  
Example : UCS205LD1LLJ

| Shaft<br>dia.<br><br>mm<br>inch | Bearing number <sup>1)</sup> | Nominal dimensions |           |             |           |                                    |                                       |             |                      |            |                  |
|---------------------------------|------------------------------|--------------------|-----------|-------------|-----------|------------------------------------|---------------------------------------|-------------|----------------------|------------|------------------|
|                                 |                              | <i>d</i>           | <i>D</i>  | <i>B</i>    | <i>C</i>  | mm<br><i>r<sub>s</sub></i><br>min. | inch<br><i>r<sub>1s</sub></i><br>min. | <i>S</i>    | <i>S<sub>1</sub></i> | <i>G</i>   | <i>ds</i>        |
| <b>12</b>                       | <b>UCS201LD1N</b>            | <b>12</b>          | <b>47</b> | <b>31</b>   | <b>17</b> | <b>0.6</b>                         | <b>0.6</b>                            | <b>12.7</b> | <b>18.3</b>          | <b>4.5</b> | <b>M5 × 0.8</b>  |
| <b>1/2</b>                      | <b>UCS201-008LD1N</b>        | 0.5000             | 1.8504    | 1.2205      | 0.6693    | 0.024                              | 0.024                                 | 0.500       | 0.720                | 0.177      | No.10-32UNF      |
| <b>15</b>                       | <b>UCS202LD1N</b>            | <b>15</b>          | <b>47</b> | <b>31</b>   | <b>17</b> | <b>0.6</b>                         | <b>0.6</b>                            | <b>12.7</b> | <b>18.3</b>          | <b>4.5</b> | <b>M5 × 0.8</b>  |
| <b>9/16</b>                     | <b>UCS202-009LD1N</b>        | 0.5625             | 1.8504    | 1.2205      | 0.6693    | 0.024                              | 0.024                                 | 0.500       | 0.720                | 0.177      | No.10-32UNF      |
| <b>5/8</b>                      | <b>UCS202-010LD1N</b>        | 0.6250             |           |             |           |                                    |                                       |             |                      |            |                  |
| <b>17</b>                       | <b>UCS203LD1N</b>            | <b>17</b>          | <b>47</b> | <b>31</b>   | <b>17</b> | <b>0.6</b>                         | <b>0.6</b>                            | <b>12.7</b> | <b>18.3</b>          | <b>4.5</b> | <b>M5 × 0.8</b>  |
| <b>11/16</b>                    | <b>UCS203-011LD1N</b>        | 0.6875             | 1.8504    | 1.2205      | 0.6693    | 0.024                              | 0.024                                 | 0.500       | 0.720                | 0.177      | No.10-32UNF      |
| <b>20</b>                       | <b>UCS204LD1N</b>            | <b>20</b>          | <b>47</b> | <b>31</b>   | <b>17</b> | <b>1</b>                           | <b>0.6</b>                            | <b>12.7</b> | <b>18.3</b>          | <b>4.5</b> | <b>M5 × 0.8</b>  |
| <b>3/4</b>                      | <b>UCS204-012LD1N</b>        | 0.7500             | 1.8504    | 1.2205      | 0.6693    | 0.039                              | 0.024                                 | 0.500       | 0.720                | 0.177      | No.10-32UNF      |
| <b>25</b>                       | <b>UCS205LD1N</b>            | <b>25</b>          | <b>52</b> | <b>34.1</b> | <b>17</b> | <b>1</b>                           | <b>0.6</b>                            | <b>14.3</b> | <b>19.8</b>          | <b>5</b>   | <b>M5 × 0.8</b>  |
| <b>13/16</b>                    | <b>UCS205-013LD1N</b>        | 0.8125             |           |             |           |                                    |                                       |             |                      |            |                  |
| <b>7/8</b>                      | <b>UCS205-014LD1N</b>        | 0.8750             | 2.0472    | 1.3425      | 0.6693    | 0.039                              | 0.024                                 | 0.563       | 0.780                | 0.197      | No.10-32UNF      |
| <b>15/16</b>                    | <b>UCS205-015LD1N</b>        | 0.9375             |           |             |           |                                    |                                       |             |                      |            |                  |
| <b>1</b>                        | <b>UCS205-100LD1N</b>        | 1.0000             |           |             |           |                                    |                                       |             |                      |            |                  |
| <b>30</b>                       | <b>UCS206LD1N</b>            | <b>30</b>          | <b>62</b> | <b>38.1</b> | <b>19</b> | <b>1</b>                           | <b>1</b>                              | <b>15.9</b> | <b>22.2</b>          | <b>5</b>   | <b>M6 × 0.75</b> |
| <b>1 1/16</b>                   | <b>UCS206-101LD1N</b>        | 1.0625             |           |             |           |                                    |                                       |             |                      |            |                  |
| <b>1 1/8</b>                    | <b>UCS206-102LD1N</b>        | 1.1250             | 2.4409    | 1.5000      | 0.7480    | 0.039                              | 0.039                                 | 0.626       | 0.874                | 0.197      | 1/4-28UNF        |
| <b>1 3/16</b>                   | <b>UCS206-103LD1N</b>        | 1.1875             |           |             |           |                                    |                                       |             |                      |            |                  |
| <b>1 1/4</b>                    | <b>UCS206-104LD1N</b>        | 1.2500             |           |             |           |                                    |                                       |             |                      |            |                  |
| <b>35</b>                       | <b>UCS207LD1N</b>            | <b>35</b>          | <b>72</b> | <b>42.9</b> | <b>20</b> | <b>1.5</b>                         | <b>1.5</b>                            | <b>17.5</b> | <b>25.4</b>          | <b>6</b>   | <b>M6 × 0.75</b> |
| <b>1 1/4</b>                    | <b>UCS207-104LD1N</b>        | 1.2500             |           |             |           |                                    |                                       |             |                      |            |                  |
| <b>1 5/16</b>                   | <b>UCS207-105LD1N</b>        | 1.3125             | 2.8346    | 1.6890      | 0.7874    | 0.059                              | 0.059                                 | 0.689       | 1.000                | 0.236      | 1/4-28UNF        |
| <b>1 3/8</b>                    | <b>UCS207-106LD1N</b>        | 1.3750             |           |             |           |                                    |                                       |             |                      |            |                  |
| <b>1 7/16</b>                   | <b>UCS207-107LD1N</b>        | 1.4375             |           |             |           |                                    |                                       |             |                      |            |                  |
| <b>40</b>                       | <b>UCS208LD1N</b>            | <b>40</b>          | <b>80</b> | <b>49.2</b> | <b>21</b> | <b>1.5</b>                         | <b>1.5</b>                            | <b>19</b>   | <b>30.2</b>          | <b>8</b>   | <b>M8 × 1</b>    |
| <b>1 1/2</b>                    | <b>UCS208-108LD1N</b>        | 1.5000             | 3.1496    | 1.9370      | 0.8268    | 0.059                              | 0.059                                 | 0.748       | 1.189                | 0.315      | 5/16-24UNF       |
| <b>1 9/16</b>                   | <b>UCS208-109LD1N</b>        | 1.5625             |           |             |           |                                    |                                       |             |                      |            |                  |

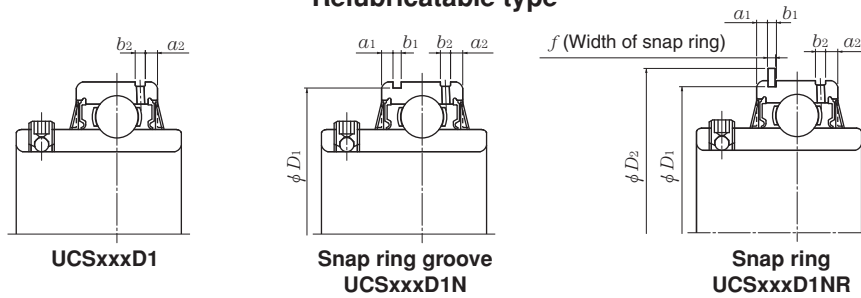
Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

2) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

## Maintenance free type



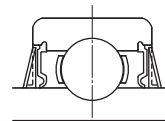
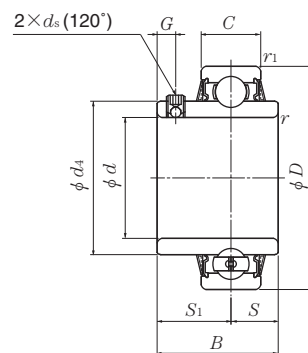
## Relubricatable type



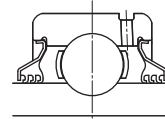
| Nominal dimensions |       |       |             |               |       |       |              | Basic load ratings    |                           | Factor <sup>2)</sup> | Mass (approx.) |    |
|--------------------|-------|-------|-------------|---------------|-------|-------|--------------|-----------------------|---------------------------|----------------------|----------------|----|
| $d_4$              | $D_1$ | $f$   | mm<br>$a_1$ | inch<br>$b_1$ | $a_2$ | $b_2$ | $D_{2 \max}$ | N<br>dynamic<br>$C_r$ | lbf<br>static<br>$C_{or}$ | $f_0$                | kg             | lb |
| 29.6               | 44.6  | 1.07  | 3.1         | 1.5           | 2.9   | 3.0   | 52.7         | 12 800                | 6 650                     | 13.2                 | 0.21           |    |
| 1.1654             | 1.756 | 0.042 | 0.122       | 0.059         | 0.114 | 0.118 | 2.075        | 2 890                 | 1 500                     |                      | 0.46           |    |
| 29.6               | 44.6  | 1.07  | 3.1         | 1.5           | 2.9   | 3.0   | 52.7         | 12 800                | 6 650                     | 13.2                 | 0.20           |    |
| 1.1654             | 1.756 | 0.042 | 0.122       | 0.059         | 0.114 | 0.118 | 2.075        | 2 890                 | 1 500                     |                      | 0.44           |    |
|                    |       |       |             |               |       |       |              |                       |                           |                      | 0.42           |    |
| 29.6               | 44.6  | 1.07  | 3.1         | 1.5           | 2.9   | 3.0   | 52.7         | 12 800                | 6 650                     | 13.2                 | 0.18           |    |
| 1.1654             | 1.756 | 0.042 | 0.122       | 0.059         | 0.114 | 0.118 | 2.075        | 2 890                 | 1 500                     |                      | 0.39           |    |
| 29.6               | 44.6  | 1.07  | 3.1         | 1.5           | 2.9   | 3.0   | 52.7         | 12 800                | 6 650                     | 13.2                 | 0.17           |    |
| 1.1654             | 1.756 | 0.042 | 0.122       | 0.059         | 0.114 | 0.118 | 2.075        | 2 890                 | 1 500                     |                      | 0.39           |    |
| 33.9               | 49.73 | 1.07  | 3.2         | 1.5           | 3.0   | 3.0   | 57.9         | 14 000                | 7 850                     | 13.9                 | 0.20           |    |
|                    |       |       |             |               |       |       |              |                       |                           |                      | 0.53           |    |
| 1.3346             | 1.958 | 0.042 | 0.126       | 0.059         | 0.118 | 0.118 | 2.280        | 3 150                 | 1 770                     |                      | 0.51           |    |
|                    |       |       |             |               |       |       |              |                       |                           |                      | 0.46           |    |
|                    |       |       |             |               |       |       |              |                       |                           |                      | 0.44           |    |
| 40.8               | 59.61 | 1.65  | 3.2         | 2.05          | 3.2   | 3.0   | 67.7         | 19 500                | 11 300                    | 13.8                 | 0.34           |    |
|                    |       |       |             |               |       |       |              |                       |                           |                      | 0.82           |    |
| 1.6063             | 2.374 | 0.065 | 0.126       | 0.081         | 0.126 | 0.118 | 2.665        | 4 400                 | 2 540                     |                      | 0.77           |    |
|                    |       |       |             |               |       |       |              |                       |                           |                      | 0.73           |    |
|                    |       |       |             |               |       |       |              |                       |                           |                      | 0.66           |    |
| 46.8               | 68.81 | 1.65  | 3.3         | 2.05          | 3.5   | 3.5   | 78.6         | 25 700                | 15 300                    | 13.8                 | 0.48           |    |
|                    |       |       |             |               |       |       |              |                       |                           |                      | 1.21           |    |
| 1.8425             | 2.709 | 0.065 | 0.130       | 0.081         | 0.138 | 0.138 | 3.094        | 5 750                 | 3 450                     |                      | 1.15           |    |
|                    |       |       |             |               |       |       |              |                       |                           |                      | 1.08           |    |
|                    |       |       |             |               |       |       |              |                       |                           |                      | 1.01           |    |
| 53                 | 76.81 | 1.65  | 3.4         | 2.05          | 3.5   | 3.5   | 86.6         | 29 100                | 17 800                    | 14.0                 | 0.64           |    |
|                    |       |       |             |               |       |       |              |                       |                           |                      | 1.52           |    |
| 2.0866             | 3.024 | 0.065 | 0.134       | 0.081         | 0.138 | 0.138 | 3.409        | 4 000                 |                           |                      | 1.46           |    |

# Ball bearings

## Set screw type



Standard : Seal + Slinger



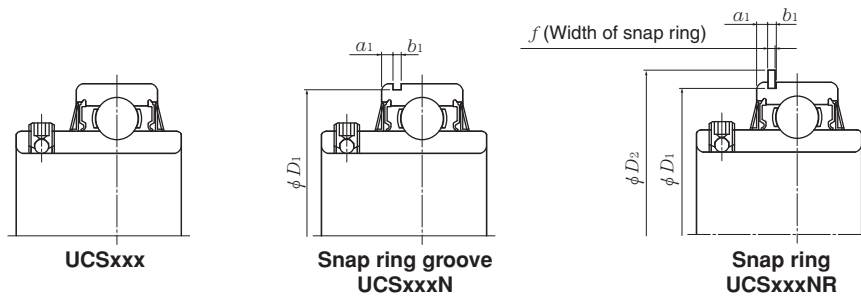
Triple Sealed  
UCSxxxD1LLJ  
Example : UCS205LD1LLJ

| Shaft<br>dia.<br><br>mm<br>inch                                             | Bearing number <sup>1)</sup>                                                                                          | Nominal dimensions                                |                            |                             |                           |                                    |                                       |                      |                      |                    |                                                   |
|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|----------------------------|-----------------------------|---------------------------|------------------------------------|---------------------------------------|----------------------|----------------------|--------------------|---------------------------------------------------|
|                                                                             |                                                                                                                       | <i>d</i>                                          | <i>D</i>                   | <i>B</i>                    | <i>C</i>                  | mm<br><i>r<sub>s</sub></i><br>min. | inch<br><i>r<sub>1s</sub></i><br>min. | <i>S</i>             | <i>S<sub>1</sub></i> | <i>G</i>           | <i>ds</i>                                         |
| <b>45</b><br><b>1 5/8</b><br><b>1 11/16</b><br><b>1 3/4</b>                 | <b>UCS209LD1N</b><br><b>UCS209-110LD1N</b><br><b>UCS209-111LD1N</b><br><b>UCS209-112LD1N</b>                          | <b>45</b><br>1.6250<br>1.6875<br>1.7500           | <b>85</b><br><br><br>      | <b>49.2</b><br><br><br>     | <b>22</b><br><br><br>     | <b>1.5</b><br>0.059                | <b>1.5</b><br>0.059                   | <b>19</b><br>0.748   | <b>30.2</b><br>1.189 | <b>8</b><br>0.315  | <b>M8 × 1</b><br><br><br><b>5/16-24UNF</b>        |
| <b>50</b><br><b>1 13/16</b><br><b>1 7/8</b><br><b>1 15/16</b><br><b>2</b>   | <b>UCS210LD1N</b><br><b>UCS210-113LD1N</b><br><b>UCS210-114LD1N</b><br><b>UCS210-115LD1N</b><br><b>UCS210-200LD1N</b> | <b>50</b><br>1.8125<br>1.8750<br>1.9375<br>2.0000 | <b>90</b><br><br><br><br>  | <b>51.6</b><br><br><br><br> | <b>24</b><br><br><br><br> | <b>1.5</b><br>0.059                | <b>1.5</b><br>0.059                   | <b>19</b><br>0.748   | <b>32.6</b><br>1.283 | <b>9</b><br>0.354  | <b>M8 × 1</b><br><br><br><br><b>5/16-24UNF</b>    |
| <b>55</b><br><b>2</b><br><b>2 1/16</b><br><b>2 1/8</b><br><b>2 3/16</b>     | <b>UCS211LD1N</b><br><b>UCS211-200LD1N</b><br><b>UCS211-201LD1N</b><br><b>UCS211-202LD1N</b><br><b>UCS211-203LD1N</b> | <b>55</b><br>2.0000<br>2.0625<br>2.1250<br>2.1875 | <b>100</b><br><br><br><br> | <b>55.6</b><br><br><br><br> | <b>25</b><br><br><br><br> | <b>2</b><br>0.079                  | <b>2</b><br>0.079                     | <b>22.2</b><br>0.874 | <b>33.4</b><br>1.315 | <b>9</b><br>0.354  | <b>M8 × 1</b><br><br><br><br><b>5/16-24UNF</b>    |
| <b>60</b><br><b>2 1/4</b><br><b>2 5/16</b><br><b>2 3/8</b><br><b>2 7/16</b> | <b>UCS212LD1N</b><br><b>UCS212-204LD1N</b><br><b>UCS212-205LD1N</b><br><b>UCS212-206LD1N</b><br><b>UCS212-207LD1N</b> | <b>60</b><br>2.2500<br>2.3125<br>2.3750<br>2.4375 | <b>110</b><br><br><br><br> | <b>65.1</b><br><br><br><br> | <b>27</b><br><br><br><br> | <b>2</b><br>0.079                  | <b>2</b><br>0.079                     | <b>25.4</b><br>1.000 | <b>39.7</b><br>1.563 | <b>10</b><br>0.394 | <b>M10 × 1.25</b><br><br><br><br><b>3/8-24UNF</b> |
| <b>65</b><br><b>2 1/2</b><br><b>2 9/16</b>                                  | <b>UCS213D1</b><br><b>UCS213-208D1</b><br><b>UCS213-209D1</b>                                                         | <b>65</b><br>2.5000<br>2.5625                     | <b>120</b><br>4.7244       | <b>65.1</b><br>2.5630       | <b>32</b><br>1.2598       | <b>2</b><br>0.079                  | <b>2</b><br>0.079                     | <b>25.4</b><br>1.000 | <b>39.7</b><br>1.563 | <b>10</b><br>0.394 | <b>M10 × 1.25</b><br><br><b>3/8-24UNF</b>         |
| <b>70</b>                                                                   | <b>UCS214D1</b>                                                                                                       | <b>70</b>                                         | <b>125</b>                 | <b>74.6</b>                 | <b>33</b>                 | <b>2</b>                           | <b>2</b>                              | <b>30.2</b>          | <b>44.4</b>          | <b>12</b>          | <b>M10 × 1.25</b>                                 |
| <b>75</b>                                                                   | <b>UCS215D1</b>                                                                                                       | <b>75</b>                                         | <b>130</b>                 | <b>77.8</b>                 | <b>34</b>                 | <b>2</b>                           | <b>2</b>                              | <b>33.3</b>          | <b>44.5</b>          | <b>12</b>          | <b>M10 × 1.25</b>                                 |
| <b>80</b>                                                                   | <b>UCS216D1</b>                                                                                                       | <b>80</b>                                         | <b>140</b>                 | <b>82.6</b>                 | <b>35</b>                 | <b>2.5</b>                         | <b>2.5</b>                            | <b>33.3</b>          | <b>49.3</b>          | <b>12</b>          | <b>M10 × 1.25</b>                                 |
| <b>85</b>                                                                   | <b>UCS217D1</b>                                                                                                       | <b>85</b>                                         | <b>150</b>                 | <b>85.7</b>                 | <b>36</b>                 | <b>2.5</b>                         | <b>2.5</b>                            | <b>34.1</b>          | <b>51.6</b>          | <b>12</b>          | <b>M12 × 1.5</b>                                  |
| <b>90</b>                                                                   | <b>UCS218D1</b>                                                                                                       | <b>90</b>                                         | <b>160</b>                 | <b>96</b>                   | <b>37</b>                 | <b>2.5</b>                         | <b>2.5</b>                            | <b>39.7</b>          | <b>56.3</b>          | <b>12</b>          | <b>M12 × 1.5</b>                                  |

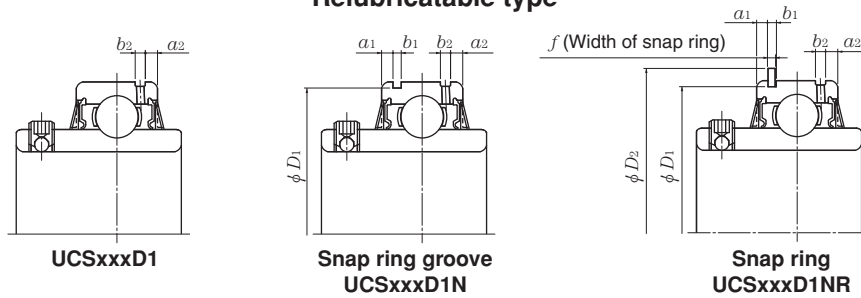
Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

2) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

## Maintenance free type



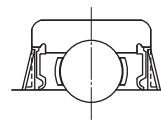
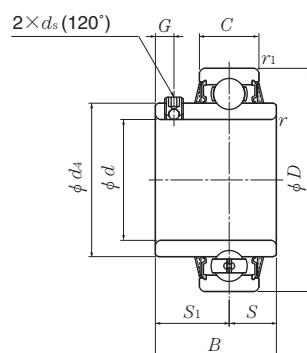
## Relubricatable type



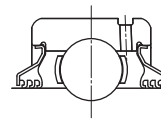
| Nominal dimensions |        |       |             |               |       |       |              | Basic load ratings            |                           | Factor <sup>2)</sup> | Mass (approx.) |      |
|--------------------|--------|-------|-------------|---------------|-------|-------|--------------|-------------------------------|---------------------------|----------------------|----------------|------|
| $d_4$              | $D_1$  | $f$   | mm<br>$a_1$ | inch<br>$b_1$ | $a_2$ | $b_2$ | $D_{2 \max}$ | N<br>dynamic<br>$C_r$         | lbf<br>static<br>$C_{or}$ | $f_0$                | kg             | lb   |
| 57.5               | 81.81  | 1.65  | 3.5         | 2.05          | 3.6   | 3.5   | 91.6         | 32 500                        | 20 400                    | 14.1                 | 0.70           | 1.76 |
| 2.2638             | 3.221  | 0.065 | 0.138       | 0.081         | 0.142 | 0.138 | 3.606        | 7 350                         | 4 600                     |                      | 1.68           | 1.57 |
| 62.4               | 86.79  | 2.41  | 3.7         | 2.85          | 4.1   | 3.5   | 96.5         | 35 000                        | 23 200                    | 14.4                 | 0.78           | 2.03 |
| 2.4567             | 3.417  | 0.095 | 0.146       | 0.112         | 0.161 | 0.138 | 3.799        | 7 900                         | 5 200                     |                      | 1.92           | 1.81 |
| 69                 | 96.80  | 2.41  | 4.4         | 2.85          | 4.4   | 3.5   | 106.5        | 43 500                        | 29 200                    | 14.3                 | 1.06           | 2.60 |
| 2.7165             | 3.811  | 0.095 | 0.173       | 0.112         | 0.173 | 0.138 | 4.193        | 2.71<br>9 750<br>2.46<br>2.34 | 6 550                     |                      | 3.78           | 3.62 |
| 77                 | 106.81 | 2.41  | 4.4         | 2.85          | 4.4   | 3.5   | 116.6        | 52 500                        | 36 000                    | 14.3                 | 3.45           | 3.29 |
| 3.0315             | 4.205  | 0.095 | 0.173       | 0.112         | 0.173 | 0.138 | 4.591        | 11 800                        | 8 150                     |                      | 4.24           | 4.24 |
| 82.5               | —      | —     | —           | —             | —     | —     | —            | 57 500                        | 40 000                    | 14.4                 | 1.88           | 4.41 |
| 3.2480             | —      | —     | —           | —             | —     | —     | —            | 12 900                        | 9 000                     |                      | 4.24           | 4.24 |
| 87                 | —      | —     | —           | —             | —     | —     | —            | 62 000                        | 44 000                    | 14.5                 | 2.17           | 2.17 |
| 93                 | —      | —     | —           | —             | —     | —     | —            | 66 000                        | 49 500                    | 14.7                 | 2.43           | 2.43 |
| 98.1               | —      | —     | —           | —             | —     | —     | —            | 72 500                        | 53 000                    | 14.6                 | 2.89           | 2.89 |
| 106.4              | —      | —     | —           | —             | —     | —     | —            | 83 500                        | 64 000                    | 14.7                 | 3.47           | 3.47 |
| 111.6              | —      | —     | —           | —             | —     | —     | —            | 96 000                        | 71 500                    | 14.5                 | 4.24           | 4.24 |

# Ball bearings

## Set screw type



Standard : Seal + Slinger



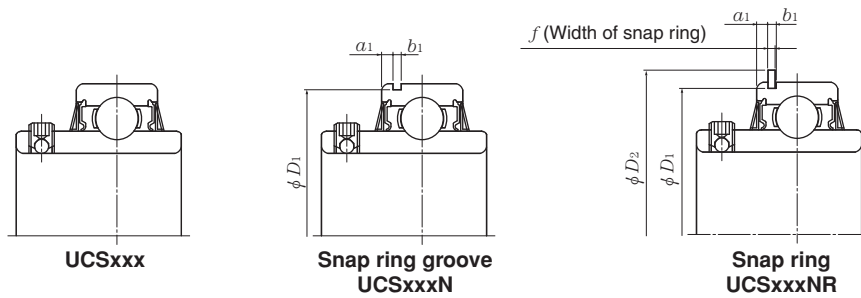
Triple Sealed  
UCSxxxD1LLJ  
Example : UCS305D1LLJ

| Shaft dia.<br><br>mm<br>inch                     | Bearing number <sup>1)</sup>                                                                                | Nominal dimensions                                |                          |                         |                         |                                    |                                       |                        |                        |                        |                                    |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------|--------------------------|-------------------------|-------------------------|------------------------------------|---------------------------------------|------------------------|------------------------|------------------------|------------------------------------|
|                                                  |                                                                                                             | <i>d</i>                                          | <i>D</i>                 | <i>B</i>                | <i>C</i>                | mm<br><i>r<sub>s</sub></i><br>min. | inch<br><i>r<sub>1s</sub></i><br>min. | <i>S</i>               | <i>S<sub>1</sub></i>   | <i>G</i>               | <i>ds</i>                          |
| <b>25</b><br>1 3/16<br>7/8<br>1 5/16<br><b>1</b> | <b>UCS305D1</b><br><b>UCS305-013D1</b><br><b>UCS305-014D1</b><br><b>UCS305-015D1</b><br><b>UCS305-100D1</b> | <b>25</b><br>0.8125<br>0.8750<br>0.9375<br>1.0000 | <b>62</b><br><br>2.4409  | <b>38</b><br><br>1.4961 | <b>20</b><br><br>0.7874 | <b>1.5</b><br><br>0.059            | <b>0.6</b><br><br>0.024               | <b>15</b><br><br>0.591 | <b>23</b><br><br>0.906 | <b>6</b><br><br>0.236  | <b>M6 × 0.75</b><br><br>1/4-28UNF  |
| <b>30</b><br>1 1/16<br>1 1/8<br>1 3/16           | <b>UCS306D1</b><br><b>UCS306-101D1</b><br><b>UCS306-102D1</b><br><b>UCS306-103D1</b>                        | <b>30</b><br>1.0625<br>1.1250<br>1.1875           | <b>72</b><br><br>2.8346  | <b>43</b><br><br>1.6929 | <b>23</b><br><br>0.9055 | <b>1.5</b><br><br>0.059            | <b>1</b><br><br>0.039                 | <b>17</b><br><br>0.669 | <b>26</b><br><br>1.024 | <b>6</b><br><br>0.236  | <b>M6 × 0.75</b><br><br>1/4-28UNF  |
| <b>35</b><br>1 1/4<br>1 5/16<br>1 3/8<br>1 7/16  | <b>UCS307D1</b><br><b>UCS307-104D1</b><br><b>UCS307-105D1</b><br><b>UCS307-106D1</b><br><b>UCS307-107D1</b> | <b>35</b><br>1.2500<br>1.3125<br>1.3750<br>1.4375 | <b>80</b><br><br>3.1496  | <b>48</b><br><br>1.8898 | <b>25</b><br><br>0.9843 | <b>2</b><br><br>0.079              | <b>1</b><br><br>0.039                 | <b>19</b><br><br>0.748 | <b>29</b><br><br>1.142 | <b>8</b><br><br>0.315  | <b>M8 × 1</b><br><br>5/16-24UNF    |
| <b>40</b><br>1 1/2<br>1 9/16                     | <b>UCS308D1</b><br><b>UCS308-108D1</b><br><b>UCS308-109D1</b>                                               | <b>40</b><br>1.5000<br>1.5625                     | <b>90</b><br><br>3.5433  | <b>52</b><br><br>2.0472 | <b>27</b><br><br>1.0630 | <b>2</b><br><br>0.079              | <b>1</b><br><br>0.039                 | <b>19</b><br><br>0.748 | <b>33</b><br><br>1.299 | <b>10</b><br><br>0.394 | <b>M10 × 1.25</b><br><br>3/8-24UNF |
| <b>45</b><br>1 5/8<br>1 11/16<br>1 3/4           | <b>UCS309D1</b><br><b>UCS309-110D1</b><br><b>UCS309-111D1</b><br><b>UCS309-112D1</b>                        | <b>45</b><br>1.6250<br>1.6875<br>1.7500           | <b>100</b><br><br>3.9370 | <b>57</b><br><br>2.2441 | <b>29</b><br><br>1.1417 | <b>2</b><br><br>0.079              | <b>1</b><br><br>0.039                 | <b>22</b><br><br>0.866 | <b>35</b><br><br>1.378 | <b>10</b><br><br>0.394 | <b>M10 × 1.25</b><br><br>3/8-24UNF |
| <b>50</b><br>1 13/16<br>1 7/8<br>1 15/16         | <b>UCS310D1</b><br><b>UCS310-113D1</b><br><b>UCS310-114D1</b><br><b>UCS310-115D1</b>                        | <b>50</b><br>1.8125<br>1.8750<br>1.9375           | <b>110</b><br><br>4.3307 | <b>61</b><br><br>2.4016 | <b>32</b><br><br>1.2598 | <b>2.5</b><br><br>0.098            | <b>1.5</b><br><br>0.059               | <b>22</b><br><br>0.866 | <b>39</b><br><br>1.535 | <b>12</b><br><br>0.472 | <b>M12 × 1.5</b><br><br>1/2-20UNF  |

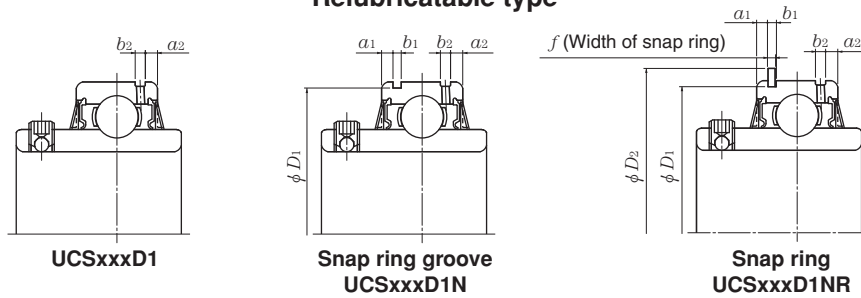
Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

2) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

## Maintenance free type



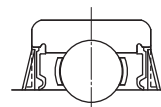
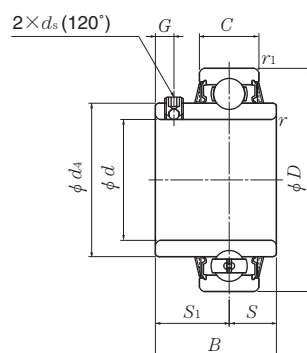
## Relubricatable type



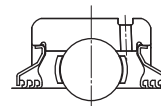
| Nominal dimensions |       |       |       |       |       |              |        | Basic load ratings |                    | Factor <sup>2)</sup> | Mass (approx.)       |
|--------------------|-------|-------|-------|-------|-------|--------------|--------|--------------------|--------------------|----------------------|----------------------|
|                    |       |       | mm    | inch  |       |              |        | N                  | lbf                |                      | kg lb                |
| $d_4$              | $f$   | $a_1$ | $b_1$ | $a_2$ | $b_2$ | $D_{2 \max}$ | $D_1$  | dynamic<br>$C_r$   | static<br>$C_{or}$ | $f_0$                |                      |
| 36.8               | 1.65  | 3.5   | 2.05  | 2.60  | 3.5   | 67.7         | 59.61  | 21 200             | 10 900             | 12.6                 | 0.37<br>0.94         |
| 1.4488             | 0.065 | 0.138 | 0.081 | 0.102 | 0.138 | 2.665        | 2.347  | 4 750              | 2 460              |                      | 0.90<br>0.83<br>0.81 |
| 44.9               | 1.65  | 3.7   | 2.05  | 3.4   | 3.5   | 78.6         | 68.81  | 26 700             | 15 000             | 13.3                 | 0.58<br>1.39         |
| 1.7677             | 0.065 | 0.146 | 0.081 | 0.134 | 0.138 | 3.094        | 2.709  | 6 000              | 3 400              |                      | 1.33<br>1.28         |
| 49.4               | 1.65  | 3.7   | 2.05  | 3.6   | 3.5   | 86.6         | 76.81  | 33 500             | 19 100             | 13.1                 | 0.74<br>1.77         |
| 1.9449             | 0.065 | 0.146 | 0.081 | 0.142 | 0.138 | 3.409        | 3.024  | 7 500              | 4 300              |                      | 1.70<br>1.64<br>1.57 |
| 56                 | 2.41  | 4.0   | 2.85  | 3.8   | 3.5   | 96.5         | 86.79  | 40 500             | 24 000             | 13.2                 | 1.00<br>2.32         |
| 2.2047             | 0.095 | 0.157 | 0.112 | 0.150 | 0.138 | 3.799        | 3.417  | 9 150              | 5 400              |                      | 2.23                 |
| 63.5               | 2.41  | 4.5   | 2.85  | 4.2   | 3.5   | 106.5        | 96.8   | 53 000             | 32 000             | 13.1                 | 1.33<br>3.17         |
| 2.5000             | 0.095 | 0.177 | 0.112 | 0.165 | 0.138 | 4.193        | 3.811  | 11 900             | 7 200              |                      | 3.09<br>2.98         |
| 70.6               | 2.41  | 4.5   | 2.85  | 4.3   | 4.0   | 116.6        | 106.81 | 62 000             | 38 500             | 13.2                 | 1.72<br>4.10         |
| 2.7795             | 0.095 | 0.177 | 0.112 | 0.169 | 0.157 | 4.591        | 4.205  | 13 900             | 8 600              |                      | 3.99<br>3.85         |

# Ball bearings

## Set screw type



Standard : Seal + Slinger



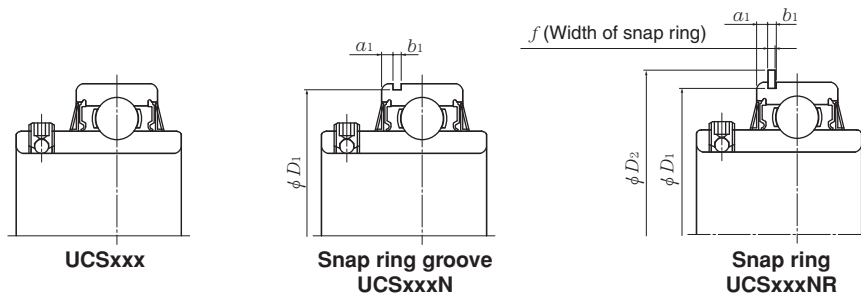
Triple Sealed  
UCSxxxD1LLJ  
Example : UCS305D1LLJ

| Shaft<br>dia.<br><br>mm<br>inch | Bearing number <sup>1)</sup> | Nominal dimensions |            |           |           |                                    |                                       |           |                      |           |                  |
|---------------------------------|------------------------------|--------------------|------------|-----------|-----------|------------------------------------|---------------------------------------|-----------|----------------------|-----------|------------------|
|                                 |                              | <i>d</i>           | <i>D</i>   | <i>B</i>  | <i>C</i>  | mm<br><i>r<sub>s</sub></i><br>min. | inch<br><i>r<sub>1s</sub></i><br>min. | <i>S</i>  | <i>S<sub>1</sub></i> | <i>G</i>  | <i>ds</i>        |
| <b>55</b>                       | <b>UCS311D1</b>              | <b>55</b>          | <b>120</b> | <b>66</b> | <b>34</b> | <b>2.5</b>                         | <b>1.5</b>                            | <b>25</b> | <b>41</b>            | <b>12</b> | <b>M12 × 1.5</b> |
| <b>2</b>                        | <b>UCS311-200D1</b>          | 2.0000             |            |           |           |                                    |                                       |           |                      |           |                  |
| <b>2 1/16</b>                   | <b>UCS311-201D1</b>          | 2.0625             | 4.7244     | 2.5984    | 1.3386    | 0.098                              | 0.059                                 | 0.984     | 1.614                | 0.472     | 1/2-20UNF        |
| <b>2 1/8</b>                    | <b>UCS311-202D1</b>          | 2.1250             |            |           |           |                                    |                                       |           |                      |           |                  |
| <b>2 3/16</b>                   | <b>UCS311-203D1</b>          | 2.1875             |            |           |           |                                    |                                       |           |                      |           |                  |
| <b>60</b>                       | <b>UCS312D1</b>              | <b>60</b>          | <b>130</b> | <b>71</b> | <b>36</b> | <b>2.5</b>                         | <b>1.5</b>                            | <b>26</b> | <b>45</b>            | <b>12</b> | <b>M12 × 1.5</b> |
| <b>2 1/4</b>                    | <b>UCS312-204D1</b>          | 2.2500             |            |           |           |                                    |                                       |           |                      |           |                  |
| <b>2 5/16</b>                   | <b>UCS312-205D1</b>          | 2.3125             | 5.1181     | 2.7953    | 1.4173    | 0.098                              | 0.059                                 | 1.024     | 1.772                | 0.472     | 1/2-20UNF        |
| <b>2 3/8</b>                    | <b>UCS312-206D1</b>          | 2.3750             |            |           |           |                                    |                                       |           |                      |           |                  |
| <b>2 7/16</b>                   | <b>UCS312-207D1</b>          | 2.4375             |            |           |           |                                    |                                       |           |                      |           |                  |
| <b>65</b>                       | <b>UCS313D1</b>              | <b>65</b>          | <b>140</b> | <b>75</b> | <b>39</b> | <b>2.5</b>                         | <b>2</b>                              | <b>30</b> | <b>45</b>            | <b>12</b> | <b>M12 × 1.5</b> |
| <b>2 1/2</b>                    | <b>UCS313-208D1</b>          | 2.5000             | 5.5118     | 2.9528    | 1.5354    | 0.098                              | 0.079                                 | 1.181     | 1.772                | 0.472     | 1/2-20UNF        |
| <b>2 9/16</b>                   | <b>UCS313-209D1</b>          | 2.5625             |            |           |           |                                    |                                       |           |                      |           |                  |
| <b>70</b>                       | <b>UCS314D1</b>              | <b>70</b>          | <b>150</b> | <b>78</b> | <b>41</b> | <b>2.5</b>                         | <b>2</b>                              | <b>33</b> | <b>45</b>            | <b>12</b> | <b>M12 × 1.5</b> |
| <b>2 5/8</b>                    | <b>UCS314-210D1</b>          | 2.6250             |            |           |           |                                    |                                       |           |                      |           |                  |
| <b>2 11/16</b>                  | <b>UCS314-211D1</b>          | 2.6875             | 5.9055     | 3.0709    | 1.6142    | 0.098                              | 0.079                                 | 1.299     | 1.772                | 0.472     | 1/2-20UNF        |
| <b>2 3/4</b>                    | <b>UCS314-212D1</b>          | 2.7500             |            |           |           |                                    |                                       |           |                      |           |                  |
| <b>75</b>                       | <b>UCS315D1</b>              | <b>75</b>          | <b>160</b> | <b>82</b> | <b>43</b> | <b>2.5</b>                         | <b>2</b>                              | <b>32</b> | <b>50</b>            | <b>14</b> | <b>M14 × 1.5</b> |
| <b>2 13/16</b>                  | <b>UCS315-213D1</b>          | 2.8125             |            |           |           |                                    |                                       |           |                      |           |                  |
| <b>2 7/8</b>                    | <b>UCS315-214D1</b>          | 2.8750             | 6.2992     | 3.2283    | 1.6929    | 0.098                              | 0.079                                 | 1.260     | 1.969                | 0.551     | 9/16-18UNF       |
| <b>2 15/16</b>                  | <b>UCS315-215D1</b>          | 2.9375             |            |           |           |                                    |                                       |           |                      |           |                  |
| <b>3</b>                        | <b>UCS315-300D1</b>          | 3.0000             |            |           |           |                                    |                                       |           |                      |           |                  |
| <b>80</b>                       | <b>UCS316D1</b>              | <b>80</b>          | <b>170</b> | <b>86</b> | <b>45</b> | <b>2.5</b>                         | <b>2</b>                              | <b>34</b> | <b>52</b>            | <b>14</b> | <b>M14 × 1.5</b> |
| <b>3 1/16</b>                   | <b>UCS316-301D1</b>          | 3.0625             |            |           |           |                                    |                                       |           |                      |           |                  |
| <b>3 1/8</b>                    | <b>UCS316-302D1</b>          | 3.1250             | 6.6929     | 3.3858    | 1.7717    | 0.098                              | 0.079                                 | 1.339     | 2.047                | 0.551     | 9/16-18UNF       |
| <b>3 3/16</b>                   | <b>UCS316-303D1</b>          | 3.1875             |            |           |           |                                    |                                       |           |                      |           |                  |

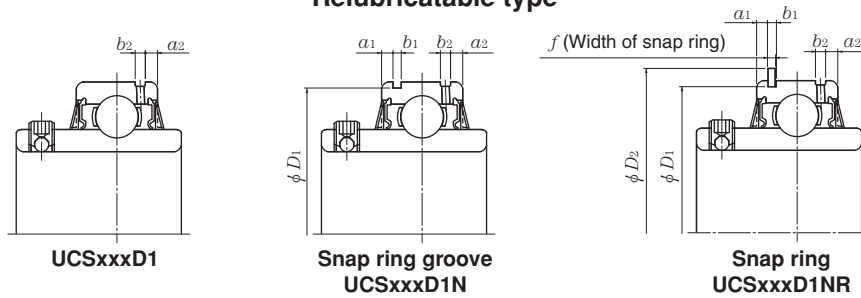
Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

2) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

## Maintenance free type



## Relubricatable type

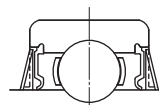
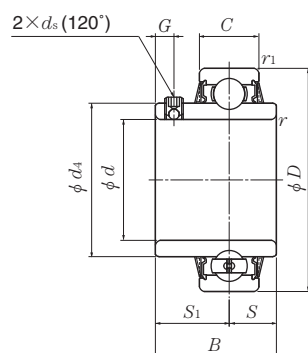


| Nominal dimensions |       |       |       |       |       |             |        | Basic load ratings |                    | Factor <sup>2)</sup> | Mass (approx.)       |
|--------------------|-------|-------|-------|-------|-------|-------------|--------|--------------------|--------------------|----------------------|----------------------|
|                    |       |       | mm    | inch  |       |             |        | N                  | lbf                |                      | kg lb                |
| $d_4$              | $f$   | $a_1$ | $b_1$ | $a_2$ | $b_2$ | $D_{2\max}$ | $D_1$  | dynamic<br>$C_r$   | static<br>$C_{or}$ | $f_0$                |                      |
| 76.6               | 2.77  | 4.5   | 3.25  | 4.5   | 4.0   | 129.7       | 115.21 | 71 500             | 45 000             | 13.2                 | 2.15<br>5.14         |
| 3.0157             | 0.109 | 0.177 | 0.128 | 0.177 | 0.157 | 5.106       | 4.536  | 16 100             | 10 100             |                      | 4.99<br>4.85<br>4.68 |
| 82.7               | 2.77  | 4.5   | 3.25  | 4.7   | 4.0   | 139.7       | 125.22 | 82 000             | 52 000             | 13.2                 | 2.70<br>6.27         |
| 3.2559             | 0.109 | 0.177 | 0.128 | 0.185 | 0.157 | 5.500       | 4.930  | 18 400             | 11 700             |                      | 6.10<br>5.89<br>5.72 |
| 88.2               | 2.77  | 5.0   | 3.25  | 5.5   | 4.0   | 149.7       | 135.23 | 92 500             | 60 000             | 13.2                 | 3.37<br>7.63         |
| 3.4724             | 0.109 | 0.197 | 0.128 | 0.217 | 0.157 | 5.894       | 5.324  | 20 800             | 13 400             |                      | 7.41                 |
| 94.8               | 2.77  | 5.0   | 3.25  | 5.5   | 4.0   | 159.7       | 145.24 | 104 000            | 68 000             | 13.2                 | 4.03<br>9.37         |
| 3.7323             | 0.109 | 0.197 | 0.128 | 0.217 | 0.157 | 6.287       | 5.718  | 23 400             | 15 300             |                      | 9.13<br>8.91         |
| 101.3              | 2.77  | 5.0   | 3.25  | 5.7   | 4.0   | 169.7       | 155.22 | 113 000            | 77 000             | 13.2                 | 4.88<br>11.4         |
| 3.9882             | 0.109 | 0.197 | 0.128 | 0.224 | 0.157 | 6.681       | 6.111  | 25 500             | 17 400             |                      | 11.1<br>10.9<br>10.6 |
| 107.9              | 3.05  | 5.5   | 3.65  | 5.8   | 4.0   | 182.9       | 163.65 | 123 000            | 86 500             | 13.3                 | 5.74<br>13.0         |
| 4.2480             | 0.120 | 0.217 | 0.144 | 0.228 | 0.157 | 7.201       | 6.443  | 27 600             | 19 500             |                      | 12.7<br>12.5         |

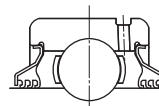


# Ball bearings

## Set screw type



Standard : Seal + Slinger



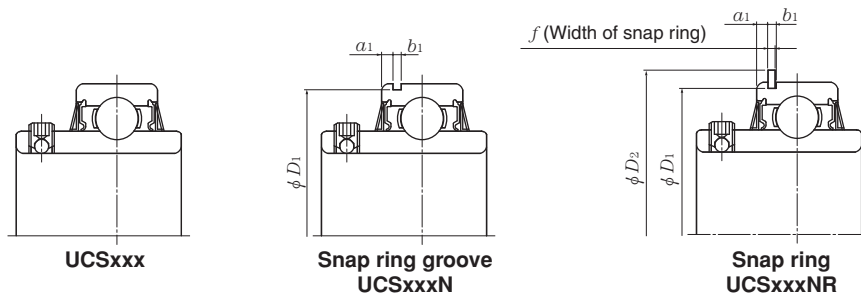
Triple Sealed  
UCSxxxD1LLJ  
Example : UCS305D1LLJ

| Shaft<br>dia.                      | Bearing number <sup>1)</sup> | Nominal dimensions |            |           |           |                                    |                                       |           |                      |           |                                    |
|------------------------------------|------------------------------|--------------------|------------|-----------|-----------|------------------------------------|---------------------------------------|-----------|----------------------|-----------|------------------------------------|
|                                    |                              | <i>d</i>           | <i>D</i>   | <i>B</i>  | <i>C</i>  | mm<br><i>r<sub>s</sub></i><br>min. | inch<br><i>r<sub>1s</sub></i><br>min. | <i>S</i>  | <i>S<sub>1</sub></i> | <i>G</i>  | <i>ds</i>                          |
| <b>85</b>                          | <b>UCS317D1</b>              | <b>85</b>          | <b>180</b> | <b>96</b> | <b>47</b> | <b>3</b>                           | <b>2.5</b>                            | <b>40</b> | <b>56</b>            | <b>16</b> | <b>M16 × 1.5</b>                   |
| <b>3<sup>1</sup>/<sub>4</sub></b>  | <b>UCS317-304D1</b>          | 3.2500             |            |           |           |                                    |                                       |           |                      |           |                                    |
| <b>3<sup>5</sup>/<sub>16</sub></b> | <b>UCS317-305D1</b>          | 3.3125             | 7.0866     | 3.7795    | 1.8504    | 0.118                              | 0.098                                 | 1.575     | 2.205                | 0.630     | <sup>5</sup> / <sub>8</sub> -18UNF |
| <b>3<sup>7</sup>/<sub>16</sub></b> | <b>UCS317-307D1</b>          | 3.4375             |            |           |           |                                    |                                       |           |                      |           |                                    |
| <b>90</b>                          | <b>UCS318D1</b>              | <b>90</b>          | <b>190</b> | <b>96</b> | <b>49</b> | <b>3</b>                           | <b>2.5</b>                            | <b>40</b> | <b>56</b>            | <b>16</b> | <b>M16 × 1.5</b>                   |
| <b>3<sup>7</sup>/<sub>16</sub></b> | <b>UCS318-307D1</b>          | 3.4375             | 7.4803     | 3.7795    | 1.9291    | 0.118                              | 0.098                                 | 1.575     | 2.205                | 0.630     | <sup>5</sup> / <sub>8</sub> -18UNF |
| <b>3<sup>1</sup>/<sub>2</sub></b>  | <b>UCS318-308D1</b>          | 3.5000             |            |           |           |                                    |                                       |           |                      |           |                                    |

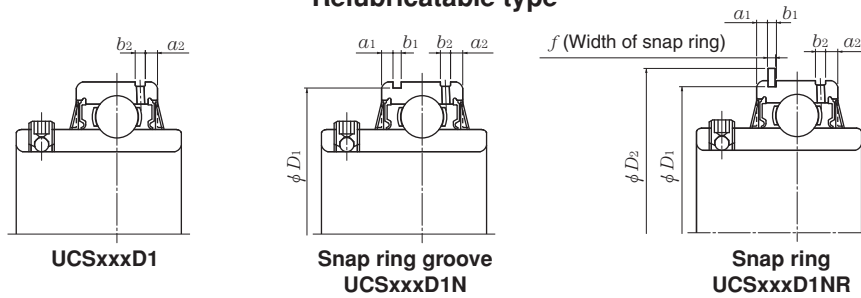
Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

2) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

## Maintenance free type

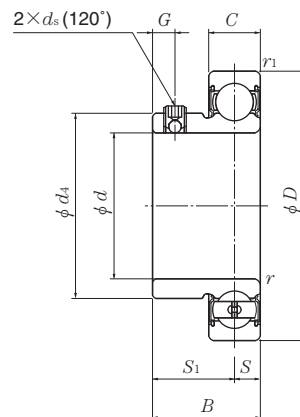


## Relubricatable type



| Nominal dimensions |       |       |       |       |       |             |        | Basic load ratings    |                           | Factor <sup>2)</sup> | Mass<br>(approx.) |
|--------------------|-------|-------|-------|-------|-------|-------------|--------|-----------------------|---------------------------|----------------------|-------------------|
|                    |       |       | mm    | inch  |       |             |        | N<br>dynamic<br>$C_r$ | lbf<br>static<br>$C_{or}$ | $f_0$                | kg lb             |
| $d_4$              | $f$   | $a_1$ | $b_1$ | $a_2$ | $b_2$ | $D_{2\max}$ | $D_1$  |                       |                           |                      |                   |
| 114.4              | 3.05  | 6.0   | 3.65  | 6.2   | 4.0   | 192.9       | 173.66 | 133 000               | 97 000                    | 13.3                 | 6.88              |
| 4.5039             | 0.120 | 0.236 | 0.144 | 0.244 | 0.157 | 7.594       | 6.837  | 29 800                | 21 800                    |                      | 15.7              |
|                    |       |       |       |       |       |             |        |                       |                           |                      | 15.4              |
|                    |       |       |       |       |       |             |        |                       |                           |                      | 14.7              |
| 120.9              | 3.05  | 6.0   | 3.65  | 6.2   | 4.5   | 202.9       | 183.64 | 143 000               | 107 000                   | 13.3                 | 7.80              |
| 4.7598             | 0.120 | 0.236 | 0.144 | 0.244 | 0.177 | 7.988       | 7.230  | 32 000                | 24 100                    |                      | 17.8              |
|                    |       |       |       |       |       |             |        |                       |                           |                      | 17.4              |

# Ball bearings Set screw type

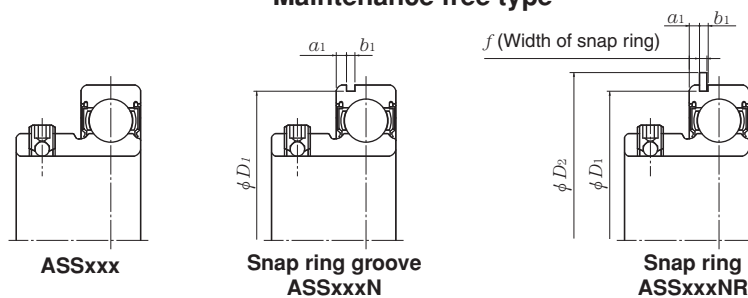


| Shaft<br>dia.<br><br>mm<br>inch                                                     | Bearing number <sup>1)</sup>                                                                           | Nominal dimensions                         |              |              |              |                     |                        |              |               |              |                                   |               |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------|--------------|--------------|---------------------|------------------------|--------------|---------------|--------------|-----------------------------------|---------------|
|                                                                                     |                                                                                                        | $d$                                        | $D$          | $B$          | $C$          | $r_s$<br>mm<br>min. | $r_{1s}$<br>mm<br>min. | inch<br>$S$  | $S_1$         | $G$          | $d_s$                             | $d_4$         |
| <b>12</b><br>$\frac{1}{2}$                                                          | <b>ASS201N</b><br><b>ASS201-008N</b>                                                                   | 12<br>0.5000                               | 40<br>1.5748 | 22<br>0.8661 | 12<br>0.4724 | 0.6<br>0.024        | 0.6<br>0.024           | 6<br>0.236   | 16<br>0.630   | 4.2<br>0.165 | M5 × 0.8<br>No.10-32UNF           | 24.3<br>0.957 |
| <b>15</b><br>$\frac{9}{16}$<br>$\frac{5}{8}$                                        | <b>ASS202N</b><br><b>ASS202-009N</b><br><b>ASS202-010N</b>                                             | 15<br>0.5625<br>0.6250                     | 40<br>1.5748 | 22<br>0.8661 | 12<br>0.4724 | 0.6<br>0.024        | 0.6<br>0.024           | 6<br>0.236   | 16<br>0.630   | 4.2<br>0.165 | M5 × 0.8<br>No.10-32UNF           | 24.3<br>0.957 |
| <b>17</b><br>$\frac{11}{16}$                                                        | <b>ASS203N</b><br><b>ASS203-011N</b>                                                                   | 17<br>0.6875                               | 40<br>1.5748 | 22<br>0.8661 | 12<br>0.4724 | 0.6<br>0.024        | 0.6<br>0.024           | 6<br>0.236   | 16<br>0.630   | 4.2<br>0.165 | M5 × 0.8<br>No.10-32UNF           | 24.3<br>0.957 |
| <b>20</b><br>$\frac{3}{4}$                                                          | <b>ASS204N</b><br><b>ASS204-012N</b>                                                                   | 20<br>0.7500                               | 47<br>1.8504 | 25<br>0.9843 | 14<br>0.5512 | 1<br>0.039          | 0.6<br>0.024           | 7<br>0.276   | 18<br>0.709   | 4.2<br>0.165 | M5 × 0.8<br>No.10-32UNF           | 29.6<br>1.165 |
| <b>25</b><br>$\frac{13}{16}$<br>$\frac{7}{8}$<br>$\frac{15}{16}$<br><b>1</b>        | <b>ASS205N</b><br><b>ASS205-013N</b><br><b>ASS205-014N</b><br><b>ASS205-015N</b><br><b>ASS205-100N</b> | 25<br>0.8125<br>0.8750<br>0.9375<br>1.0000 | 52<br>2.0472 | 27<br>1.0630 | 15<br>0.5906 | 1<br>0.039          | 0.6<br>0.024           | 7.5<br>0.295 | 19.5<br>0.768 | 5<br>0.197   | M5 × 0.8<br>No.10-32UNF           | 33.9<br>1.335 |
| <b>30</b><br>$1\frac{1}{16}$<br>$1\frac{1}{8}$<br>$1\frac{3}{16}$<br>$1\frac{1}{4}$ | <b>ASS206N</b><br><b>ASS206-010N</b><br><b>ASS206-012N</b><br><b>ASS206-013N</b><br><b>ASS206-014N</b> | 30<br>1.0625<br>1.1250<br>1.1875<br>1.2500 | 62<br>2.4409 | 29<br>1.1417 | 16<br>0.6299 | 1<br>0.039          | 0.6<br>0.024           | 8<br>0.315   | 21<br>0.827   | 5<br>0.197   | M6 × 0.75<br>$\frac{1}{4}$ -28UNF | 40.8<br>1.606 |
| <b>35</b><br>$1\frac{1}{4}$<br>$1\frac{5}{16}$<br>$1\frac{3}{8}$<br>$1\frac{7}{16}$ | <b>ASS207N</b><br><b>ASS207-014N</b><br><b>ASS207-015N</b><br><b>ASS207-016N</b><br><b>ASS207-017N</b> | 35<br>1.2500<br>1.3125<br>1.3750<br>1.4375 | 72<br>2.8346 | 34<br>1.3386 | 17<br>0.6693 | 1.5<br>0.059        | 0.6<br>0.024           | 8.5<br>0.335 | 25.5<br>1.004 | 6<br>0.236   | M6 × 0.75<br>$\frac{1}{4}$ -28UNF | 46.8<br>1.843 |
| <b>40</b><br>$1\frac{1}{2}$<br>$1\frac{9}{16}$                                      | <b>ASS208N</b><br><b>ASS208-018N</b><br><b>ASS208-019N</b>                                             | 40<br>1.5000<br>1.5625                     | 80<br>3.1496 | 38<br>1.4961 | 18<br>0.7087 | 1.5<br>0.059        | 0.6<br>0.024           | 9<br>0.354   | 29<br>1.142   | 8<br>0.315   | M8 × 1<br>$\frac{5}{16}$ -24UNF   | 53<br>2.087   |

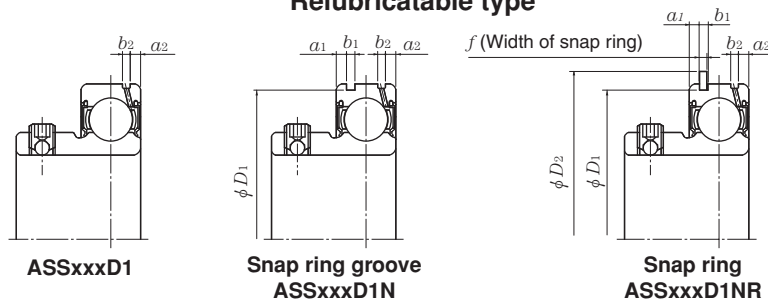
Remarks: 1) If relubricatable type is needed, please order with suffix "D1".

2) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

## Maintenance free type



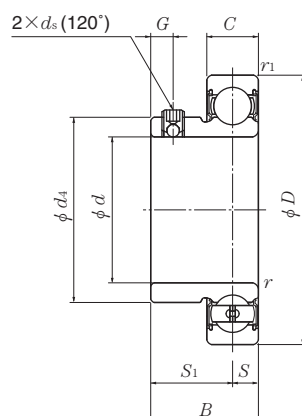
## Relubricatable type



| Nominal dimensions |       |       |       |       |       |             | Basic load ratings    |                           | Factor <sup>2)</sup> | Mass (approx.) |
|--------------------|-------|-------|-------|-------|-------|-------------|-----------------------|---------------------------|----------------------|----------------|
| $D_1$              | $a_1$ | $b_1$ | $f$   | $a_2$ | $b_2$ | $D_{2\max}$ | N<br>dynamic<br>$C_r$ | lbf<br>static<br>$C_{or}$ | $f_0$                | kg lb          |
| 38.1               | 1.98  | 1.5   | 1.07  | 1.9   | 2.0   | 44.6        | 9 600                 | 4 600                     | 12.8                 | 0.12           |
| 1.500              | 0.078 | 0.059 | 0.042 | 0.075 | 0.079 | 1.756       | 2 160                 | 1 030                     |                      | 0.24           |
| 38.1               | 1.98  | 1.5   | 1.07  | 1.9   | 2.0   | 44.6        | 9 600                 | 4 600                     | 12.8                 | 0.11           |
| 1.500              | 0.078 | 0.059 | 0.042 | 0.075 | 0.079 | 1.756       | 2 160                 | 1 030                     |                      | 0.23           |
|                    |       |       |       |       |       |             |                       |                           |                      | 0.22           |
| 38.1               | 1.98  | 1.5   | 1.07  | 1.9   | 2.0   | 44.6        | 9 600                 | 4 600                     | 12.8                 | 0.10           |
| 1.500              | 0.078 | 0.059 | 0.042 | 0.075 | 0.079 | 1.756       | 2 160                 | 1 030                     |                      | 0.20           |
| 44.6               | 2.38  | 1.5   | 1.07  | 2.1   | 2.0   | 52.7        | 12 800                | 6 650                     | 13.2                 | 0.17           |
| 1.756              | 0.094 | 0.059 | 0.042 | 0.083 | 0.079 | 2.075       | 2 890                 | 1 500                     |                      | 0.33           |
| 49.73              | 2.38  | 1.5   | 1.07  | 2.6   | 2.0   | 57.9        | 14 000                | 7 850                     | 13.9                 | 0.17           |
|                    |       |       |       |       |       |             |                       |                           |                      | 0.46           |
| 1.958              | 0.094 | 0.059 | 0.042 | 0.102 | 0.079 | 2.280       | 3 150                 | 1 770                     |                      | 0.44           |
|                    |       |       |       |       |       |             |                       |                           |                      | 0.42           |
|                    |       |       |       |       |       |             |                       |                           |                      | 0.39           |
| 59.61              | 3.18  | 2.05  | 1.65  | 2.1   | 2.5   | 67.7        | 19 500                | 11 300                    | 13.8                 | 0.31           |
|                    |       |       |       |       |       |             |                       |                           |                      | 0.67           |
| 2.347              | 0.125 | 0.081 | 0.065 | 0.083 | 0.098 | 2.665       | 4 400                 | 2 540                     |                      | 0.65           |
|                    |       |       |       |       |       |             |                       |                           |                      | 0.63           |
|                    |       |       |       |       |       |             |                       |                           |                      | 0.61           |
| 68.81              | 3.18  | 2.05  | 1.65  | 2.1   | 3.0   | 78.6        | 25 700                | 15 300                    | 13.8                 | 0.49           |
|                    |       |       |       |       |       |             |                       |                           |                      | 1.18           |
| 2.709              | 0.125 | 0.081 | 0.065 | 0.083 | 0.118 | 3.094       | 5 750                 | 3 450                     |                      | 1.05           |
|                    |       |       |       |       |       |             |                       |                           |                      | 0.93           |
|                    |       |       |       |       |       |             |                       |                           |                      | 0.81           |
| 76.81              | 3.18  | 2.05  | 1.65  | 2.3   | 3.0   | 86.6        | 29 100                | 17 800                    | 14.0                 | 0.50           |
| 3.024              | 0.125 | 0.081 | 0.065 | 0.091 | 0.118 | 3.409       | 6 550                 | 4 000                     |                      | 1.15           |
|                    |       |       |       |       |       |             |                       |                           |                      | 1.06           |

# Ball bearings

## Set screw type

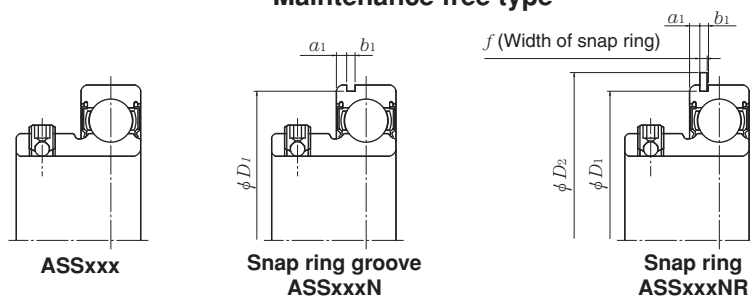


| Shaft<br>dia.<br><br>mm<br>inch | Bearing number <sup>1)</sup> | Nominal dimensions |          |          |          |                                    |                                     |                  |                      |          |            |                      |
|---------------------------------|------------------------------|--------------------|----------|----------|----------|------------------------------------|-------------------------------------|------------------|----------------------|----------|------------|----------------------|
|                                 |                              | <i>d</i>           | <i>D</i> | <i>B</i> | <i>C</i> | <i>r<sub>s</sub></i><br>mm<br>min. | <i>r<sub>1s</sub></i><br>mm<br>min. | inch<br><i>S</i> | <i>S<sub>1</sub></i> | <i>G</i> | <i>ds</i>  | <i>d<sub>4</sub></i> |
| <b>45</b>                       | <b>ASS209N</b>               | 45                 | 85       | 40       | 19       | 1.5                                | 1.5                                 | 9.5              | 30.5                 | 8        | M8 × 1     | 57.5                 |
| <b>1 5/8</b>                    | <b>ASS209-110N</b>           | 1.6250             |          |          |          |                                    |                                     |                  |                      |          |            |                      |
| <b>1 11/16</b>                  | <b>ASS209-111N</b>           | 1.6875             | 3.3465   | 1.5748   | 0.7480   | 0.059                              | 0.059                               | 0.374            | 1.201                | 0.315    | 5/16-24UNF | 2.264                |
| <b>1 3/4</b>                    | <b>ASS209-112N</b>           | 1.7500             |          |          |          |                                    |                                     |                  |                      |          |            |                      |
| <b>50</b>                       | <b>ASS210N</b>               | 50                 | 90       | 42       | 20       | 1.5                                | 1.5                                 | 10               | 32                   | 9        | M8 × 1     | 62.4                 |
| <b>1 13/16</b>                  | <b>ASS210-113N</b>           | 1.8125             |          |          |          |                                    |                                     |                  |                      |          |            |                      |
| <b>1 7/8</b>                    | <b>ASS210-114N</b>           | 1.8750             | 3.5433   | 1.6535   | 0.7874   | 0.059                              | 0.059                               | 0.394            | 1.260                | 0.354    | 5/16-24UNF | 2.457                |
| <b>1 15/16</b>                  | <b>ASS210-115N</b>           | 1.9375             |          |          |          |                                    |                                     |                  |                      |          |            |                      |
| <b>2</b>                        | <b>ASS210-200N</b>           | 2.0000             |          |          |          |                                    |                                     |                  |                      |          |            |                      |

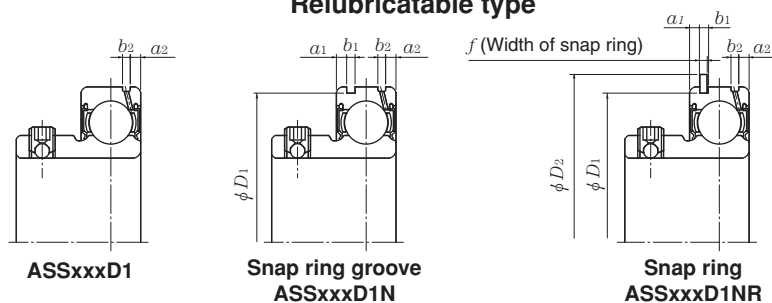
Remarks: 1) If relubricatable type is needed, please order with suffix "D1".

2) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

## Maintenance free type

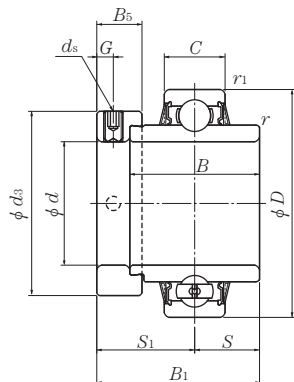


## Relubricatable type

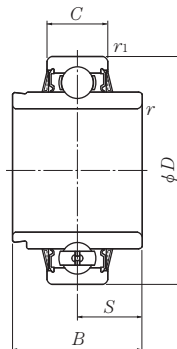


| Nominal dimensions |       |       |       |       |       |             | Basic load ratings |            | Factor <sup>2)</sup> | Mass (approx.) |
|--------------------|-------|-------|-------|-------|-------|-------------|--------------------|------------|----------------------|----------------|
| $D_1$              | $a_1$ | $b_1$ | $f$   | $a_2$ | $b_2$ | $D_{2\max}$ | $C_r$              | $C_{or}$   | $f_0$                |                |
|                    |       | mm    | inch  |       |       |             | N dynamic          | lbf static |                      | kg lb          |
| 81.81              | 3.18  | 2.05  | 1.65  | 2.6   | 3.0   | 91.6        | 32 500             | 20 400     | 14.1                 | 0.56           |
| 3.221              | 0.125 | 0.081 | 0.065 | 0.102 | 0.118 | 3.606       | 7 350              | 4 600      |                      | 1.41           |
|                    |       |       |       |       |       |             |                    |            |                      | 1.34           |
|                    |       |       |       |       |       |             |                    |            |                      | 1.26           |
| 86.79              | 3.18  | 2.85  | 2.41  | 3.5   | 3.0   | 96.5        | 35 000             | 23 200     | 14.4                 | 0.67           |
|                    |       |       |       |       |       |             |                    |            |                      | 1.70           |
| 3.417              | 0.125 | 0.112 | 0.095 | 0.138 | 0.118 | 3.799       | 7 900              | 5 200      |                      | 1.61           |
|                    |       |       |       |       |       |             |                    |            |                      | 1.52           |
|                    |       |       |       |       |       |             |                    |            |                      | 1.43           |

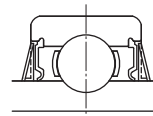
# Ball bearings Eccentric locking collar type



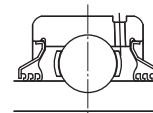
Bearing + Eccentric locking collar  
UELSxxxW3



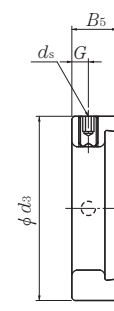
Bearing  
ULSxx



Standard : Seal + Slinger



Triple seal  
U(E)LSxxxD1LLJW3  
E : UEELS206LD1LLJW3

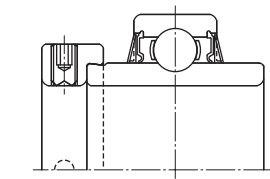


Eccentric locking collar  
ELxxW3

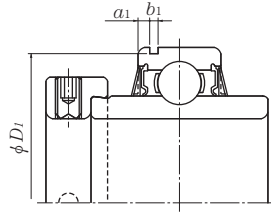
| Shaft<br>dia.                            | Bearing number <sup>1)</sup>                                                                      | Nominal dimensions                         |              |                       |                |              |                               |                                |                |                       |              |
|------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------|--------------|-----------------------|----------------|--------------|-------------------------------|--------------------------------|----------------|-----------------------|--------------|
|                                          |                                                                                                   | <i>d</i>                                   | <i>D</i>     | <i>B</i> <sub>1</sub> | <i>B</i>       | <i>C</i>     | <i>r</i> <sub>s</sub><br>min. | <i>r</i> <sub>1s</sub><br>min. | <i>S</i>       | <i>S</i> <sub>1</sub> | <i>G</i>     |
| <div>mm</div> <div>inch</div>            |                                                                                                   |                                            |              |                       |                |              |                               |                                |                |                       |              |
| 20<br>3/4                                | UELS204LD1NW3<br>UELS204-012LD1NW3                                                                | 20<br>0.7500                               | 47<br>1.8504 | 43.7<br>1.720         | 34.2<br>1.3465 | 17<br>0.6693 | 1<br>0.039                    | 0.6<br>0.024                   | 17.1<br>0.673  | 26.6<br>1.047         | 4.8<br>0.189 |
| 25<br>13/16<br>7/8<br>15/16<br>1         | UELS205LD1NW3<br>UELS205-013LD1NW3<br>UELS205-014LD1NW3<br>UELS205-015LD1NW3<br>UELS205-100LD1NW3 | 25<br>0.8125<br>0.8750<br>0.9375<br>1.0000 | 52<br>2.0472 | 44.4<br>1.748         | 34.9<br>1.3740 | 17<br>0.6693 | 1<br>0.039                    | 0.6<br>0.024                   | 17.45<br>0.687 | 26.9<br>1.059         | 4.8<br>0.189 |
| 30<br>1 1/16<br>1 1/8<br>1 3/16<br>1 1/4 | UELS206LD1NW3<br>UELS206-101LD1NW3<br>UELS206-102LD1NW3<br>UELS206-103LD1NW3<br>UELS206-104LD1NW3 | 30<br>1.0625<br>1.1250<br>1.1875<br>1.2500 | 62<br>2.4409 | 48.4<br>1.906         | 36.5<br>1.4370 | 19<br>0.7480 | 1<br>0.039                    | 1<br>0.039                     | 18.25<br>0.719 | 30.1<br>1.185         | 6<br>0.236   |
| 35<br>1 1/4<br>1 5/16<br>1 3/8<br>1 7/16 | UELS207LD1NW3<br>UELS207-104LD1NW3<br>UELS207-105LD1NW3<br>UELS207-106LD1NW3<br>UELS207-107LD1NW3 | 35<br>1.2500<br>1.3125<br>1.3750<br>1.4375 | 72<br>2.8346 | 51.1<br>2.012         | 37.6<br>1.4803 | 20<br>0.7874 | 1.5<br>0.059                  | 1.5<br>0.059                   | 18.8<br>0.740  | 32.3<br>1.272         | 6.8<br>0.268 |
| 40<br>1 1/2<br>1 9/16                    | UELS208LD1NW3<br>UELS208-108LD1NW3<br>UELS208-109LD1NW3                                           | 40<br>1.5000<br>1.5625                     | 80<br>3.1496 | 56.3<br>2.217         | 42.8<br>1.6850 | 21<br>0.8268 | 1.5<br>0.059                  | 1.5<br>0.059                   | 21.4<br>0.843  | 34.9<br>1.374         | 6.8<br>0.268 |
| 45<br>1 5/8<br>1 11/16<br>1 3/4          | UELS209LD1NW3<br>UELS209-110LD1NW3<br>UELS209-111LD1NW3<br>UELS209-112LD1NW3                      | 45<br>1.6250<br>1.6875<br>1.7500           | 85<br>3.3465 | 56.3<br>2.217         | 42.8<br>1.6850 | 22<br>0.8661 | 1.5<br>0.059                  | 1.5<br>0.059                   | 21.4<br>0.843  | 34.9<br>1.374         | 6.8<br>0.268 |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".  
2) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

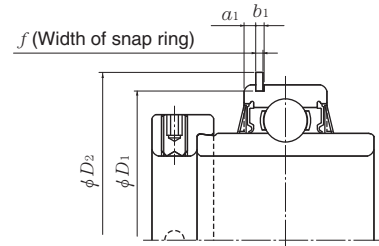
### Maintenance free type



Bearing : ULSxx  
With Eccentric locking collar  
: UELSxxW3

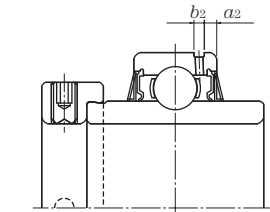


Snap ring groove  
Bearing : ULSxxN  
With Eccentric locking collar  
: UELSxxNW3

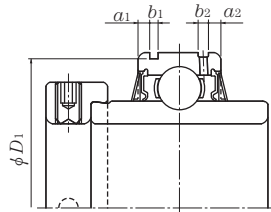


Snap ring  
Bearing : ULSxxNR  
With Eccentric locking collar  
: UELSxxNRW3

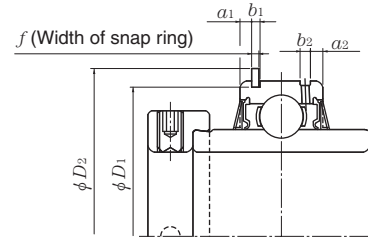
### Lubricatable type



Bearing : ULSxxD1  
With Eccentric locking collar  
: UELSxxD1W3



Snap ring groove  
Bearing : ULSxxD1N  
With Eccentric locking collar  
: UELSxxD1NW3

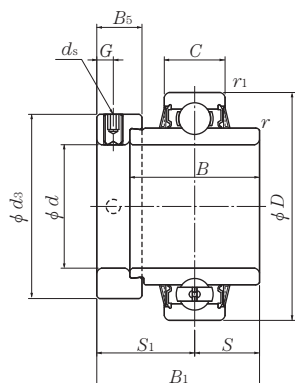


Snap ring  
Bearing : ULS2xxD1NR  
With Eccentric locking collar  
: UELS2xxD1NRW3

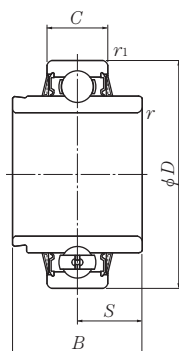
| Nominal dimensions |       |       |       |             |               |       |       |       |              | Basic load ratings    |                           | Factor <sup>2)</sup> | Mass (approx.) |
|--------------------|-------|-------|-------|-------------|---------------|-------|-------|-------|--------------|-----------------------|---------------------------|----------------------|----------------|
| $d_s$              | $d_3$ | $B_5$ | $D_1$ | mm<br>$a_1$ | inch<br>$b_1$ | $f$   | $a_2$ | $b_2$ | $D_{2 \max}$ | N<br>dynamic<br>$C_r$ | lbf<br>static<br>$C_{or}$ | $f_0$                | kg<br>lb       |
| M6 × 0.75          | 33    | 13.5  | 44.6  | 3.1         | 1.5           | 1.07  | 2.9   | 3.0   | 52.7         | 12 800                | 6 650                     | 13.2                 | 0.23           |
| 1/4-28UNF          | 1.299 | 0.531 | 1.756 | 0.122       | 0.059         | 0.042 | 0.114 | 0.118 | 2.075        | 2 890                 | 1 500                     |                      | 0.45           |
| M6 × 0.75          | 38    | 13.5  | 49.73 | 3.2         | 1.5           | 1.07  | 3.0   | 3.0   | 57.9         | 14 000                | 7 850                     | 13.9                 | 0.27           |
| 1/4-28UNF          | 1.496 | 0.531 | 1.958 | 0.126       | 0.059         | 0.042 | 0.118 | 0.118 | 2.280        | 3 150                 | 1 770                     |                      | 0.61           |
|                    |       |       |       |             |               |       |       |       |              |                       |                           |                      | 0.58           |
|                    |       |       |       |             |               |       |       |       |              |                       |                           |                      | 0.55           |
|                    |       |       |       |             |               |       |       |       |              |                       |                           |                      | 0.51           |
| M8 × 1             | 44.5  | 15.9  | 59.61 | 3.2         | 2.05          | 1.65  | 3.2   | 3.0   | 67.7         | 19 500                | 11 300                    | 13.8                 | 0.41           |
| 5/16-24UNF         | 1.752 | 0.626 | 2.347 | 0.126       | 0.081         | 0.065 | 0.126 | 0.118 | 2.665        | 4 400                 | 2 540                     |                      | 0.94           |
|                    |       |       |       |             |               |       |       |       |              |                       |                           |                      | 0.89           |
|                    |       |       |       |             |               |       |       |       |              |                       |                           |                      | 0.84           |
|                    |       |       |       |             |               |       |       |       |              |                       |                           |                      | 0.80           |
| M10 × 1.25         | 55.5  | 17.5  | 68.81 | 3.3         | 2.05          | 1.65  | 3.5   | 3.5   | 78.6         | 25 700                | 15 300                    | 13.8                 | 0.60           |
| 3/8-24UNF          | 2.185 | 0.689 | 2.709 | 0.130       | 0.081         | 0.065 | 0.138 | 0.138 | 3.094        | 5 750                 | 3 450                     |                      | 1.45           |
|                    |       |       |       |             |               |       |       |       |              |                       |                           |                      | 1.40           |
|                    |       |       |       |             |               |       |       |       |              |                       |                           |                      | 1.35           |
|                    |       |       |       |             |               |       |       |       |              |                       |                           |                      | 1.28           |
| M10 × 1.25         | 60    | 18.3  | 76.81 | 3.4         | 2.05          | 1.65  | 3.5   | 3.5   | 86.6         | 29 100                | 17 800                    | 14.0                 | 0.79           |
| 3/8-24UNF          | 2.362 | 0.720 | 3.024 | 0.134       | 0.081         | 0.065 | 0.138 | 0.138 | 3.409        | 6 550                 | 4 000                     |                      | 1.90           |
|                    |       |       |       |             |               |       |       |       |              |                       |                           |                      | 1.82           |
| M10 × 1.25         | 63.5  | 18.3  | 81.81 | 3.5         | 2.05          | 1.65  | 3.6   | 3.5   | 91.6         | 32 500                | 20 400                    | 14.0                 | 0.85           |
| 3/8-24UNF          | 2.500 | 0.720 | 3.221 | 0.138       | 0.081         | 0.065 | 0.142 | 0.138 | 3.606        | 7 350                 | 4 600                     |                      | 2.05           |
|                    |       |       |       |             |               |       |       |       |              |                       |                           |                      | 1.97           |
|                    |       |       |       |             |               |       |       |       |              |                       |                           |                      | 1.88           |



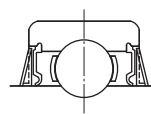
# Ball bearings Eccentric locking collar type



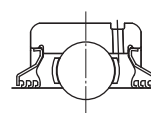
Bearing + Eccentric locking collar  
UELSxxxW3



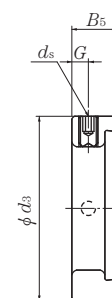
Bearing  
ULSxx



Standard : Seal + Slinger



Triple seal  
U(E)LSxxxD1LLJW3  
E : UELS206LD1LLJW3

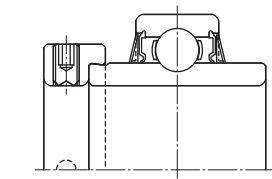


Eccentric locking collar  
ELxxW3

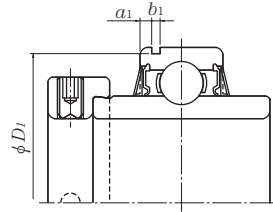
| Shaft<br>dia.<br><br>mm<br>inch | Bearing number <sup>1)</sup> | Nominal dimensions |          |                       |          |          |                               |                                |          |                       |          |
|---------------------------------|------------------------------|--------------------|----------|-----------------------|----------|----------|-------------------------------|--------------------------------|----------|-----------------------|----------|
|                                 |                              | <i>d</i>           | <i>D</i> | <i>B</i> <sub>1</sub> | <i>B</i> | <i>C</i> | <i>r</i> <sub>s</sub><br>min. | <i>r</i> <sub>1s</sub><br>min. | <i>S</i> | <i>S</i> <sub>1</sub> | <i>G</i> |
| <b>50</b>                       | <b>UELS210LD1NW3</b>         | 50                 | 90       | 62.7                  | 49.2     | 24       | 1.5                           | 1.5                            | 24.6     | 38.1                  | 6.8      |
| <b>1 13/16</b>                  | <b>UELS210-113LD1NW3</b>     | 1.8125             |          |                       |          |          |                               |                                |          |                       |          |
| <b>1 7/8</b>                    | <b>UELS210-114LD1NW3</b>     | 1.8750             | 3.5433   | 2.469                 | 1.9370   | 0.9449   | 0.059                         | 0.059                          | 0.969    | 1.500                 | 0.268    |
| <b>1 15/16</b>                  | <b>UELS210-115LD1NW3</b>     | 1.9375             |          |                       |          |          |                               |                                |          |                       |          |
| <b>2</b>                        | <b>UELS210-200LD1NW3</b>     | 2.0000             |          |                       |          |          |                               |                                |          |                       |          |
| <b>55</b>                       | <b>UELS211LD1NW3</b>         | 55                 | 100      | 71.4                  | 55.5     | 25       | 2                             | 2                              | 27.75    | 43.6                  | 8        |
| <b>2</b>                        | <b>UELS211-200LD1NW3</b>     | 2.0000             |          |                       |          |          |                               |                                |          |                       |          |
| <b>2 1/16</b>                   | <b>UELS211-201LD1NW3</b>     | 2.0625             | 3.9370   | 2.811                 | 2.1850   | 0.9843   | 0.079                         | 0.079                          | 1.093    | 1.717                 | 0.315    |
| <b>2 1/8</b>                    | <b>UELS211-202LD1NW3</b>     | 2.1250             |          |                       |          |          |                               |                                |          |                       |          |
| <b>2 3/16</b>                   | <b>UELS211-203LD1NW3</b>     | 2.1875             |          |                       |          |          |                               |                                |          |                       |          |
| <b>60</b>                       | <b>UELS212LD1NW3</b>         | 60                 | 110      | 77.8                  | 61.9     | 27       | 2                             | 2                              | 30.95    | 46.8                  | 8        |
| <b>2 1/4</b>                    | <b>UELS212-204LD1NW3</b>     | 2.2500             |          |                       |          |          |                               |                                |          |                       |          |
| <b>2 5/16</b>                   | <b>UELS212-205LD1NW3</b>     | 2.3125             | 4.3307   | 3.063                 | 2.4370   | 1.0630   | 0.079                         | 0.079                          | 1.219    | 1.843                 | 0.315    |
| <b>2 3/8</b>                    | <b>UELS212-206LD1NW3</b>     | 2.3750             |          |                       |          |          |                               |                                |          |                       |          |
| <b>2 7/16</b>                   | <b>UELS212-207LD1NW3</b>     | 2.4375             |          |                       |          |          |                               |                                |          |                       |          |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".  
2) For inch series bearings, the *f*<sub>0</sub> factor for calculating equivalent radial load is the same as the metric series.

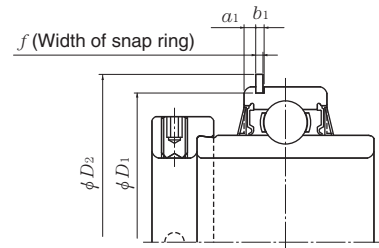
### Maintenance free type



Bearing : ULSxx  
With Eccentric locking collar  
: UELSxxW3

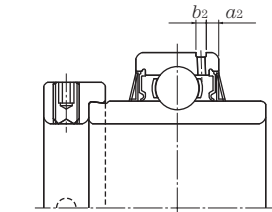


Snap ring groove  
Bearing : ULSxxN  
With Eccentric locking collar  
: UELSxxNW3

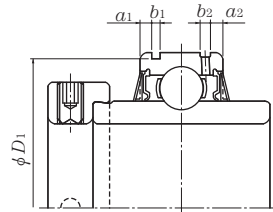


Snap ring  
Bearing : ULSxxNR  
With Eccentric locking collar  
: UELSxxNRW3

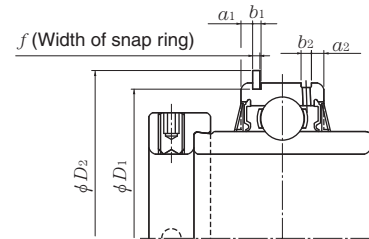
### Lubricatable type



Bearing : ULSxxD1  
With Eccentric locking collar  
: UELSxxD1W3



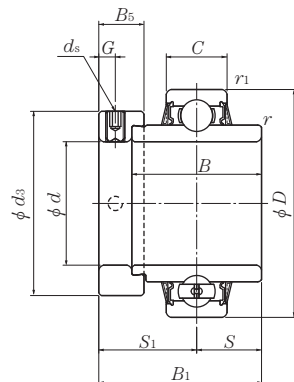
Snap ring groove  
Bearing : ULSxxD1N  
With Eccentric locking collar  
: UELSxxD1NW3



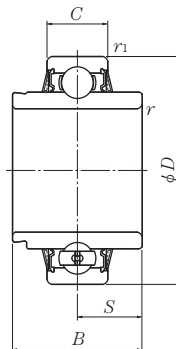
Snap ring  
Bearing : ULS2xxD1NR  
With Eccentric locking collar  
: UELS2xxD1NRW3

| Nominal dimensions   |       |       |        |             |               |       |       |       |             | Basic load ratings    |                           | Factor <sup>2)</sup> | Mass (approx.) |
|----------------------|-------|-------|--------|-------------|---------------|-------|-------|-------|-------------|-----------------------|---------------------------|----------------------|----------------|
| $d_s$                | $d_3$ | $B_5$ | $D_1$  | mm<br>$a_1$ | inch<br>$b_1$ | $f$   | $a_2$ | $b_2$ | $D_{2\max}$ | N<br>dynamic<br>$C_r$ | lbf<br>static<br>$C_{or}$ | $f_0$                | kg<br>lb       |
| M10 × 1.25           | 69.5  | 18.3  | 86.79  | 3.7         | 2.85          | 2.41  | 4.1   | 3.5   | 96.5        | 35 000                | 23 200                    | 0.98                 | 2.46           |
| $\frac{3}{8}$ -24UNF | 2.736 | 0.720 | 3.417  | 0.146       | 0.112         | 0.095 | 0.161 | 0.138 | 3.799       | 7 900                 | 5 200                     | 14.4                 | 2.36           |
|                      |       |       |        |             |               |       |       |       |             |                       |                           |                      | 2.25           |
|                      |       |       |        |             |               |       |       |       |             |                       |                           |                      | 2.09           |
| M10 × 1.25           | 76    | 20.7  | 96.80  | 4.4         | 2.85          | 2.41  | 4.4   | 3.5   | 106.5       | 43 500                | 29 200                    |                      | 1.32           |
| $\frac{3}{8}$ -24UNF | 2.992 | 0.815 | 3.811  | 0.173       | 0.112         | 0.095 | 0.173 | 0.138 | 4.193       | 9 750                 | 6 550                     | 14.3                 | 3.28           |
|                      |       |       |        |             |               |       |       |       |             |                       |                           |                      | 3.12           |
|                      |       |       |        |             |               |       |       |       |             |                       |                           |                      | 3.02           |
|                      |       |       |        |             |               |       |       |       |             |                       |                           |                      | 2.90           |
| M10 × 1.25           | 84    | 22.3  | 106.81 | 4.4         | 2.85          | 2.41  | 4.4   | 3.5   | 116.6       | 52 500                | 36 000                    |                      | 1.93           |
| $\frac{3}{8}$ -24UNF | 3.307 | 0.878 | 4.205  | 0.173       | 0.112         | 0.095 | 0.173 | 0.138 | 4.591       | 11 800                | 8 150                     | 14.3                 | 4.50           |
|                      |       |       |        |             |               |       |       |       |             |                       |                           |                      | 4.34           |
|                      |       |       |        |             |               |       |       |       |             |                       |                           |                      | 4.17           |
|                      |       |       |        |             |               |       |       |       |             |                       |                           |                      | 4.00           |

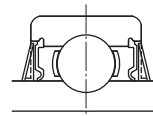
# Ball bearings Eccentric locking collar type



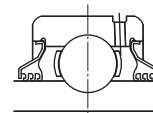
Bearing + Eccentric locking collar  
UELSxxxW3



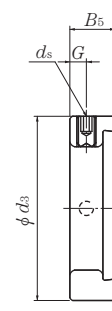
Bearing  
ULSxx



Standard : Seal + Slinger



Triple seal  
U(E)LSxxxD1LLJW3  
E : UEELS306D1LLJW3

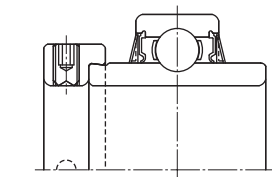


Eccentric locking collar  
ELxxW3

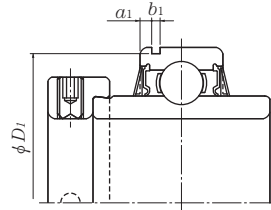
| Shaft<br>dia.                 | Bearing number <sup>1)</sup> | Nominal dimensions |            |                       |             |           |                                     |                                        |             |                       |            |                                     |
|-------------------------------|------------------------------|--------------------|------------|-----------------------|-------------|-----------|-------------------------------------|----------------------------------------|-------------|-----------------------|------------|-------------------------------------|
|                               |                              | <i>d</i>           | <i>D</i>   | <i>B</i> <sub>1</sub> | <i>B</i>    | <i>C</i>  | <i>r</i> <sub>s</sub><br>mm<br>min. | <i>r</i> <sub>1s</sub><br>inch<br>min. | <i>S</i>    | <i>S</i> <sub>1</sub> | <i>G</i>   | <i>ds</i>                           |
| <b>25</b>                     | <b>UELS305D1W3</b>           | <b>25</b>          | <b>62</b>  | <b>46.8</b>           | <b>34.9</b> | <b>20</b> | <b>1.5</b>                          | <b>0.6</b>                             | <b>16.7</b> | <b>30.1</b>           | <b>6</b>   | <b>M8 × 1</b>                       |
| <sup>13</sup> / <sub>16</sub> | <b>UELS305-013D1W3</b>       | 0.8125             |            |                       |             |           |                                     |                                        |             |                       |            |                                     |
| <sup>7</sup> / <sub>8</sub>   | <b>UELS305-014D1W3</b>       | 0.8750             | 2.4409     | 1.843                 | 1.3740      | 0.7874    | 0.059                               | 0.024                                  | 0.657       | 1.185                 | 0.236      | <sup>5</sup> / <sub>16</sub> -24UNF |
| <sup>15</sup> / <sub>16</sub> | <b>UELS305-015D1W3</b>       | 0.9375             |            |                       |             |           |                                     |                                        |             |                       |            |                                     |
| <b>1</b>                      | <b>UELS305-100D1W3</b>       | 1.0000             |            |                       |             |           |                                     |                                        |             |                       |            |                                     |
| <b>30</b>                     | <b>UELS306D1W3</b>           | <b>30</b>          | <b>72</b>  | <b>50</b>             | <b>36.5</b> | <b>23</b> | <b>1.5</b>                          | <b>1</b>                               | <b>17.5</b> | <b>32.5</b>           | <b>6.7</b> | <b>M8 × 1</b>                       |
| <sup>1</sup> / <sub>16</sub>  | <b>UELS306-101D1W3</b>       | 1.0625             |            |                       |             |           |                                     |                                        |             |                       |            |                                     |
| <sup>1</sup> / <sub>8</sub>   | <b>UELS306-102D1W3</b>       | 1.1250             | 2.8346     | 1.969                 | 1.4370      | 0.9055    | 0.059                               | 0.039                                  | 0.689       | 1.280                 | 0.264      | <sup>5</sup> / <sub>16</sub> -24UNF |
| <sup>1</sup> / <sub>4</sub>   | <b>UELS306-103D1W3</b>       | 1.1875             |            |                       |             |           |                                     |                                        |             |                       |            |                                     |
| <b>35</b>                     | <b>UELS307D1W3</b>           | <b>35</b>          | <b>80</b>  | <b>51.6</b>           | <b>38.1</b> | <b>25</b> | <b>2</b>                            | <b>1</b>                               | <b>18.3</b> | <b>33.3</b>           | <b>6.7</b> | <b>M8 × 1</b>                       |
| <sup>1</sup> / <sub>4</sub>   | <b>UELS307-104D1W3</b>       | 1.2500             |            |                       |             |           |                                     |                                        |             |                       |            |                                     |
| <sup>5</sup> / <sub>16</sub>  | <b>UELS307-105D1W3</b>       | 1.3125             | 3.1496     | 2.031                 | 1.5000      | 0.9843    | 0.079                               | 0.039                                  | 0.720       | 1.311                 | 0.264      | <sup>5</sup> / <sub>16</sub> -24UNF |
| <sup>3</sup> / <sub>8</sub>   | <b>UELS307-106D1W3</b>       | 1.3750             |            |                       |             |           |                                     |                                        |             |                       |            |                                     |
| <sup>1</sup> / <sub>2</sub>   | <b>UELS307-107D1W3</b>       | 1.4375             |            |                       |             |           |                                     |                                        |             |                       |            |                                     |
| <b>40</b>                     | <b>UELS308D1W3</b>           | <b>40</b>          | <b>90</b>  | <b>57.1</b>           | <b>41.3</b> | <b>27</b> | <b>2</b>                            | <b>1</b>                               | <b>19.8</b> | <b>37.3</b>           | <b>8</b>   | <b>M10 × 1.25</b>                   |
| <sup>1</sup> / <sub>2</sub>   | <b>UELS308-108D1W3</b>       | 1.5000             | 3.5433     | 2.248                 | 1.6260      | 1.0630    | 0.079                               | 0.039                                  | 0.780       | 1.469                 | 0.315      | <sup>3</sup> / <sub>8</sub> -24UNF  |
| <sup>9</sup> / <sub>16</sub>  | <b>UELS308-109D1W3</b>       | 1.5625             |            |                       |             |           |                                     |                                        |             |                       |            |                                     |
| <b>45</b>                     | <b>UELS309D1W3</b>           | <b>45</b>          | <b>100</b> | <b>58.7</b>           | <b>42.9</b> | <b>29</b> | <b>2</b>                            | <b>1</b>                               | <b>19.8</b> | <b>38.9</b>           | <b>8</b>   | <b>M10 × 1.25</b>                   |
| <sup>5</sup> / <sub>8</sub>   | <b>UELS309-110D1W3</b>       | 1.6250             |            |                       |             |           |                                     |                                        |             |                       |            |                                     |
| <sup>11</sup> / <sub>16</sub> | <b>UELS309-111D1W3</b>       | 1.6875             | 3.9370     | 2.311                 | 1.6890      | 1.1417    | 0.079                               | 0.039                                  | 0.780       | 1.531                 | 0.315      | <sup>3</sup> / <sub>8</sub> -24UNF  |
| <sup>3</sup> / <sub>4</sub>   | <b>UELS309-112D1W3</b>       | 1.7500             |            |                       |             |           |                                     |                                        |             |                       |            |                                     |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".  
2) For inch series bearings, the *f*<sub>0</sub> factor for calculating equivalent radial load is the same as the metric series.

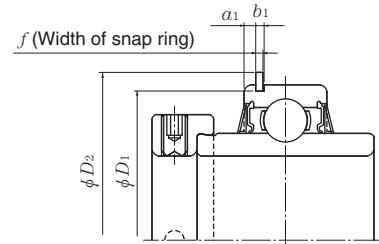
### Maintenance free type



Bearing : ULSxx  
With Eccentric locking collar  
: UELSxxW3

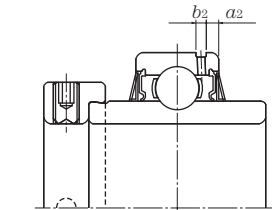


Snap ring groove  
Bearing : ULSxxN  
With Eccentric locking collar  
: UELSxxNW3

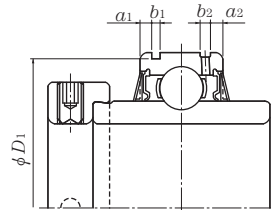


Snap ring  
Bearing : ULSxxNR  
With Eccentric locking collar  
: UELSxxNRW3

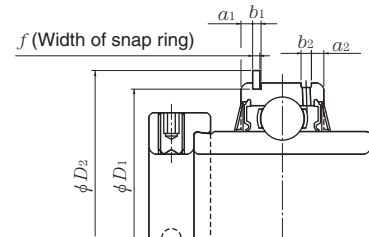
### Lubricatable type



Bearing : ULSxxD1  
With Eccentric locking collar  
: UELSxxD1W3



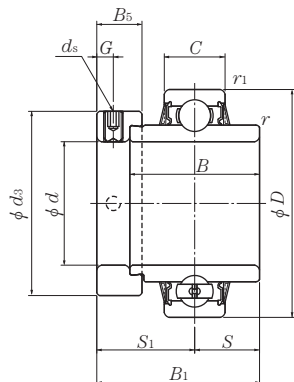
Snap ring groove  
Bearing : ULSxxD1N  
With Eccentric locking collar  
: UELSxxD1NW3



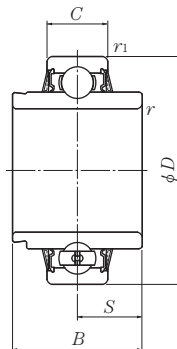
Snap ring  
Bearing : ULS2xxD1NR  
With Eccentric locking collar  
: UELS2xxD1NRW3

| Nominal dimensions |       |       |       |       |       |       |             |       | Basic load ratings    |                           | Factor <sup>2)</sup> | Mass (approx.)       |
|--------------------|-------|-------|-------|-------|-------|-------|-------------|-------|-----------------------|---------------------------|----------------------|----------------------|
| $d_3$              | $B_5$ | $f$   | $a_1$ | $b_1$ | $a_2$ | $b_2$ | $D_{2\max}$ | $D_1$ | N<br>dynamic<br>$C_r$ | lbf<br>static<br>$C_{or}$ | $f_0$                | kg<br>lb             |
| 42.8               | 15.9  | 1.65  | 3.5   | 2.05  | 2.6   | 3.5   | 67.7        | 59.61 | 21 200                | 10 900                    | 12.6                 | 0.45<br>1.13         |
| 1.685              | 0.626 | 0.065 | 0.138 | 0.081 | 0.102 | 0.138 | 2.665       | 2.347 | 4 750                 | 2 460                     |                      | 1.09<br>1.05<br>1.00 |
| 50                 | 17.5  | 1.65  | 3.7   | 2.05  | 3.4   | 3.5   | 78.6        | 68.81 | 26 700                | 15 000                    | 13.3                 | 0.71<br>1.62         |
| 1.969              | 0.689 | 0.065 | 0.146 | 0.081 | 0.134 | 0.138 | 3.094       | 2.709 | 6 000                 | 3 400                     |                      | 1.56<br>1.50         |
| 55                 | 17.5  | 1.65  | 3.7   | 2.05  | 3.6   | 3.5   | 86.6        | 76.81 | 33 500                | 19 100                    | 13.1                 | 0.83<br>1.99         |
| 2.165              | 0.689 | 0.065 | 0.146 | 0.081 | 0.142 | 0.138 | 3.409       | 3.024 | 7 500                 | 4 300                     |                      | 1.91<br>1.84<br>1.76 |
| 63.5               | 20.6  | 2.41  | 4.0   | 2.85  | 3.8   | 3.5   | 96.5        | 86.79 | 40 500                | 24 000                    | 13.2                 | 1.12<br>2.67         |
| 2.500              | 0.811 | 0.095 | 0.157 | 0.112 | 0.150 | 0.138 | 3.799       | 3.417 | 9 150                 | 5 400                     |                      | 2.58                 |
| 70                 | 20.6  | 2.41  | 4.5   | 2.85  | 4.2   | 3.5   | 106.5       | 96.80 | 53 000                | 32 000                    | 13.1                 | 1.50<br>3.26         |
| 2.756              | 0.811 | 0.095 | 0.177 | 0.112 | 0.165 | 0.138 | 4.193       | 3.811 | 11 900                | 7 200                     |                      | 3.37<br>3.26         |

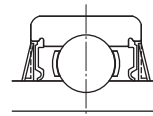
# Ball bearings Eccentric locking collar type



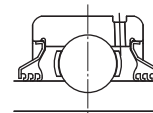
Bearing + Eccentric locking collar  
UELSxxxW3



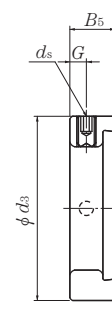
Bearing  
ULSxx



Standard : Seal + Slinger



Triple seal  
U(E)LSxxxD1LLJW3  
E : UELS306D1LLJW3

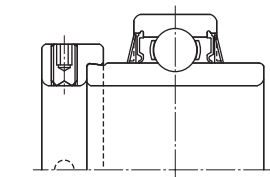


Eccentric locking collar  
ELxxW3

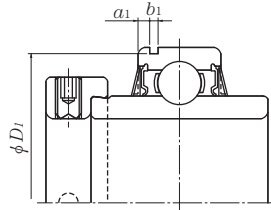
| Shaft<br>dia.<br><br>mm<br>inch     | Bearing number <sup>1)</sup> | Nominal dimensions |            |                       |             |                        |                               |                                |              |                       |             |                   |
|-------------------------------------|------------------------------|--------------------|------------|-----------------------|-------------|------------------------|-------------------------------|--------------------------------|--------------|-----------------------|-------------|-------------------|
|                                     |                              | <i>d</i>           | <i>D</i>   | <i>B</i> <sub>1</sub> | <i>B</i>    | <i>C</i><br>mm<br>inch | <i>r</i> <sub>s</sub><br>min. | <i>r</i> <sub>1s</sub><br>min. | <i>S</i>     | <i>S</i> <sub>1</sub> | <i>G</i>    | <i>ds</i>         |
| <b>50</b>                           | <b>UELS310D1W3</b>           | <b>50</b>          | <b>110</b> | <b>66.6</b>           | <b>49.2</b> | <b>32</b>              | <b>2.5</b>                    | <b>1.5</b>                     | <b>24.6</b>  | <b>42</b>             | <b>8.7</b>  | <b>M10 × 1.25</b> |
| <b>1<sup>13</sup>/<sub>16</sub></b> | <b>UELS310-113D1W3</b>       | 1.8125             |            |                       |             |                        |                               |                                |              |                       |             |                   |
| <b>1<sup>7</sup>/<sub>8</sub></b>   | <b>UELS310-114D1W3</b>       | 1.8750             | 4.3307     | 2.622                 | 1.9370      | 1.2598                 | 0.098                         | 0.059                          | 0.969        | 1.654                 | 0.343       | <b>3/8-24UNF</b>  |
| <b>1<sup>15</sup>/<sub>16</sub></b> | <b>UELS310-115D1W3</b>       | 1.9375             |            |                       |             |                        |                               |                                |              |                       |             |                   |
| <b>55</b>                           | <b>UELS311D1W3</b>           | <b>55</b>          | <b>120</b> | <b>73</b>             | <b>55.6</b> | <b>34</b>              | <b>2.5</b>                    | <b>1.5</b>                     | <b>27.8</b>  | <b>45.2</b>           | <b>8.7</b>  | <b>M10 × 1.25</b> |
| <b>2</b>                            | <b>UELS311-200D1W3</b>       | 2.0000             |            |                       |             |                        |                               |                                |              |                       |             |                   |
| <b>2<sup>1</sup>/<sub>16</sub></b>  | <b>UELS311-201D1W3</b>       | 2.0625             | 4.7244     | 2.874                 | 2.1890      | 1.3386                 | 0.098                         | 0.059                          | 1.094        | 1.780                 | 0.343       | <b>3/8-24UNF</b>  |
| <b>2<sup>1</sup>/<sub>8</sub></b>   | <b>UELS311-202D1W3</b>       | 2.1250             |            |                       |             |                        |                               |                                |              |                       |             |                   |
| <b>2<sup>3</sup>/<sub>16</sub></b>  | <b>UELS311-203D1W3</b>       | 2.1875             |            |                       |             |                        |                               |                                |              |                       |             |                   |
| <b>60</b>                           | <b>UELS312D1W3</b>           | <b>60</b>          | <b>130</b> | <b>79.4</b>           | <b>61.9</b> | <b>36</b>              | <b>2.5</b>                    | <b>1.5</b>                     | <b>30.95</b> | <b>48.45</b>          | <b>8.7</b>  | <b>M10 × 1.25</b> |
| <b>2<sup>1</sup>/<sub>4</sub></b>   | <b>UELS312-204D1W3</b>       | 2.2500             |            |                       |             |                        |                               |                                |              |                       |             |                   |
| <b>2<sup>5</sup>/<sub>16</sub></b>  | <b>UELS312-205D1W3</b>       | 2.3125             | 5.1181     | 3.126                 | 2.4370      | 1.4173                 | 0.098                         | 0.059                          | 1.219        | 1.907                 | 0.343       | <b>3/8-24UNF</b>  |
| <b>2<sup>3</sup>/<sub>8</sub></b>   | <b>UELS312-206D1W3</b>       | 2.3750             |            |                       |             |                        |                               |                                |              |                       |             |                   |
| <b>2<sup>7</sup>/<sub>16</sub></b>  | <b>UELS312-207D1W3</b>       | 2.4375             |            |                       |             |                        |                               |                                |              |                       |             |                   |
| <b>65</b>                           | <b>UELS313D1W3</b>           | <b>65</b>          | <b>140</b> | <b>85.7</b>           | <b>65.1</b> | <b>39</b>              | <b>2.5</b>                    | <b>2</b>                       | <b>32.55</b> | <b>53.15</b>          | <b>10.3</b> | <b>M12 × 1.5</b>  |
| <b>2<sup>1</sup>/<sub>2</sub></b>   | <b>UELS313-208D1W3</b>       | 2.5000             | 5.5118     | 3.374                 | 2.5630      | 1.5354                 | 0.098                         | 0.079                          | 1.281        | 2.093                 | 0.406       | <b>1/2-20UNF</b>  |
| <b>2<sup>9</sup>/<sub>16</sub></b>  | <b>UELS313-209D1W3</b>       | 2.5625             |            |                       |             |                        |                               |                                |              |                       |             |                   |
| <b>70</b>                           | <b>UELS314D1W3</b>           | <b>70</b>          | <b>150</b> | <b>92.1</b>           | <b>68.3</b> | <b>41</b>              | <b>2.5</b>                    | <b>2</b>                       | <b>34.15</b> | <b>57.95</b>          | <b>10.3</b> | <b>M12 × 1.5</b>  |
| <b>2<sup>5</sup>/<sub>8</sub></b>   | <b>UELS314-210D1W3</b>       | 2.6250             |            |                       |             |                        |                               |                                |              |                       |             |                   |
| <b>2<sup>11</sup>/<sub>16</sub></b> | <b>UELS314-211D1W3</b>       | 2.6875             | 5.9055     | 3.626                 | 2.6890      | 1.6142                 | 0.098                         | 0.079                          | 1.344        | 2.281                 | 0.406       | <b>1/2-20UNF</b>  |
| <b>2<sup>3</sup>/<sub>4</sub></b>   | <b>UELS314-212D1W3</b>       | 2.7500             |            |                       |             |                        |                               |                                |              |                       |             |                   |

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".  
2) For inch series bearings, the *f*<sub>0</sub> factor for calculating equivalent radial load is the same as the metric series.

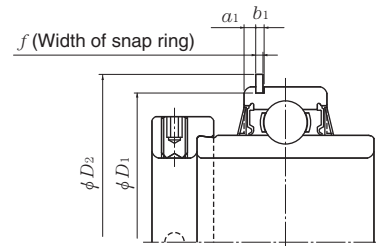
### Maintenance free type



Bearing : ULSxx  
With Eccentric locking collar  
: UELSxxW3

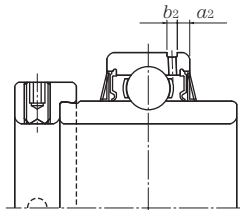


Snap ring groove  
Bearing : ULSxxN  
With Eccentric locking collar  
: UELSxxNW3

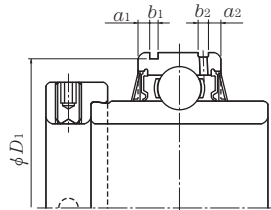


Snap ring  
Bearing : ULSxxNR  
With Eccentric locking collar  
: UELSxxNRW3

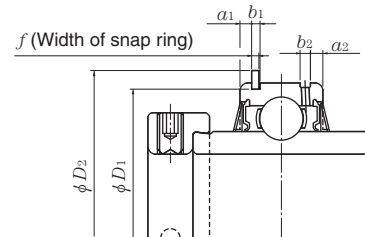
### Lubricatable type



Bearing : ULSxxD1  
With Eccentric locking collar  
: UELSxxD1W3



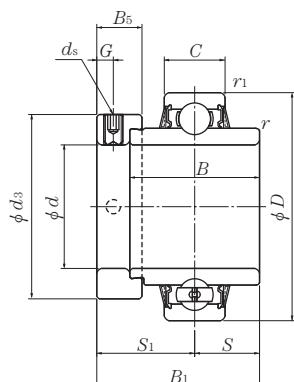
Snap ring groove  
Bearing : ULSxxD1N  
With Eccentric locking collar  
: UELSxxD1NW3



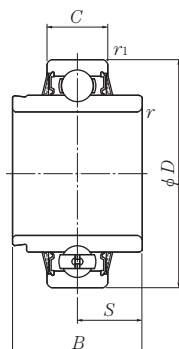
Snap ring  
Bearing : ULS2xxD1NR  
With Eccentric locking collar  
: UELS2xxD1NRW3

| Nominal dimensions |       |       |       |       |       |       |             |        | Basic load ratings    |                           | Factor <sup>2)</sup> | Mass (approx.) |
|--------------------|-------|-------|-------|-------|-------|-------|-------------|--------|-----------------------|---------------------------|----------------------|----------------|
| $d_3$              | $B_5$ | $f$   | $a_1$ | $b_1$ | $a_2$ | $b_2$ | $D_{2\max}$ | $D_1$  | N<br>dynamic<br>$C_r$ | lbf<br>static<br>$C_{or}$ | $f_0$                | kg<br>lb       |
| 76.2               | 22.2  | 2.41  | 4.5   | 2.85  | 4.3   | 4.0   | 116.6       | 106.81 | 62 000                | 38 500                    | 13.2                 | 1.93           |
| 3.000              | 0.874 | 0.095 | 0.177 | 0.112 | 0.169 | 0.157 | 4.591       | 4.205  | 13 900                | 8 600                     |                      | 4.55           |
|                    |       |       |       |       |       |       |             |        |                       |                           |                      | 4.44           |
|                    |       |       |       |       |       |       |             |        |                       |                           |                      | 4.30           |
| 83                 | 22.2  | 2.77  | 4.5   | 3.25  | 4.5   | 4.0   | 129.7       | 115.21 | 71 500                | 45 000                    | 13.2                 | 2.42           |
| 3.268              | 0.874 | 0.109 | 0.177 | 0.128 | 0.177 | 0.157 | 5.106       | 4.536  | 16 100                | 10 100                    |                      | 5.76           |
|                    |       |       |       |       |       |       |             |        |                       |                           |                      | 5.57           |
|                    |       |       |       |       |       |       |             |        |                       |                           |                      | 5.43           |
|                    |       |       |       |       |       |       |             |        |                       |                           |                      | 5.26           |
| 89                 | 23.9  | 2.77  | 4.5   | 3.25  | 4.7   | 4.0   | 139.7       | 125.22 | 82 000                | 52 000                    | 13.2                 | 3.04           |
| 3.504              | 0.941 | 0.109 | 0.177 | 0.128 | 0.185 | 0.157 | 5.500       | 4.930  | 18 400                | 11 700                    |                      | 7.01           |
|                    |       |       |       |       |       |       |             |        |                       |                           |                      | 6.86           |
|                    |       |       |       |       |       |       |             |        |                       |                           |                      | 6.69           |
|                    |       |       |       |       |       |       |             |        |                       |                           |                      | 6.40           |
| 97                 | 27    | 2.77  | 5.0   | 3.25  | 5.5   | 4.0   | 149.7       | 135.23 | 92 500                | 60 000                    | 13.2                 | 3.79           |
| 3.819              | 1.063 | 0.109 | 0.197 | 0.128 | 0.217 | 0.157 | 5.894       | 5.324  | 20 800                | 13 400                    |                      | 8.76           |
|                    |       |       |       |       |       |       |             |        |                       |                           |                      | 8.55           |
| 102                | 30.2  | 2.77  | 5.0   | 3.25  | 5.5   | 4.0   | 159.7       | 145.24 | 104 000               | 68 000                    | 13.2                 | 4.54           |
| 4.016              | 1.189 | 0.109 | 0.197 | 0.128 | 0.217 | 0.157 | 6.287       | 5.718  | 23 400                | 15 300                    |                      | 10.7           |
|                    |       |       |       |       |       |       |             |        |                       |                           |                      | 10.5           |
|                    |       |       |       |       |       |       |             |        |                       |                           |                      | 10.2           |

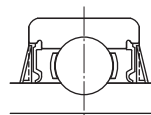
# Ball bearings Eccentric locking collar type



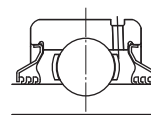
Bearing + Eccentric locking collar  
UELSxxxW3



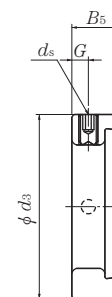
Bearing  
ULSxx



Standard : Seal + Slinger



Triple seal  
U(E)LSxxxD1LLJW3  
E : UEELS306D1LLJW3



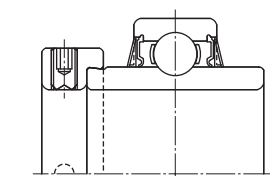
Eccentric locking collar  
ELxxW3

| Shaft<br>dia.                   | Bearing number <sup>1)</sup> | Nominal dimensions |          |                       |          |          |                                     |                                        |          |                       |          |           |
|---------------------------------|------------------------------|--------------------|----------|-----------------------|----------|----------|-------------------------------------|----------------------------------------|----------|-----------------------|----------|-----------|
|                                 |                              | <i>d</i>           | <i>D</i> | <i>B</i> <sub>1</sub> | <i>B</i> | <i>C</i> | <i>r</i> <sub>s</sub><br>mm<br>min. | <i>r</i> <sub>1s</sub><br>inch<br>min. | <i>S</i> | <i>S</i> <sub>1</sub> | <i>G</i> | <i>ds</i> |
| 75                              | UELS315D1W3                  | 75                 | 160      | 100                   | 74.6     | 43       | 2.5                                 | 2                                      | 37.3     | 62.7                  | 12.7     | M16 × 1.5 |
| 2 <sup>13</sup> / <sub>16</sub> | UELS315-213D1W3              | 2.8125             |          |                       |          |          |                                     |                                        |          |                       |          |           |
| 2 <sup>7</sup> / <sub>8</sub>   | UELS315-214D1W3              | 2.8750             | 6.2992   | 3.937                 | 2.9370   | 1.6929   | 0.098                               | 0.079                                  | 1.469    | 2.469                 | 0.500    | 5/8-18UNF |
| 2 <sup>15</sup> / <sub>16</sub> | UELS315-215D1W3              | 2.9375             |          |                       |          |          |                                     |                                        |          |                       |          |           |
| 3                               | UELS315-300D1W3              | 3.0000             |          |                       |          |          |                                     |                                        |          |                       |          |           |
| 80                              | UELS316D1W3                  | 80                 | 170      | 106.4                 | 81       | 45       | 2.5                                 | 2                                      | 40.5     | 65.9                  | 12.7     | M16 × 1.5 |
| 3 <sup>1</sup> / <sub>16</sub>  | UELS316-301D1W3              | 3.0625             |          |                       |          |          |                                     |                                        |          |                       |          |           |
| 3 <sup>1</sup> / <sub>8</sub>   | UELS316-302D1W3              | 3.1250             | 6.6929   | 4.189                 | 3.1890   | 1.7717   | 0.098                               | 0.079                                  | 1.594    | 2.594                 | 0.500    | 5/8-18UNF |
| 3 <sup>3</sup> / <sub>16</sub>  | UELS316-303D1W3              | 3.1875             |          |                       |          |          |                                     |                                        |          |                       |          |           |
| 85                              | UELS317D1W3                  | 85                 | 180      | 109.5                 | 84.1     | 47       | 3                                   | 2.5                                    | 42.05    | 67.45                 | 12.7     | M16 × 1.5 |
| 3 <sup>1</sup> / <sub>4</sub>   | UELS317-304D1W3              | 3.2500             |          |                       |          |          |                                     |                                        |          |                       |          |           |
| 3 <sup>5</sup> / <sub>16</sub>  | UELS317-305D1W3              | 3.3125             | 7.0866   | 4.311                 | 3.3110   | 1.8504   | 0.118                               | 0.098                                  | 1.656    | 2.656                 | 0.500    | 5/8-18UNF |
| 3 <sup>7</sup> / <sub>16</sub>  | UELS317-307D1W3              | 3.4375             |          |                       |          |          |                                     |                                        |          |                       |          |           |
| 90                              | UELS318D1W3                  | 90                 | 190      | 115.9                 | 87.3     | 49       | 3                                   | 2.5                                    | 43.65    | 72.25                 | 14.3     | M20 × 1.5 |
| 3 <sup>7</sup> / <sub>16</sub>  | UELS318-307D1W3              | 3.4375             | 7.4803   | 4.563                 | 3.4370   | 1.9291   | 0.118                               | 0.098                                  | 1.719    | 2.844                 | 0.563    | 3/4-16UNF |
| 3 <sup>1</sup> / <sub>2</sub>   | UELS318-308D1W3              | 3.5000             |          |                       |          |          |                                     |                                        |          |                       |          |           |

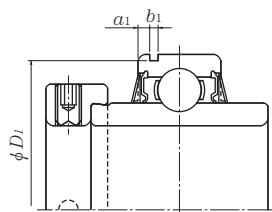
Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

2) For inch series bearings, the *f*<sub>0</sub> factor for calculating equivalent radial load is the same as the metric series.

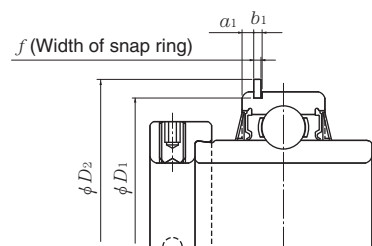
### Maintenance free type



Bearing : ULSxx  
With Eccentric locking collar  
: UELSxxW3

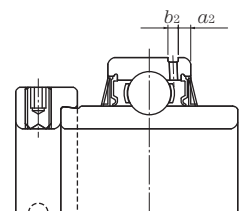


Snap ring groove  
Bearing : ULSxxN  
With Eccentric locking collar  
: UELSxxNW3

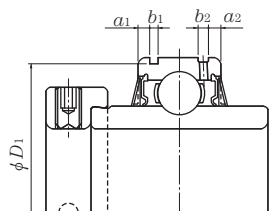


Snap ring  
Bearing : ULSxxNR  
With Eccentric locking collar  
: UELSxxNRW3

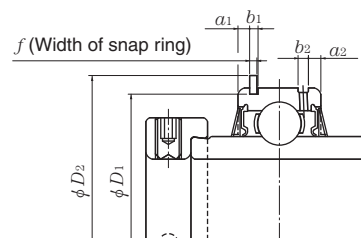
### Lubricatable type



Bearing : ULSxxD1  
With Eccentric locking collar  
: UELSxxD1W3



Snap ring groove  
Bearing : ULSxxD1N  
With Eccentric locking collar  
: UELSxxD1NW3

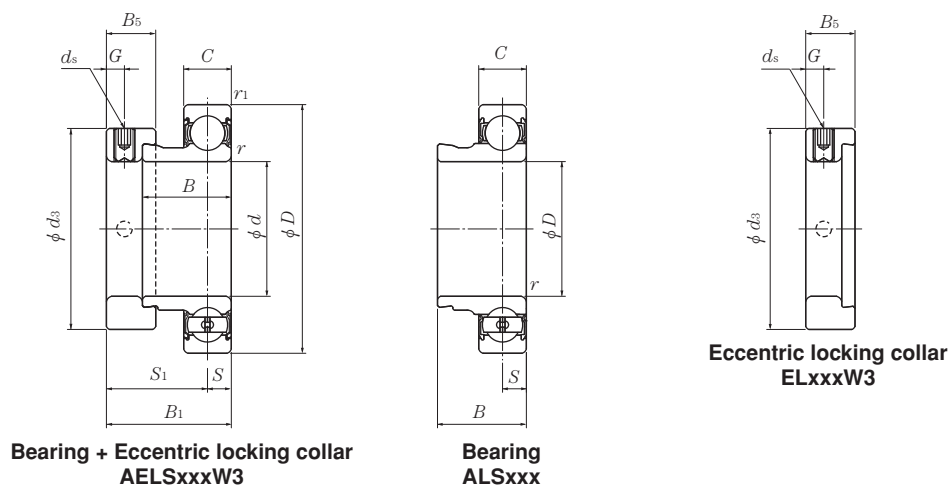


Snap ring  
Bearing : ULS2xxD1NR  
With Eccentric locking collar  
: UELS2xxD1NRW3

| Nominal dimensions |       |       |       |       |       |       |              |        | Basic load ratings    |                           | Factor <sup>2)</sup> | Mass (approx.) |
|--------------------|-------|-------|-------|-------|-------|-------|--------------|--------|-----------------------|---------------------------|----------------------|----------------|
| $d_3$              | $B_5$ | $f$   | $a_1$ | $b_1$ | $a_2$ | $b_2$ | $D_{2 \max}$ | $D_1$  | N<br>dynamic<br>$C_r$ | lbf<br>static<br>$C_{or}$ | $f_0$                | kg<br>lb       |
| 113                | 31.8  | 2.77  | 5.0   | 3.25  | 5.7   | 4.0   | 169.7        | 155.22 | 113 000               | 77 000                    | 13.2                 | 5.50           |
| 4.449              | 1.252 | 0.109 | 0.197 | 0.128 | 0.224 | 0.157 | 6.681        | 6.111  | 25 500                | 17 400                    |                      | 13.5           |
|                    |       |       |       |       |       |       |              |        |                       |                           |                      | 13.2           |
|                    |       |       |       |       |       |       |              |        |                       |                           |                      | 13.0           |
|                    |       |       |       |       |       |       |              |        |                       |                           |                      | 12.9           |
| 119                | 31.8  | 3.05  | 5.5   | 3.65  | 5.8   | 4.0   | 182.9        | 163.65 | 123 000               | 86 500                    | 13.3                 | 6.89           |
| 4.685              | 1.252 | 0.120 | 0.217 | 0.144 | 0.228 | 0.157 | 7.201        | 6.443  | 27 600                | 19 500                    |                      | 15.3           |
|                    |       |       |       |       |       |       |              |        |                       |                           |                      | 15.0           |
|                    |       |       |       |       |       |       |              |        |                       |                           |                      | 15.3           |
| 127                | 31.8  | 3.05  | 6.0   | 3.65  | 6.2   | 4.0   | 192.9        | 173.66 | 133 000               | 97 000                    | 13.3                 | 8.21           |
| 5.000              | 1.252 | 0.120 | 0.236 | 0.144 | 0.244 | 0.157 | 7.594        | 6.837  | 29 800                | 21 800                    |                      | 18.2           |
|                    |       |       |       |       |       |       |              |        |                       |                           |                      | 17.9           |
|                    |       |       |       |       |       |       |              |        |                       |                           |                      | 17.2           |
| 133                | 36.5  | 3.05  | 6.0   | 3.65  | 6.2   | 4.5   | 202.9        | 183.64 | 143 000               | 107 000                   | 13.3                 | 9.34           |
| 5.236              | 1.437 | 0.120 | 0.236 | 0.144 | 0.244 | 0.177 | 7.988        | 7.230  | 32 000                | 24 100                    |                      | 21.2           |
|                    |       |       |       |       |       |       |              |        |                       |                           |                      | 20.7           |



**Ball bearings**  
**Eccentric locking collar type**

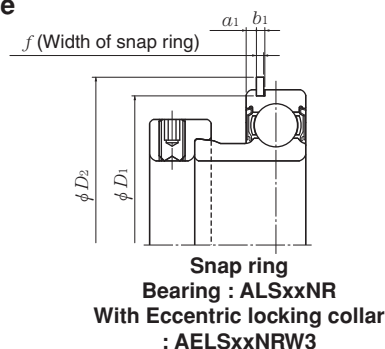
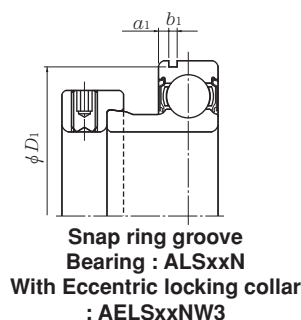
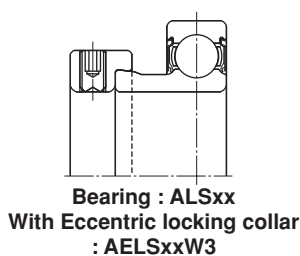


| Shaft<br>dia. | Bearing number <sup>1)</sup> | Nominal dimensions |        |                |        |        |                              |                                 |       |                |       |            |
|---------------|------------------------------|--------------------|--------|----------------|--------|--------|------------------------------|---------------------------------|-------|----------------|-------|------------|
|               |                              | d                  | D      | B <sub>1</sub> | B      | C      | mm<br>r <sub>s</sub><br>min. | inch<br>r <sub>1s</sub><br>min. | S     | S <sub>1</sub> | G     | ds         |
| <b>12</b>     | <b>AE LS201NW3</b>           | 12                 | 40     | 28.6           | 19     | 12     | 0.6                          | 0.6                             | 6.5   | 22.1           | 4.8   | M6 × 0.75  |
| <b>1/2</b>    | <b>AE LS201-008NW3</b>       | 0.5000             | 1.5748 | 1.126          | 0.7480 | 0.4724 | 0.024                        | 0.024                           | 0.256 | 0.870          | 0.189 | 1/4-28UNF  |
| <b>15</b>     | <b>AE LS202NW3</b>           | 15                 | 40     | 28.6           | 19     | 12     | 0.6                          | 0.6                             | 6.5   | 22.1           | 4.8   | M6 × 0.75  |
| <b>9/16</b>   | <b>AE LS202-009NW3</b>       | 0.5625             | 1.5748 | 1.126          | 0.7480 | 0.4724 | 0.024                        | 0.024                           | 0.256 | 0.870          | 0.189 | 1/4-28UNF  |
| <b>5/8</b>    | <b>AE LS202-010NW3</b>       | 0.6250             |        |                |        |        |                              |                                 |       |                |       |            |
| <b>17</b>     | <b>AE LS203NW3</b>           | 17                 | 40     | 28.6           | 19     | 12     | 0.6                          | 0.6                             | 6.5   | 22.1           | 4.8   | M6 × 0.75  |
| <b>1 1/16</b> | <b>AE LS203-011NW3</b>       | 0.6875             | 1.5748 | 1.126          | 0.7480 | 0.4724 | 0.024                        | 0.024                           | 0.256 | 0.870          | 0.189 | 1/4-28UNF  |
| <b>20</b>     | <b>AE LS204NW3</b>           | 20                 | 47     | 31             | 21.5   | 14     | 1                            | 0.6                             | 7.5   | 23.5           | 4.8   | M6 × 0.75  |
| <b>3/4</b>    | <b>AE LS204-012NW3</b>       | 0.7500             | 1.8504 | 1.220          | 0.8465 | 0.5512 | 0.039                        | 0.024                           | 0.295 | 0.925          | 0.189 | 1/4-28UNF  |
| <b>25</b>     | <b>AE LS205NW3</b>           | 25                 | 52     | 31             | 21.5   | 15     | 1                            | 0.6                             | 7.5   | 23.5           | 4.8   | M6 × 0.75  |
| <b>13/16</b>  | <b>AE LS205-013NW3</b>       | 0.8125             |        |                |        |        |                              |                                 |       |                |       |            |
| <b>7/8</b>    | <b>AE LS205-014NW3</b>       | 0.8750             | 2.0472 | 1.220          | 0.8465 | 0.5906 | 0.039                        | 0.024                           | 0.295 | 0.925          | 0.189 | 1/4-28UNF  |
| <b>15/16</b>  | <b>AE LS205-015NW3</b>       | 0.9375             |        |                |        |        |                              |                                 |       |                |       |            |
| <b>1</b>      | <b>AE LS205-100NW3</b>       | 1.0000             |        |                |        |        |                              |                                 |       |                |       |            |
| <b>30</b>     | <b>AE LS206NW3</b>           | 30                 | 62     | 35.7           | 23.8   | 16     | 1                            | 0.6                             | 9     | 26.7           | 6     | M8 × 1     |
| <b>1 1/16</b> | <b>AE LS206-101NW3</b>       | 1.0625             |        |                |        |        |                              |                                 |       |                |       |            |
| <b>1 1/8</b>  | <b>AE LS206-102NW3</b>       | 1.1250             | 2.4409 | 1.406          | 0.9370 | 0.6299 | 0.039                        | 0.024                           | 0.354 | 1.051          | 0.236 | 5/16-24UNF |
| <b>1 3/16</b> | <b>AE LS206-103NW3</b>       | 1.1875             |        |                |        |        |                              |                                 |       |                |       |            |
| <b>1 1/4</b>  | <b>AE LS206-104NW3</b>       | 1.2500             |        |                |        |        |                              |                                 |       |                |       |            |
| <b>35</b>     | <b>AE LS207NW3</b>           | 35                 | 72     | 38.9           | 25.4   | 17     | 1.5                          | 0.6                             | 9.5   | 29.4           | 6.8   | M10 × 1.25 |
| <b>1 1/4</b>  | <b>AE LS207-104NW3</b>       | 1.2500             |        |                |        |        |                              |                                 |       |                |       |            |
| <b>1 5/16</b> | <b>AE LS207-105NW3</b>       | 1.3125             | 2.8346 | 1.531          | 1.0000 | 0.6693 | 0.059                        | 0.024                           | 0.374 | 1.157          | 0.268 | 3/8-24UNF  |
| <b>1 1/2</b>  | <b>AE LS207-106NW3</b>       | 1.3750             |        |                |        |        |                              |                                 |       |                |       |            |
| <b>1 7/16</b> | <b>AE LS207-107NW3</b>       | 1.4375             |        |                |        |        |                              |                                 |       |                |       |            |

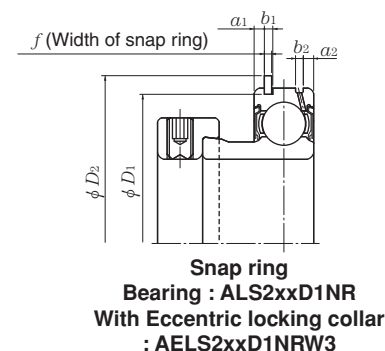
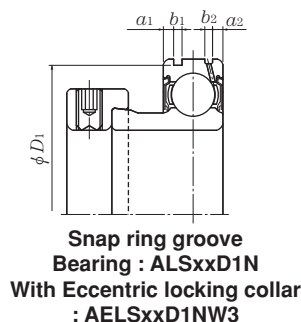
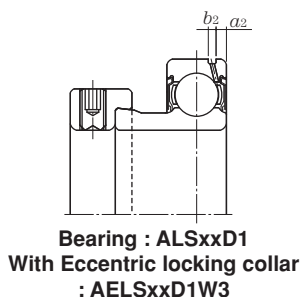
Remarks: 1) If relubricatable type is needed, please order with suffix "D1".

2) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

### Maintenance free type

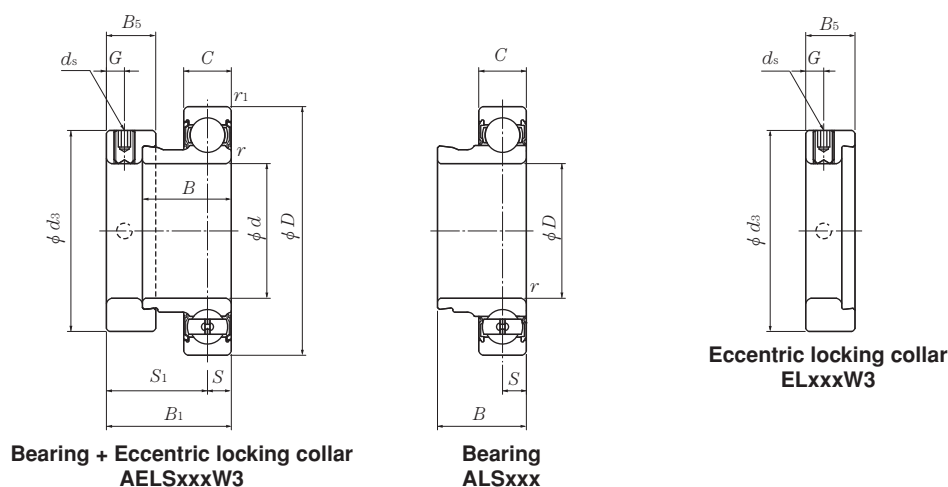


### Lubricatable type



| Nominal dimensions |       |       |       |             |             |       |       |             | Basic load ratings    |                           | Factor <sup>2)</sup> | Mass (approx.) |
|--------------------|-------|-------|-------|-------------|-------------|-------|-------|-------------|-----------------------|---------------------------|----------------------|----------------|
| $d_3$              | $D_1$ | $a_1$ | $b_1$ | mm<br>$B_5$ | inch<br>$f$ | $a_2$ | $b_2$ | $D_{2\max}$ | N<br>dynamic<br>$C_r$ | lbf<br>static<br>$C_{or}$ | $f_0$                | kg<br>lb       |
| 29                 | 38.1  | 1.98  | 1.5   | 13.6        | 1.07        | 1.9   | 2.0   | 44.6        | 9 600                 | 4 600                     | 12.8                 | 0.12           |
| 1.142              | 1.500 | 0.078 | 0.059 | 0.535       | 0.042       | 0.075 | 0.079 | 1.756       | 2 160                 | 1 030                     |                      | 0.26           |
| 29                 | 38.1  | 1.98  | 1.5   | 13.6        | 1.07        | 1.9   | 2.0   | 44.6        | 9 600                 | 4 600                     | 12.8                 | 0.11           |
| 1.142              | 1.500 | 0.078 | 0.059 | 0.535       | 0.042       | 0.075 | 0.079 | 1.756       | 2 160                 | 1 030                     |                      | 0.26           |
|                    |       |       |       |             |             |       |       |             |                       |                           |                      | 0.24           |
| 29                 | 38.1  | 1.98  | 1.5   | 13.6        | 1.07        | 1.9   | 2.0   | 44.6        | 9 600                 | 4 600                     | 12.8                 | 0.10           |
| 1.142              | 1.500 | 0.078 | 0.059 | 0.535       | 0.042       | 0.075 | 0.079 | 1.756       | 2 160                 | 1 030                     |                      | 0.23           |
| 33                 | 44.6  | 2.38  | 1.5   | 13.5        | 1.07        | 2.1   | 2.0   | 52.7        | 12 800                | 6 650                     | 13.2                 | 0.17           |
| 1.299              | 1.756 | 0.094 | 0.059 | 0.531       | 0.042       | 0.083 | 0.079 | 2.075       | 2 890                 | 1 500                     |                      | 0.35           |
| 38                 | 49.73 | 2.38  | 1.5   | 13.5        | 1.07        | 2.6   | 2.0   | 57.9        | 14 000                | 7 850                     | 13.9                 | 0.20           |
|                    |       |       |       |             |             |       |       |             |                       |                           |                      | 0.51           |
| 1.496              | 1.958 | 0.094 | 0.059 | 0.531       | 0.042       | 0.102 | 0.079 | 2.280       | 3 150                 | 1 770                     |                      | 0.48           |
|                    |       |       |       |             |             |       |       |             |                       |                           |                      | 0.45           |
|                    |       |       |       |             |             |       |       |             |                       |                           |                      | 0.42           |
| 44.5               | 59.61 | 3.18  | 2.05  | 15.9        | 1.65        | 2.1   | 2.5   | 67.7        | 19 500                | 11 300                    | 13.8                 | 0.31           |
|                    |       |       |       |             |             |       |       |             |                       |                           |                      | 0.74           |
| 1.752              | 2.347 | 0.125 | 0.081 | 0.626       | 0.065       | 0.083 | 0.098 | 2.665       | 4 400                 | 2 540                     |                      | 0.73           |
|                    |       |       |       |             |             |       |       |             |                       |                           |                      | 0.66           |
|                    |       |       |       |             |             |       |       |             |                       |                           |                      | 0.61           |
| 55.5               | 68.81 | 3.18  | 2.05  | 17.5        | 1.65        | 2.1   | 3.0   | 78.6        | 25 700                | 15 300                    | 13.8                 | 0.49           |
|                    |       |       |       |             |             |       |       |             |                       |                           |                      | 1.15           |
| 2.185              | 2.709 | 0.125 | 0.081 | 0.689       | 0.065       | 0.083 | 0.118 | 3.094       | 5 750                 | 3 450                     |                      | 1.10           |
|                    |       |       |       |             |             |       |       |             |                       |                           |                      | 1.04           |
|                    |       |       |       |             |             |       |       |             |                       |                           |                      | 0.98           |

**Ball bearings**  
**Eccentric locking collar type**

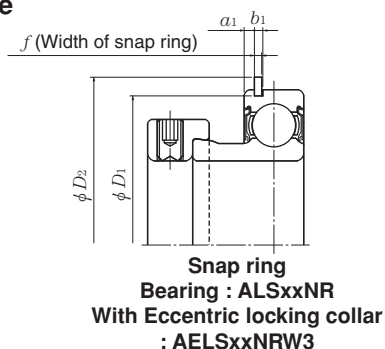
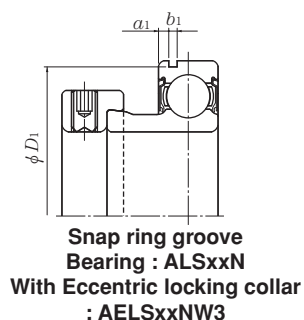
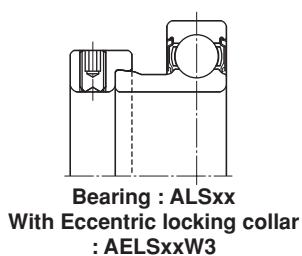


| Shaft<br>dia. | Bearing number <sup>1)</sup> | Nominal dimensions |          |                       |          |          |                                     |                                        |          |                       |          |            |  |
|---------------|------------------------------|--------------------|----------|-----------------------|----------|----------|-------------------------------------|----------------------------------------|----------|-----------------------|----------|------------|--|
|               |                              | <i>d</i>           | <i>D</i> | <i>B</i> <sub>1</sub> | <i>B</i> | <i>C</i> | <i>r</i> <sub>s</sub><br>mm<br>min. | <i>r</i> <sub>1s</sub><br>inch<br>min. | <i>S</i> | <i>S</i> <sub>1</sub> | <i>G</i> | <i>ds</i>  |  |
| <b>40</b>     | <b>AELS208NW3</b>            | 40                 | 80       | 43.7                  | 30.2     | 18       | 1.5                                 | 0.6                                    | 11       | 32.7                  | 6.8      | M10 × 1.25 |  |
| <b>1½</b>     | <b>AELS208-108NW3</b>        | 1.5000             | 3.1496   | 1.720                 | 1.1890   | 0.7087   | 0.059                               | 0.024                                  | 0.433    | 1.287                 | 0.268    | ⅜-24UNF    |  |
| <b>1⅞</b>     | <b>AELS208-109NW3</b>        | 1.5625             |          |                       |          |          |                                     |                                        |          |                       |          |            |  |
| <b>45</b>     | <b>AELS209NW3</b>            | 45                 | 85       | 43.7                  | 30.2     | 19       | 1.5                                 | 1.5                                    | 11       | 32.7                  | 6.8      | M10 × 1.25 |  |
| <b>1⅝</b>     | <b>AELS209-110NW3</b>        | 1.6250             |          |                       |          |          |                                     |                                        |          |                       |          |            |  |
| <b>1⅞</b>     | <b>AELS209-111NW3</b>        | 1.6875             | 3.3465   | 1.720                 | 1.1890   | 0.7480   | 0.059                               | 0.059                                  | 0.433    | 1.287                 | 0.268    | ⅜-24UNF    |  |
| <b>1¾</b>     | <b>AELS209-112NW3</b>        | 1.7500             |          |                       |          |          |                                     |                                        |          |                       |          |            |  |
| <b>50</b>     | <b>AELS210NW3</b>            | 50                 | 90       | 43.7                  | 30.2     | 20       | 1.5                                 | 1.5                                    | 11       | 32.7                  | 6.8      | M10 × 1.25 |  |
| <b>1⅜</b>     | <b>AELS210-113NW3</b>        | 1.8125             |          |                       |          |          |                                     |                                        |          |                       |          |            |  |
| <b>1⅞</b>     | <b>AELS210-114NW3</b>        | 1.8750             | 3.5433   | 1.720                 | 1.1890   | 0.7874   | 0.059                               | 0.059                                  | 0.433    | 1.287                 | 0.268    | ⅜-24UNF    |  |
| <b>1⅞</b>     | <b>AELS210-115NW3</b>        | 1.9375             |          |                       |          |          |                                     |                                        |          |                       |          |            |  |
| <b>2</b>      | <b>AELS210-200NW3</b>        | 2.0000             |          |                       |          |          |                                     |                                        |          |                       |          |            |  |
| <b>55</b>     | <b>AELS211NW3</b>            | 55                 | 100      | 48.4                  | 32.5     | 21       | 2                                   | 1.5                                    | 12       | 36.4                  | 8        | M10 × 1.25 |  |
| <b>2</b>      | <b>AELS211-200NW3</b>        | 2.0000             |          |                       |          |          |                                     |                                        |          |                       |          |            |  |
| <b>2⅛</b>     | <b>AELS211-201NW3</b>        | 2.0625             | 3.9370   | 1.906                 | 1.2795   | 0.8268   | 0.079                               | 0.059                                  | 0.472    | 1.433                 | 0.315    | ⅜-24UNF    |  |
| <b>2⅞</b>     | <b>AELS211-202NW3</b>        | 2.1250             |          |                       |          |          |                                     |                                        |          |                       |          |            |  |
| <b>2⅜</b>     | <b>AELS211-203NW3</b>        | 2.1875             |          |                       |          |          |                                     |                                        |          |                       |          |            |  |
| <b>60</b>     | <b>AELS212NW3</b>            | 60                 | 110      | 53.1                  | 37.2     | 22       | 2                                   | 1.5                                    | 13.5     | 39.6                  | 8        | M10 × 1.25 |  |
| <b>2¼</b>     | <b>AELS212-204NW3</b>        | 2.2500             |          |                       |          |          |                                     |                                        |          |                       |          |            |  |
| <b>2⅝</b>     | <b>AELS212-205NW3</b>        | 2.3125             | 4.3307   | 2.091                 | 1.4646   | 0.8661   | 0.079                               | 0.059                                  | 0.531    | 1.559                 | 0.315    | ⅜-24UNF    |  |
| <b>2⅜</b>     | <b>AELS212-206NW3</b>        | 2.3750             |          |                       |          |          |                                     |                                        |          |                       |          |            |  |
| <b>2⅞</b>     | <b>AELS212-207NW3</b>        | 2.4375             |          |                       |          |          |                                     |                                        |          |                       |          |            |  |

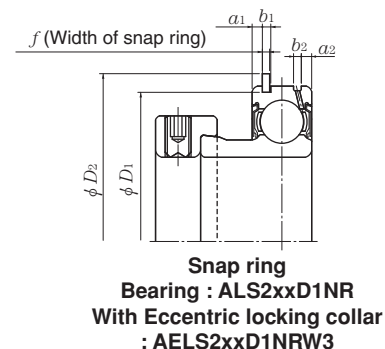
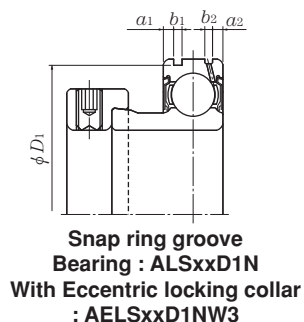
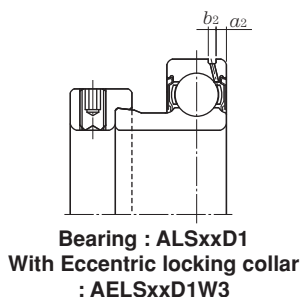
Remarks: 1) If relubricatable type is needed, please order with suffix "D1".

2) For inch series bearings, the *f*<sub>0</sub> factor for calculating equivalent radial load is the same as the metric series.

### Maintenance free type



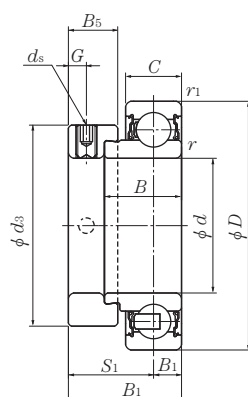
### Lubricatable type



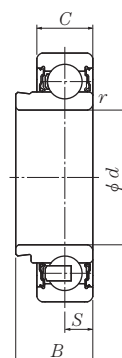
| Nominal dimensions |        |       |       |             |             |       |       |            | Basic load ratings    |                           | Factor <sup>2)</sup> | Mass (approx.)               |
|--------------------|--------|-------|-------|-------------|-------------|-------|-------|------------|-----------------------|---------------------------|----------------------|------------------------------|
| $d_3$              | $D_1$  | $a_1$ | $b_1$ | mm<br>$B_5$ | inch<br>$f$ | $a_2$ | $b_2$ | $D_{2max}$ | N<br>dynamic<br>$C_r$ | lbf<br>static<br>$C_{or}$ | $f_0$                | kg<br>lb                     |
| 60                 | 76.81  | 3.18  | 2.05  | 18.3        | 1.65        | 2.3   | 3.0   | 86.6       | 29 100                | 17 800                    | 14.0                 | 0.66                         |
| 2.362              | 3.024  | 0.125 | 0.081 | 0.720       | 0.065       | 0.091 | 0.118 | 3.409      | 6 550                 | 4 000                     |                      | 1.41<br>1.34                 |
| 63.5               | 81.81  | 3.18  | 2.05  | 18.3        | 1.65        | 2.6   | 3.0   | 91.6       | 32 500                | 20 400                    | 14.1                 | 0.73                         |
| 2.500              | 3.221  | 0.125 | 0.081 | 0.720       | 0.065       | 0.102 | 0.118 | 3.606      | 7 350                 | 4 600                     |                      | 1.81<br>1.72<br>1.63         |
| 69.5               | 86.79  | 3.18  | 2.85  | 18.3        | 2.41        | 3.5   | 3.0   | 96.5       | 35 000                | 23 200                    | 14.4                 | 0.74                         |
| 2.736              | 3.417  | 0.125 | 0.112 | 0.720       | 0.095       | 0.138 | 0.118 | 3.799      | 7 900                 | 5 200                     |                      | 1.85<br>1.76<br>1.68<br>1.59 |
| 76                 | 96.8   | 3.18  | 2.85  | 20.7        | 2.41        | 3.5   | 3.0   | 106.5      | 43 500                | 29 200                    | 14.3                 | 1.00                         |
| 2.992              | 3.811  | 0.125 | 0.112 | 0.815       | 0.095       | 0.138 | 0.118 | 4.193      | 9 750                 | 6 550                     |                      | 2.49<br>2.38<br>2.27<br>2.16 |
| 84                 | 106.81 | 3.18  | 2.85  | 22.3        | 2.41        | 3.5   | 3.0   | 116.6      | 52 500                | 36 000                    | 14.3                 | 1.33                         |
| 3.307              | 4.205  | 0.125 | 0.112 | 0.878       | 0.095       | 0.138 | 0.118 | 4.591      | 11 800                | 8 150                     |                      | 3.17<br>3.04<br>2.91<br>2.78 |

# Ball bearings

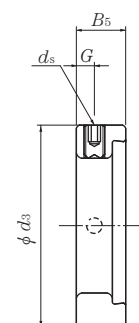
## Eccentric locking collar type



Bearing + Eccentric locking collar  
JELSxxxW3



Bearing  
JLSxx



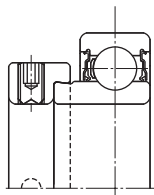
Eccentric locking collar  
ELxxxW3

| Shaft<br>dia.<br><br>mm<br>inch                                             | Bearing number <sup>1)</sup>                                                                                     | Nominal dimensions                         |              |                       |                |                |                                       |                                        |              |                       |              |                         |
|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------|-----------------------|----------------|----------------|---------------------------------------|----------------------------------------|--------------|-----------------------|--------------|-------------------------|
|                                                                             |                                                                                                                  | <i>d</i>                                   | <i>D</i>     | <i>B</i> <sub>1</sub> | <i>B</i>       | <i>C</i><br>mm | <i>r</i> <sub>s</sub><br>inch<br>min. | <i>r</i> <sub>1s</sub><br>inch<br>min. | <i>S</i>     | <i>S</i> <sub>1</sub> | <i>G</i>     | <i>ds</i>               |
| <b>12</b><br><b>1/2</b>                                                     | <b>JELS201W3</b><br><b>JELS201-008W3</b>                                                                         | 12<br>0.5000                               | 40<br>1.5748 | 28.6<br>1.126         | 19<br>0.7480   | 13<br>0.5118   | 0.6<br>0.024                          | 0.4<br>0.016                           | 6.5<br>0.256 | 22.1<br>0.870         | 4.8<br>0.189 | M6 × 0.75<br>1/4-28UNF  |
| <b>15</b><br><b>9/16</b><br><b>5/8</b>                                      | <b>JELS202W3</b><br><b>JELS202-009W3</b><br><b>JELS202-010W3</b>                                                 | 15<br>0.5625<br>0.6250                     | 40<br>1.5748 | 28.6<br>1.126         | 19<br>0.7480   | 13<br>0.5118   | 0.6<br>0.024                          | 0.4<br>0.016                           | 6.5<br>0.256 | 22.1<br>0.870         | 4.8<br>0.189 | M6 × 0.75<br>1/4-28UNF  |
| <b>17</b><br><b>11/16</b>                                                   | <b>JELS203W3</b><br><b>JELS203-011W3</b>                                                                         | 17<br>0.6875                               | 40<br>1.5748 | 28.6<br>1.126         | 19<br>0.7480   | 13<br>0.5118   | 0.6<br>0.024                          | 0.4<br>0.016                           | 6.5<br>0.256 | 22.1<br>0.870         | 4.8<br>0.189 | M6 × 0.75<br>1/4-28UNF  |
| <b>20</b><br><b>3/4</b>                                                     | <b>JELS204W3</b><br><b>JELS204-012W3</b>                                                                         | 20<br>0.7500                               | 47<br>1.8504 | 31<br>1.220           | 21.5<br>0.8465 | 15<br>0.5906   | 1<br>0.039                            | 0.6<br>0.024                           | 7.5<br>0.295 | 23.5<br>0.925         | 4.8<br>0.189 | M6 × 0.75<br>1/4-28UNF  |
| <b>25</b><br><b>13/16</b><br><b>7/8</b><br><b>15/16</b><br><b>1</b>         | <b>JELS205W3</b><br><b>JELS205-013W3</b><br><b>JELS205-014W3</b><br><b>JELS205-015W3</b><br><b>JELS205-100W3</b> | 25<br>0.8125<br>0.8750<br>0.9375<br>1.0000 | 52<br>2.0472 | 31<br>1.220           | 21.5<br>0.8465 | 15<br>0.5906   | 1<br>0.039                            | 0.6<br>0.024                           | 7.5<br>0.295 | 23.5<br>0.925         | 4.8<br>0.189 | M6 × 0.75<br>1/4-28UNF  |
| <b>30</b><br><b>1 1/16</b><br><b>1 1/8</b><br><b>1 3/16</b><br><b>1 1/4</b> | <b>JELS206W3</b><br><b>JELS206-101W3</b><br><b>JELS206-102W3</b><br><b>JELS206-103W3</b><br><b>JELS206-104W3</b> | 30<br>1.0625<br>1.1250<br>1.1875<br>1.2500 | 62<br>2.4409 | 35.7<br>1.406         | 23.8<br>0.9370 | 18<br>0.7087   | 1<br>0.039                            | 1<br>0.039                             | 9<br>0.354   | 26.7<br>1.051         | 6<br>0.236   | M8 × 1<br>5/16-24UNF    |
| <b>35</b><br><b>1 1/4</b><br><b>1 5/16</b><br><b>1 3/8</b><br><b>1 7/16</b> | <b>JELS207W3</b><br><b>JELS207-104W3</b><br><b>JELS207-105W3</b><br><b>JELS207-106W3</b><br><b>JELS207-107W3</b> | 35<br>1.2500<br>1.3125<br>1.3750<br>1.4375 | 72<br>2.8346 | 38.9<br>1.531         | 25.4<br>1.0000 | 19<br>0.7480   | 1.5<br>0.059                          | 1.5<br>0.059                           | 9.5<br>0.374 | 29.4<br>1.157         | 6.8<br>0.268 | M10 × 1.25<br>3/8-24UNF |

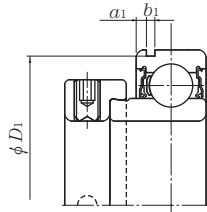
Remarks: 1) If relubricatable type is needed, please order with suffix "D1".

2) For inch series bearings, the *f*<sub>0</sub> factor for calculating equivalent radial load is the same as the metric series.

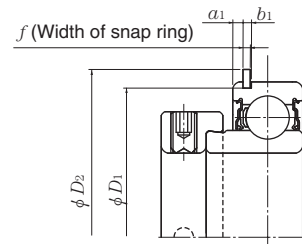
## Maintenance free type



Bearing : JLSxx  
With Eccentric locking collar  
: JELSxxW3

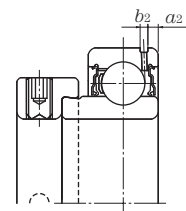


Snap ring groove  
Bearing : JLSxxN  
With Eccentric locking collar  
: JELSxxNW3

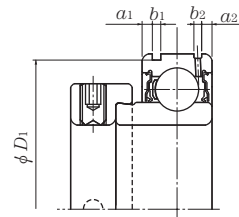


Snap ring  
Bearing : JLSxxNR  
With Eccentric locking collar  
: JELSxxNRW3

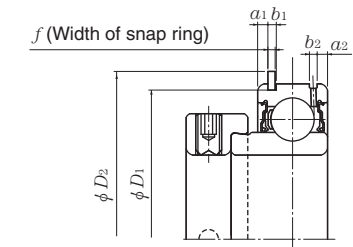
## Lubricatable type



Bearing : JLSxxD1  
With Eccentric locking collar  
: JELSxxD1W3



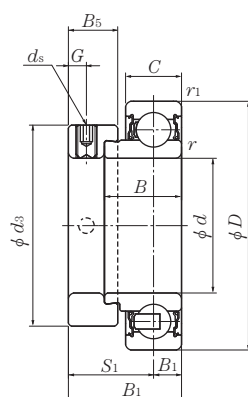
Snap ring groove  
Bearing : JLSxxD1N  
With Eccentric locking collar  
: JELSxxD1NW3



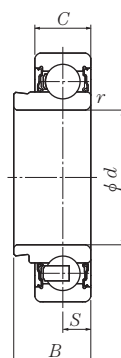
Snap ring  
Bearing : JLS2xxD1NR  
With Eccentric locking collar  
: JELS2xxD1NRW3

| Nominal dimensions |       |       |       |       |       |       |             |       | Basic load ratings    |                           | Factor <sup>2)</sup> | Mass (approx.) |
|--------------------|-------|-------|-------|-------|-------|-------|-------------|-------|-----------------------|---------------------------|----------------------|----------------|
| $d_3$              | $B_5$ | $f$   | $a_1$ | $b_1$ | $a_2$ | $b_2$ | $D_{2\max}$ | $D_1$ | N<br>dynamic<br>$C_r$ | lbf<br>static<br>$C_{or}$ | $f_0$                | kg lb          |
| 29                 | 13.6  | 1.07  | 2.2   | 1.5   | 2.2   | 2.0   | 44.6        | 38.1  | 9 600                 | 4 600                     | 12.8                 | 0.13           |
| 1.142              | 0.535 | 0.042 | 0.087 | 0.059 | 0.087 | 0.079 | 1.756       | 1.500 | 2 160                 | 1 030                     |                      | 0.28           |
| 29                 | 13.6  | 1.07  | 2.2   | 1.5   | 2.2   | 2.0   | 44.6        | 38.1  | 9 600                 | 4 600                     | 12.8                 | 0.13           |
| 1.142              | 0.535 | 0.042 | 0.087 | 0.059 | 0.087 | 0.079 | 1.756       | 1.500 | 2 160                 | 1 030                     |                      | 0.26           |
|                    |       |       |       |       |       |       |             |       |                       |                           |                      | 0.24           |
| 29                 | 13.6  | 1.07  | 2.2   | 1.5   | 2.2   | 2.0   | 44.6        | 38.1  | 9 600                 | 4 600                     | 12.8                 | 0.10           |
| 1.142              | 0.535 | 0.042 | 0.087 | 0.059 | 0.087 | 0.079 | 1.756       | 1.500 | 2 160                 | 1 030                     |                      | 0.22           |
| 33                 | 13.5  | 1.07  | 2.38  | 1.5   | 2.5   | 2.0   | 52.7        | 44.6  | 12 800                | 6 650                     | 13.2                 | 0.18           |
| 1.299              | 0.531 | 0.042 | 0.094 | 0.059 | 0.098 | 0.079 | 2.075       | 1.756 | 2 890                 | 1 500                     |                      | 0.42           |
| 38                 | 13.5  | 1.07  | 2.38  | 1.5   | 2.6   | 2.0   | 57.9        | 49.73 | 14 000                | 7 850                     |                      | 0.20           |
|                    |       |       |       |       |       |       |             |       |                       |                           | 13.9                 | 0.54           |
| 1.496              | 0.531 | 0.042 | 0.094 | 0.059 | 0.102 | 0.079 | 2.280       | 1.958 | 3 150                 | 1 770                     |                      | 0.51           |
|                    |       |       |       |       |       |       |             |       |                       |                           |                      | 0.48           |
|                    |       |       |       |       |       |       |             |       |                       |                           |                      | 0.44           |
| 44.5               | 15.9  | 1.65  | 3.7   | 2.05  | 3.0   | 2.5   | 67.7        | 59.61 | 19 500                | 11 300                    |                      | 0.34           |
|                    |       |       |       |       |       |       |             |       |                       |                           | 13.8                 | 0.84           |
| 1.752              | 0.626 | 0.065 | 0.146 | 0.081 | 0.118 | 0.098 | 2.665       | 2.347 | 4 400                 | 2 540                     |                      | 0.79           |
|                    |       |       |       |       |       |       |             |       |                       |                           |                      | 0.75           |
|                    |       |       |       |       |       |       |             |       |                       |                           |                      | 0.70           |
| 55.5               | 17.5  | 1.65  | 3.7   | 2.05  | 3.5   | 2.5   | 78.6        | 68.81 | 25 700                | 15 300                    |                      | 0.53           |
|                    |       |       |       |       |       |       |             |       |                       |                           | 13.8                 | 1.29           |
| 2.185              | 0.689 | 0.065 | 0.146 | 0.081 | 0.138 | 0.098 | 3.095       | 2.710 | 5 750                 | 3 450                     |                      | 1.24           |
|                    |       |       |       |       |       |       |             |       |                       |                           |                      | 1.18           |
|                    |       |       |       |       |       |       |             |       |                       |                           |                      | 1.12           |

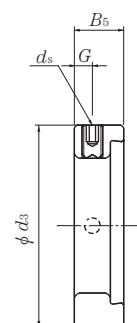
# Ball bearings Eccentric locking collar type



Bearing + Eccentric locking collar  
JELSxxxW3



Bearing  
JLSxx



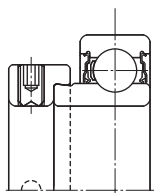
Eccentric locking collar  
ELxxxW3

| Shaft<br>dia. | Bearing number <sup>1)</sup> | Nominal dimensions |          |                       |          |          |                                     |                                        |          |                       |          |            |  |
|---------------|------------------------------|--------------------|----------|-----------------------|----------|----------|-------------------------------------|----------------------------------------|----------|-----------------------|----------|------------|--|
|               |                              | <i>d</i>           | <i>D</i> | <i>B</i> <sub>1</sub> | <i>B</i> | <i>C</i> | <i>r</i> <sub>s</sub><br>mm<br>min. | <i>r</i> <sub>1s</sub><br>inch<br>min. | <i>S</i> | <i>S</i> <sub>1</sub> | <i>G</i> | <i>ds</i>  |  |
| <b>40</b>     | <b>JELS208W3</b>             | 40                 | 80       | 43.7                  | 30.2     | 22       | 1.5                                 | 1.5                                    | 11       | 32.7                  | 6.8      | M10 × 1.25 |  |
| <b>1½</b>     | <b>JELS208-108W3</b>         | 1.5000             | 3.1496   | 1.720                 | 1.1890   | 0.8661   | 0.059                               | 0.059                                  | 0.433    | 1.287                 | 0.268    | ⅜-24UNF    |  |
| <b>1⅙</b>     | <b>JELS208-109W3</b>         | 1.5625             |          |                       |          |          |                                     |                                        |          |                       |          |            |  |
| <b>45</b>     | <b>JELS209W3</b>             | 45                 | 85       | 43.7                  | 30.2     | 22       | 1.5                                 | 1.5                                    | 11       | 32.7                  | 6.8      | M10 × 1.25 |  |
| <b>1⅝</b>     | <b>JELS209-110W3</b>         | 1.6250             |          |                       |          |          |                                     |                                        |          |                       |          |            |  |
| <b>1⅙</b>     | <b>JELS209-111W3</b>         | 1.6875             | 3.3465   | 1.720                 | 1.1890   | 0.8661   | 0.059                               | 0.059                                  | 0.433    | 1.287                 | 0.268    | ⅜-24UNF    |  |
| <b>1¾</b>     | <b>JELS209-112W3</b>         | 1.7500             |          |                       |          |          |                                     |                                        |          |                       |          |            |  |
| <b>50</b>     | <b>JELS210W3</b>             | 50                 | 90       | 43.7                  | 30.2     | 22       | 1.5                                 | 1.5                                    | 11       | 32.7                  | 6.8      | M10 × 1.25 |  |
| <b>1⅓</b>     | <b>JELS210-113W3</b>         | 1.8125             |          |                       |          |          |                                     |                                        |          |                       |          |            |  |
| <b>1⅞</b>     | <b>JELS210-114W3</b>         | 1.8750             | 3.5433   | 1.720                 | 1.1890   | 0.8661   | 0.059                               | 0.059                                  | 0.433    | 1.287                 | 0.268    | ⅜-24UNF    |  |
| <b>1⅙</b>     | <b>JELS210-115W3</b>         | 1.9375             |          |                       |          |          |                                     |                                        |          |                       |          |            |  |
| <b>2</b>      | <b>JELS210-200W3</b>         | 2.0000             |          |                       |          |          |                                     |                                        |          |                       |          |            |  |
| <b>55</b>     | <b>JELS211W3</b>             | 55                 | 100      | 48.4                  | 32.5     | 24       | 2                                   | 2                                      | 12       | 36.4                  | 8        | M10 × 1.25 |  |
| <b>2</b>      | <b>JELS211-200W3</b>         | 2.0000             |          |                       |          |          |                                     |                                        |          |                       |          |            |  |
| <b>2⅙</b>     | <b>JELS211-201W3</b>         | 2.0625             | 3.9370   | 1.906                 | 1.2795   | 0.9449   | 0.079                               | 0.079                                  | 0.472    | 1.433                 | 0.315    | ⅜-24UNF    |  |
| <b>2⅞</b>     | <b>JELS211-202W3</b>         | 2.1250             |          |                       |          |          |                                     |                                        |          |                       |          |            |  |
| <b>2⅓</b>     | <b>JELS211-203W3</b>         | 2.1875             |          |                       |          |          |                                     |                                        |          |                       |          |            |  |
| <b>60</b>     | <b>JELS212W3</b>             | 60                 | 110      | 53.1                  | 37.2     | 27       | 2                                   | 2                                      | 13.5     | 39.6                  | 8        | M10 × 1.25 |  |
| <b>2¼</b>     | <b>JELS212-204W3</b>         | 2.2500             |          |                       |          |          |                                     |                                        |          |                       |          |            |  |
| <b>2⅙</b>     | <b>JELS212-205W3</b>         | 2.3125             | 4.3307   | 2.091                 | 1.4646   | 1.0630   | 0.079                               | 0.079                                  | 0.531    | 1.559                 | 0.315    | ⅜-24UNF    |  |
| <b>2⅞</b>     | <b>JELS212-206W3</b>         | 2.3750             |          |                       |          |          |                                     |                                        |          |                       |          |            |  |
| <b>2⅙</b>     | <b>JELS212-207W3</b>         | 2.4375             |          |                       |          |          |                                     |                                        |          |                       |          |            |  |

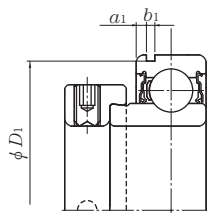
Remarks: 1) If relubricatable type is needed, please order with suffix "D1".

2) For inch series bearings, the *f*<sub>0</sub> factor for calculating equivalent radial load is the same as the metric series.

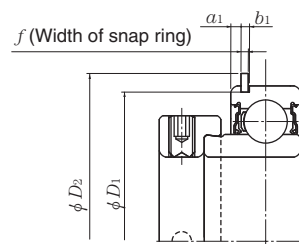
## Maintenance free type



Bearing : JLSxx  
With Eccentric locking collar  
: JELSxxW3

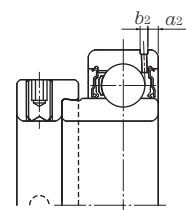


Snap ring groove  
Bearing : JLSxxN  
With Eccentric locking collar  
: JELSxxNW3

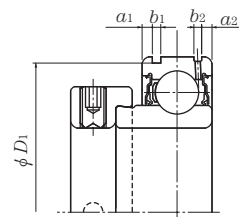


Snap ring  
Bearing : JLSxxNR  
With Eccentric locking collar  
: JELSxxNRW3

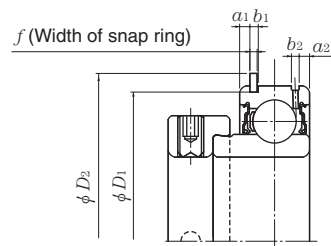
## Lubricatable type



Bearing : JLSxxD1  
With Eccentric locking collar  
: JELSxxD1W3



Snap ring groove  
Bearing : JLSxxD1N  
With Eccentric locking collar  
: JELSxxD1NW3



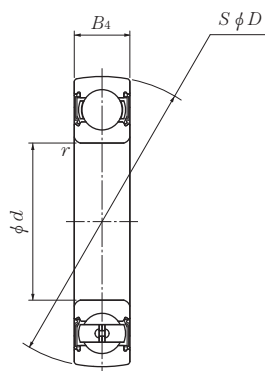
Snap ring  
Bearing : JLS2xxD1NR  
With Eccentric locking collar  
: JELS2xxD1NRW3

| Nominal dimensions |       |       |       |       |       |       |             |        | Basic load ratings    |                           | Factor <sup>2)</sup> | Mass (approx.)               |
|--------------------|-------|-------|-------|-------|-------|-------|-------------|--------|-----------------------|---------------------------|----------------------|------------------------------|
| $d_3$              | $B_5$ | $f$   | $a_1$ | $b_1$ | $a_2$ | $b_2$ | $D_{2\max}$ | $D_1$  | N<br>dynamic<br>$C_r$ | lbf<br>static<br>$C_{or}$ | $f_0$                | kg lb                        |
| 60                 | 18.3  | 1.65  | 3.8   | 2.05  | 3.5   | 3.0   | 86.6        | 76.81  | 29 100                | 17 800                    | 14.0                 | 0.71                         |
| 2.362              | 0.720 | 0.065 | 0.150 | 0.081 | 0.138 | 0.118 | 3.409       | 3.024  | 6 550                 | 4 000                     |                      | 1.64<br>1.57                 |
| 63.5               | 18.3  | 1.65  | 3.5   | 2.05  | 3.6   | 3.5   | 91.6        | 81.81  | 32 500                | 20 400                    | 14.1                 | 0.79                         |
| 2.500              | 0.720 | 0.065 | 0.138 | 0.081 | 0.142 | 0.138 | 3.606       | 3.221  | 7 350                 | 4 600                     |                      | 1.92<br>1.85<br>1.76         |
| 69.5               | 18.3  | 2.41  | 3.8   | 2.85  | 3.5   | 3.0   | 96.5        | 86.79  | 35 000                | 23 200                    | 14.4                 | 0.87                         |
| 2.736              | 0.720 | 0.095 | 0.150 | 0.112 | 0.138 | 0.118 | 3.799       | 3.417  | 7 900                 | 5 200                     |                      | 2.14<br>2.05<br>1.96<br>1.85 |
| 76                 | 20.7  | 2.41  | 4.4   | 2.85  | 4.0   | 3.0   | 106.5       | 96.80  | 43 500                | 29 200                    | 14.3                 | 1.16                         |
| 2.992              | 0.815 | 0.095 | 0.173 | 0.112 | 0.157 | 0.118 | 4.193       | 3.811  | 9 750                 | 6 550                     |                      | 2.84<br>2.73<br>2.62<br>2.51 |
| 84                 | 22.3  | 2.41  | 4.4   | 2.85  | 4.4   | 3.5   | 116.6       | 106.81 | 52 500                | 36 000                    | 14.3                 | 1.52                         |
| 3.307              | 0.878 | 0.095 | 0.173 | 0.112 | 0.173 | 0.138 | 4.590       | 4.205  | 11 800                | 8 150                     |                      | 3.59<br>3.46<br>3.33<br>3.17 |



# Ball bearings

## Tight fit type



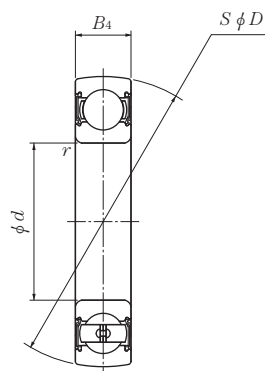
| Shaft<br>dia.<br><br>mm | Bearing<br>number | Nominal dimensions |               |               |               | Basic load ratings    |                           | Factor<br><br>$f_0$ | Mass         |    |
|-------------------------|-------------------|--------------------|---------------|---------------|---------------|-----------------------|---------------------------|---------------------|--------------|----|
|                         |                   | $d$                | mm<br>$D$     | inch<br>$B_4$ | $r_s$<br>min. | N<br>dynamic<br>$C_r$ | lbf<br>static<br>$C_{or}$ |                     | kg           | lb |
| 10                      | CS200LLU          | 10<br>0.3937       | 30<br>1.1811  | 9<br>0.354    | 0.6<br>0.024  | 5 100<br>1 150        | 2 390<br>540              | 13.2                | 0.03<br>0.07 |    |
| 12                      | CS201LLU          | 12<br>0.4724       | 32<br>1.2598  | 10<br>0.394   | 0.6<br>0.024  | 6 100<br>1 370        | 2 750<br>615              | 12.7                | 0.04<br>0.09 |    |
| 15                      | CS202LLU          | 15<br>0.5906       | 35<br>1.3780  | 11<br>0.433   | 0.6<br>0.024  | 7 750<br>1 740        | 3 600<br>805              | 12.7                | 0.04<br>0.09 |    |
| 17                      | CS203LLU          | 17<br>0.6693       | 40<br>1.5748  | 12<br>0.472   | 0.6<br>0.024  | 9 600<br>2 160        | 4 600<br>1 030            | 12.8                | 0.06<br>0.13 |    |
| 20                      | CS204LLU          | 20<br>0.7874       | 47<br>1.8504  | 14<br>0.551   | 1<br>0.039    | 12 800<br>2 890       | 6 650<br>1 500            | 13.2                | 0.10<br>0.22 |    |
| 25                      | CS205LLU          | 25<br>0.9843       | 52<br>2.0472  | 15<br>0.591   | 1<br>0.039    | 14 000<br>3 150       | 7 850<br>1 770            | 13.9                | 0.13<br>0.29 |    |
| 30                      | CS206LLU          | 30<br>1.1811       | 62<br>2.4409  | 16<br>0.630   | 1<br>0.039    | 19 500<br>4 400       | 11 300<br>2 540           | 13.8                | 0.20<br>0.44 |    |
| 35                      | CS207LLU          | 35<br>1.3780       | 72<br>2.8346  | 17<br>0.669   | 1.5<br>0.059  | 25 700<br>5 750       | 15 300<br>3 450           | 13.8                | 0.29<br>0.64 |    |
| 40                      | CS208LLU          | 40<br>1.5748       | 80<br>3.1496  | 18<br>0.709   | 1.5<br>0.059  | 29 100<br>6 550       | 17 800<br>4 000           | 14.0                | 0.37<br>0.82 |    |
| 45                      | CS209LLU          | 45<br>1.7717       | 85<br>3.3465  | 19<br>0.748   | 1.5<br>0.059  | 32 500<br>7 350       | 20 400<br>4 600           | 14.1                | 0.39<br>0.86 |    |
| 50                      | CS210LLU          | 50<br>1.9685       | 90<br>3.5433  | 20<br>0.787   | 1.5<br>0.059  | 35 000<br>7 900       | 23 200<br>5 200           | 14.4                | 0.46<br>1.01 |    |
| 55                      | CS211LLU          | 55<br>2.1654       | 100<br>3.9370 | 21<br>0.827   | 2<br>0.079    | 43 500<br>9 750       | 29 200<br>6 550           | 14.3                | 0.58<br>1.28 |    |
| 60                      | CS212LLU          | 60<br>2.3622       | 110<br>4.3307 | 22<br>0.866   | 2<br>0.079    | 52 500<br>11 800      | 36 000<br>8 150           | 14.3                | 0.76<br>1.68 |    |

Note: Symbols

$\Delta d_{mp}$ : Mean bore diameter deviation

$\Delta B_s$ : Inner ring width deviation

$\Delta C_s$ : Outer ring width deviation



| Shaft<br>dia.<br><br>mm | Bearing<br>number | Nominal dimensions |               |               |               | Basic load ratings    |                           | Factor<br><br>$f_0$ | Mass<br>(approx.) |    |
|-------------------------|-------------------|--------------------|---------------|---------------|---------------|-----------------------|---------------------------|---------------------|-------------------|----|
|                         |                   | $d$                | mm<br>$D$     | inch<br>$B_4$ | $r_s$<br>min. | N<br>dynamic<br>$C_r$ | lbf<br>static<br>$C_{or}$ |                     | kg                | lb |
| 25                      | CS305LLU          | 25<br>0.9843       | 62<br>2.4409  | 17<br>0.669   | 1.5<br>0.059  | 21 200<br>4 750       | 10 900<br>2 460           | 12.6                | 0.22<br>0.49      |    |
| 30                      | CS306LLU          | 30<br>1.1811       | 72<br>2.8346  | 19<br>0.748   | 1.5<br>0.059  | 26 700<br>6 000       | 15 000<br>3 400           | 13.3                | 0.34<br>0.75      |    |
| 35                      | CS307LLU          | 35<br>1.3780       | 80<br>3.1496  | 21<br>0.827   | 2<br>0.079    | 33 500<br>7 500       | 19 100<br>4 300           | 13.1                | 0.44<br>0.97      |    |
| 40                      | CS308LLU          | 40<br>1.5748       | 90<br>3.5433  | 23<br>0.906   | 2<br>0.079    | 40 500<br>9 150       | 24 000<br>5 400           | 13.2                | 0.62<br>1.37      |    |
| 45                      | CS309LLU          | 45<br>1.7717       | 100<br>3.9370 | 25<br>0.984   | 2<br>0.079    | 53 000<br>11 900      | 32 000<br>7 200           | 13.1                | 0.79<br>1.74      |    |
| 50                      | CS310LLU          | 50<br>1.9685       | 110<br>4.3307 | 27<br>1.063   | 2.5<br>0.098  | 62 000<br>13 900      | 38 500<br>8 600           | 13.2                | 1.06<br>2.34      |    |

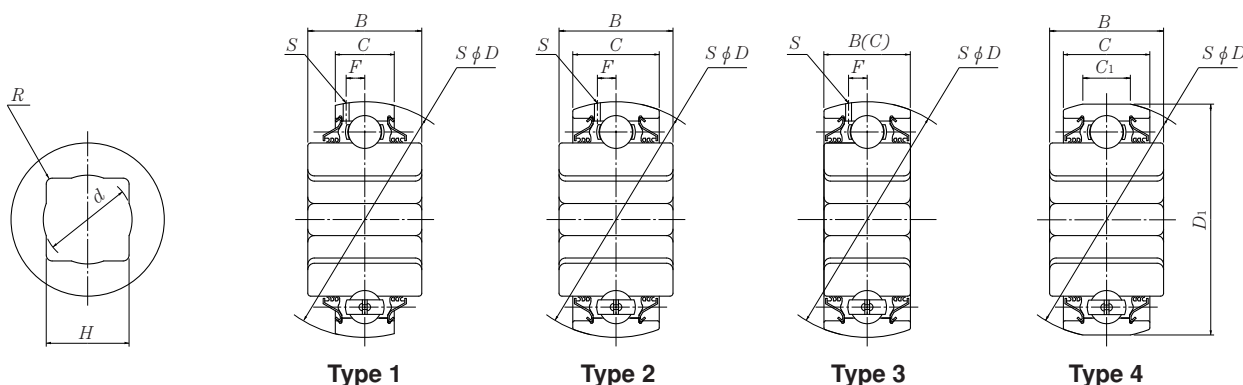
Note: Symbols

$\Delta d_{mp}$ : Mean bore diameter deviation

$\Delta B_s$ : Inner ring width deviation

$\Delta C_s$ : Outer ring width deviation

## Ball bearing, square bore, spherical O.D.



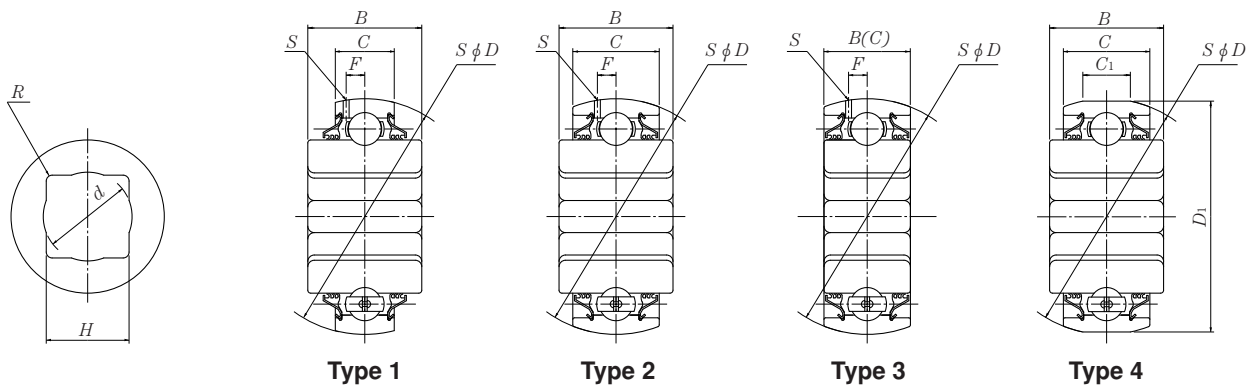
| Shaft size<br>inch | Bearing <sup>1)</sup><br>number            | Type | Nominal dimensions  |           |                         |        |          |      |         |      |         |  |
|--------------------|--------------------------------------------|------|---------------------|-----------|-------------------------|--------|----------|------|---------|------|---------|--|
|                    |                                            |      | H                   | d<br>max. | R <sup>2)</sup><br>max. | mm     | D        | inch | C       | B    |         |  |
| $\frac{7}{8}$      | <b>1AS08-<math>\frac{7}{8}</math></b>      | 1    | $22.987 \pm 0.127$  | 24.4      | 2.25                    | 80     | 0        | 18   | 0       | 36.5 | 0       |  |
|                    |                                            |      | $0.9050 \pm 0.0050$ | 0.961     | 0.089                   | 3.1496 | $-0.013$ | 0    | $-0.12$ | 0    | $-0.12$ |  |
| $\frac{7}{8}$      | <b>4AS08-<math>\frac{7}{8}</math></b>      | 4    | $22.987 \pm 0.127$  | 24.4      | 2.25                    | 87.338 | 0        | 30.2 | 0       | 36.5 | 0       |  |
|                    |                                            |      | $0.9050 \pm 0.0050$ | 0.961     | 0.089                   | 3.4385 | $-0.025$ | 0    | $-0.12$ | 0    | $-0.12$ |  |
| 1                  | <b>1AS08-1</b>                             | 1    | $26.162 \pm 0.127$  | 27.8      | 2.25                    | 80     | 0        | 18   | 0       | 36.5 | 0       |  |
|                    |                                            |      | $1.0300 \pm 0.0050$ | 1.095     | 0.089                   | 3.1496 | $-0.013$ | 0    | $-0.12$ | 0    | $-0.12$ |  |
| 1                  | <b>2AS08-1D1</b>                           | 2    | $26.162 \pm 0.127$  | 27.8      | 2.25                    | 80     | 0        | 30.2 | 0       | 36.5 | 0       |  |
|                    |                                            |      | $1.0300 \pm 0.0050$ | 1.095     | 0.089                   | 3.1496 | $-0.013$ | 0    | $-0.12$ | 0    | $-0.12$ |  |
| 1                  | <b>4AS08-1</b>                             | 4    | $26.162 \pm 0.127$  | 27.8      | 2.25                    | 87.338 | 0        | 30.2 | 0       | 36.5 | 0       |  |
|                    |                                            |      | $1.0300 \pm 0.0050$ | 1.095     | 0.089                   | 3.4385 | $-0.025$ | 0    | $-0.12$ | 0    | $-0.12$ |  |
| $1\frac{1}{8}$     | <b>1AS08-1. <math>\frac{1}{8}</math></b>   | 1    | $29.972 \pm 0.127$  | 31.4      | 2.25                    | 80     | 0        | 18   | 0       | 36.5 | 0       |  |
|                    |                                            |      | $1.1800 \pm 0.0050$ | 1.236     | 0.089                   | 3.1496 | $-0.013$ | 0    | $-0.12$ | 0    | $-0.12$ |  |
| $1\frac{1}{8}$     | <b>2AS08-1. <math>\frac{1}{8}</math>D1</b> | 2    | $29.972 \pm 0.127$  | 31.4      | 2.25                    | 80     | 0        | 30.2 | 0       | 36.5 | 0       |  |
|                    |                                            |      | $1.1800 \pm 0.0050$ | 1.236     | 0.089                   | 3.1496 | $-0.013$ | 0    | $-0.12$ | 0    | $-0.12$ |  |

Remarks: 1) Bearings suffixed with D1 have oil holes on the outer ring.

2) R min.: 0.059 inch except 3AS14-2D1 R min.: 0.126 inch.

| Nominal dimensions |                                                      |        |       |       | Basic load ratings    |                           | Factor | Mass<br>(approx.) |
|--------------------|------------------------------------------------------|--------|-------|-------|-----------------------|---------------------------|--------|-------------------|
| $D_1$              | mm                                                   | inch   | $s$   | $F$   | N<br>dynamic<br>$C_r$ | lbf<br>static<br>$C_{or}$ | $f_0$  | kg lb             |
| —                  | —                                                    | —      | —     | —     | 29 100                | 17 800                    | 14.0   | 0.73              |
| —                  | —                                                    | —      | —     | —     | 6 550                 | 4 000                     |        | 1.61              |
| 85.750             | $\begin{smallmatrix} 0 \\ -0.025 \end{smallmatrix}$  | 16.6   | —     | —     | 29 100                | 17 800                    | 14.0   | 0.93              |
| 3.3760             | $\begin{smallmatrix} 0 \\ -0.0010 \end{smallmatrix}$ | 0.6535 | —     | —     | 6 550                 | 4 000                     |        | 2.05              |
| —                  | —                                                    | —      | —     | —     | 29 100                | 17 800                    | 14.0   | 0.68              |
| —                  | —                                                    | —      | —     | —     | 6 550                 | 4 000                     |        | 1.50              |
| —                  | —                                                    | —      | 2.2   | 6.6   | 29 100                | 17 800                    | 14.0   | 0.76              |
| —                  | —                                                    | —      | 0.087 | 0.260 | 6 550                 | 4 000                     |        | 1.68              |
| 85.750             | $\begin{smallmatrix} 0 \\ -0.025 \end{smallmatrix}$  | 16.6   | —     | —     | 29 100                | 17 800                    | 14.0   | 0.89              |
| 3.3760             | $\begin{smallmatrix} 0 \\ -0.0010 \end{smallmatrix}$ | 0.6535 | —     | —     | 6 550                 | 4 000                     |        | 1.96              |
| —                  | —                                                    | —      | —     | —     | 29 100                | 17 800                    | 14.0   | 0.60              |
| —                  | —                                                    | —      | —     | —     | 6 550                 | 4 000                     |        | 1.32              |
| —                  | —                                                    | —      | 2.2   | 6.6   | 29 100                | 17 800                    | 14.0   | 0.70              |
| —                  | —                                                    | —      | 0.087 | 0.260 | 6 550                 | 4 000                     |        | 1.54              |

## Ball bearing, square bore, spherical O.D.



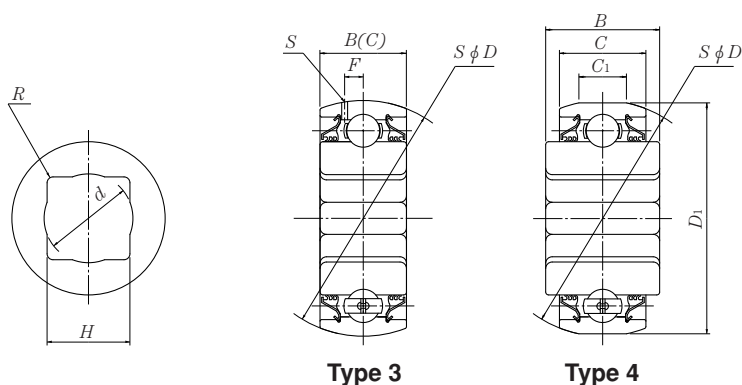
| Shaft size<br>inch | Bearing <sup>1)</sup><br>number | Type | Nominal dimensions |                  |                                |        |                        |          |                        |          |                       |  |
|--------------------|---------------------------------|------|--------------------|------------------|--------------------------------|--------|------------------------|----------|------------------------|----------|-----------------------|--|
|                    |                                 |      | <i>H</i>           | <i>d</i><br>max. | <i>R</i> <sup>2)</sup><br>max. | mm     | inch                   | <i>D</i> | <i>C</i>               | <i>B</i> |                       |  |
| 1 1/8              | 4AS08-1. 1/8                    | 4    | 29.972 ± 0.127     | 31.4             | 2.25                           | 87.338 | 0                      | 30.2     | 0                      | 36.5     | 0                     |  |
|                    |                                 |      | 1.1800 ± 0.0050    | 1.236            | 0.089                          | 3.4385 | -0.025<br>0<br>-0.0010 | 1.1890   | -0.12<br>0<br>-0.0047  | 1.4370   | -0.12<br>0<br>-0.0047 |  |
| 1 5/32             | 1AS08-1. 5/32 D1                | 1    | 30 ± 0.127         | 31.8             | 2.25                           | 80     | 0                      | 21       | 0                      | 36.5     | 0                     |  |
|                    |                                 |      | 1.1811 ± 0.0050    | 1.252            | 0.089                          | 3.1496 | -0.013<br>0<br>-0.0005 | 0.8268   | -0.12<br>0<br>-0.0047  | 1.4370   | -0.12<br>0<br>-0.0047 |  |
| 1 1/4              | 2AS09-1. 1/4 D1                 | 2    | 32.766 ± 0.127     | 34.8             | 2.25                           | 85     | 0                      | 30.2     | 0                      | 36.5     | 0                     |  |
|                    |                                 |      | 1.2900 ± 0.0050    | 1.370            | 0.089                          | 3.3465 | -0.015<br>0<br>-0.0006 | 1.1890   | -0.120<br>0<br>-0.0047 | 1.4370   | -0.12<br>0<br>-0.0047 |  |
| 1 1/4              | 4AS09-1. 1/4                    | 4    | 32.766 ± 0.127     | 34.8             | 2.25                           | 87.338 | 0                      | 30.2     | 0                      | 36.5     | 0                     |  |
|                    |                                 |      | 1.2900 ± 0.0050    | 1.370            | 0.089                          | 3.4385 | -0.025<br>0<br>-0.0010 | 1.1890   | -0.12<br>0<br>-0.0047  | 1.4370   | -0.12<br>0<br>-0.0047 |  |
| 1 1/8              | 2AS10-1. 1/8 D1                 | 2    | 29.972 ± 0.127     | 31.4             | 2.25                           | 90     | 0                      | 30.2     | 0                      | 36.5     | 0                     |  |
|                    |                                 |      | 1.1800 ± 0.0050    | 1.236            | 0.089                          | 3.5433 | -0.015<br>0<br>-0.0006 | 1.1890   | -0.12<br>0<br>-0.0047  | 1.4370   | -0.12<br>0<br>-0.0047 |  |
| 1 1/8              | 3AS10-1. 1/8 D1                 | 3    | 29.972 ± 0.127     | 31.4             | 2.25                           | 90     | 0                      | 30.2     | 0                      | 30.2     | 0                     |  |
|                    |                                 |      | 1.1800 ± 0.0050    | 1.236            | 0.089                          | 3.5433 | -0.015<br>0<br>-0.0006 | 1.1890   | -0.12<br>0<br>-0.0047  | 1.1890   | -0.12<br>0<br>-0.0047 |  |
| 1 1/2              | 1AS11-1. 1/2 D1                 | 1    | 38.89 ± 0.127      | 41.2             | 2.25                           | 100    | 0                      | 25       | 0                      | 44.45    | 0                     |  |
|                    |                                 |      | 1.5311 ± 0.0050    | 1.622            | 0.089                          | 3.9370 | -0.015<br>0<br>-0.0006 | 0.9843   | -0.15<br>0<br>-0.0059  | 1.7500   | -0.15<br>0<br>-0.0059 |  |

Remarks: 1) Bearings suffixed with D1 have oil holes on the outer ring.

2) *R* min.: 0.059 inch except 3AS14-2D1 *R* min.: 0.126 inch.

| Nominal dimensions |               |        |       |       | Basic load ratings    |                           | Factor | Mass<br>(approx.) |
|--------------------|---------------|--------|-------|-------|-----------------------|---------------------------|--------|-------------------|
| $D_1$              | mm            | inch   | $s$   | $F$   | N<br>dynamic<br>$C_r$ | lbf<br>static<br>$C_{or}$ | $f_0$  | kg lb             |
| 85.750             | 0<br>— 0.025  | 16.6   | —     | —     | 29 100                | 17 800                    | 14.0   | 0.90              |
| 3.3760             | 0<br>— 0.0010 | 0.6535 | —     | —     | 6 550                 | 4 000                     |        | 1.99              |
| —                  | —             | —      | 2.2   | 6.6   | 29 100                | 17 800                    | 14.0   | 0.64              |
| —                  | —             | —      | 0.087 | 0.260 | 6 550                 | 4 000                     |        | 1.41              |
| —                  | —             | —      | 2.2   | 6.7   | 32 500                | 20 400                    | 14.1   | 0.77              |
| —                  | —             | —      | 0.087 | 0.264 | 7 350                 | 4 600                     |        | 1.70              |
| 85.750             | 0<br>— 0.025  | 16.6   | —     | —     | 32 500                | 20 400                    | 14.1   | 0.82              |
| 3.3760             | 0<br>— 0.0010 | 0.6535 | —     | —     | 7 350                 | 4 600                     |        | 1.81              |
| —                  | —             | —      | 2.2   | 6.7   | 35 000                | 23 200                    | 14.4   | 0.98              |
| —                  | —             | —      | 0.087 | 0.264 | 7 900                 | 5 200                     |        | 2.16              |
| —                  | —             | —      | 2.2   | 6.7   | 35 000                | 23 200                    | 14.4   | 0.88              |
| —                  | —             | —      | 0.087 | 0.264 | 7 900                 | 5 200                     |        | 1.94              |
| —                  | —             | —      | 2.5   | 7.6   | 43 500                | 29 200                    | 14.3   | 1.19              |
| —                  | —             | —      | 0.098 | 0.299 | 9 750                 | 6 550                     |        | 2.63              |

## Ball bearing, square bore, spherical O.D.



Type 3

Type 4

| Shaft size<br>inch | Bearing <sup>1)</sup><br>number | Type | Nominal dimensions |                  |                                |         |                  |                    |          |               |        |               |
|--------------------|---------------------------------|------|--------------------|------------------|--------------------------------|---------|------------------|--------------------|----------|---------------|--------|---------------|
|                    |                                 |      | <i>H</i>           | <i>d</i><br>max. | <i>R</i> <sup>2)</sup><br>max. | mm      | <i>D</i><br>inch | <i>C</i>           | <i>B</i> |               |        |               |
| 1½                 | 3AS11-1.½D1                     | 3    | 38.89 ± 0.127      | 41.2             | 2.25                           | 100     | 0<br>- 0.015     | 33.3<br>- 0.15     | 33.3     | 0<br>- 0.15   | 33.3   | 0<br>- 0.15   |
|                    |                                 |      | 1.5311 ± 0.0050    | 1.622            | 0.089                          | 3.9370  | 0<br>- 0.0006    | 1.3110<br>- 0.0059 | 1.3110   | 0<br>- 0.0059 | 1.3110 | 0<br>- 0.0059 |
| 1½                 | 4AS11-1.½                       | 4    | 38.89 ± 0.127      | 41.2             | 2.25                           | 104.725 | 0<br>- 0.025     | 36.5<br>- 0.15     | 44.45    | 0<br>- 0.15   | 44.45  | 0<br>- 0.15   |
|                    |                                 |      | 1.5311 ± 0.0050    | 1.622            | 0.089                          | 4.1230  | 0<br>- 0.0010    | 1.4370<br>- 0.0059 | 1.7500   | 0<br>- 0.0059 | 1.7500 | 0<br>- 0.0059 |
| 2                  | 3AS14-2D1                       | 3    | 52.2 ± 0.127       | 54.9             | 4.0                            | 125     | 0<br>- 0.020     | 39.69<br>- 0.15    | 39.69    | 0<br>- 0.15   | 39.69  | 0<br>- 0.15   |
|                    |                                 |      | 2.0551 ± 0.0050    | 2.161            | 0.157                          | 4.9213  | 0<br>- 0.0008    | 1.5626<br>- 0.0059 | 1.5626   | 0<br>- 0.0059 | 1.5626 | 0<br>- 0.0059 |

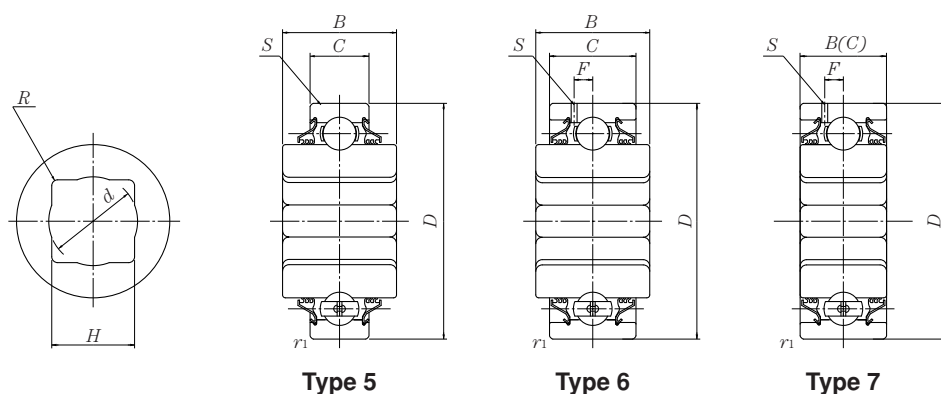
Remarks: 1) Bearings suffixed with D1 have oil holes on the outer ring.

2) *R* min.: 0.059 inch except 3AS14-2D1 *R* min.: 0.126 inch.

| Nominal dimensions              |        |       |       |       | Basic load ratings    |                           | Factor | Mass<br>(approx.) |
|---------------------------------|--------|-------|-------|-------|-----------------------|---------------------------|--------|-------------------|
| $D_1$                           | mm     | inch  | $s$   | $F$   | N<br>dynamic<br>$C_r$ | lbf<br>static<br>$C_{or}$ | $f_0$  | kg lb             |
| —                               | —      | —     | 2.5   | 7.6   | 43 500                | 29 200                    | 14.3   | 1.10              |
| —                               | —      | —     | 0.098 | 0.299 | 9 750                 | 6 550                     |        | 2.43              |
| 103.556 <sup>0</sup><br>— 0.025 | 15.9   | —     | —     | —     | 43 500                | 29 200                    | 14.3   | 1.48              |
| 4.0770 <sup>0</sup><br>— 0.0010 | 0.6142 | —     | —     | —     | 9 750                 | 6 550                     |        | 3.26              |
| —                               | 0.6260 | 3.0   | 9.4   | —     | 62 000                | 44 000                    | 14.5   | 1.90              |
| —                               | —      | 0.118 | 0.370 | —     | 14 000                | 9 900                     |        | 4.19              |



## Ball bearing, square bore, cylindrical O.D.

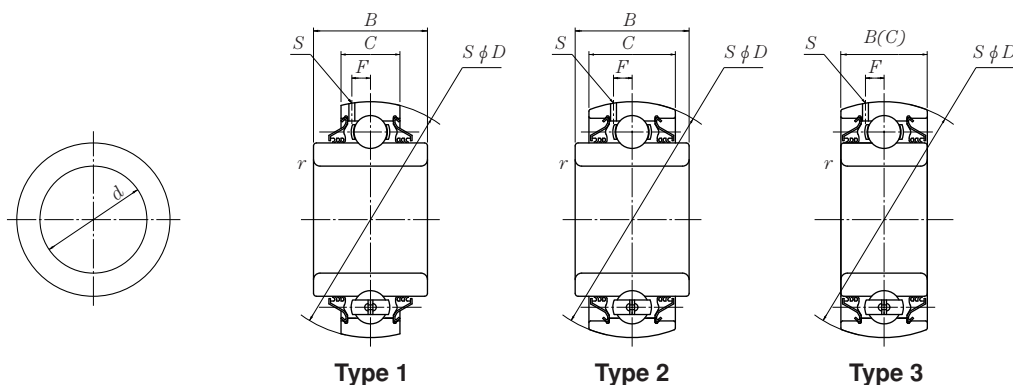


| Shaft<br>dia.<br><br>inch | Bearing <sup>1)</sup><br>number | Type | Nominal dimensions |                  |                                |        |              |          |              |          |              |  |
|---------------------------|---------------------------------|------|--------------------|------------------|--------------------------------|--------|--------------|----------|--------------|----------|--------------|--|
|                           |                                 |      | <i>H</i>           | <i>d</i><br>max. | <i>R</i> <sup>2)</sup><br>max. | mm     | inch         | <i>D</i> | <i>C</i>     | <i>B</i> |              |  |
| 1                         | 5AS08-1                         | 5    | 26.162 ± 0.127     | 27.8             | 2.25                           | 80     | 0<br>-0.013  | 18       | 0<br>-0.12   | 36.5     | 0<br>-0.12   |  |
|                           |                                 |      | 1.0300 ± 0.0050    | 1.095            | 0.089                          | 3.1496 | 0<br>-0.0005 | 0.7087   | 0<br>-0.0047 | 1.4370   | 0<br>-0.0047 |  |
| 1                         | 6AS08-1D1                       | 6    | 26.162 ± 0.127     | 27.8             | 2.25                           | 80     | 0<br>-0.013  | 30.2     | 0<br>-0.12   | 36.5     | 0<br>-0.12   |  |
|                           |                                 |      | 1.0300 ± 0.0050    | 1.095            | 0.089                          | 3.1496 | 0<br>-0.0005 | 1.1890   | 0<br>-0.0047 | 1.4370   | 0<br>-0.0047 |  |
| 1 1/8                     | 5AS08-1. 1/8                    | 5    | 29.972 ± 0.127     | 31.4             | 2.25                           | 80     | 0<br>-0.013  | 18       | 0<br>-0.12   | 36.5     | 0<br>-0.12   |  |
|                           |                                 |      | 1.1800 ± 0.0050    | 1.236            | 0.089                          | 3.1496 | 0<br>-0.0005 | 0.7087   | 0<br>-0.0047 | 1.4370   | 0<br>-0.0047 |  |
| 1 1/8                     | 6AS08-1. 1/8D1                  | 6    | 29.972 ± 0.127     | 31.4             | 2.25                           | 80     | 0<br>-0.013  | 30.2     | 0<br>-0.12   | 36.5     | 0<br>-0.12   |  |
|                           |                                 |      | 1.1800 ± 0.0050    | 1.236            | 0.089                          | 3.1496 | 0<br>-0.0005 | 1.1890   | 0<br>-0.0047 | 1.4370   | 0<br>-0.0047 |  |
| 1 1/8                     | 7AS10-1. 1/8D1                  | 7    | 29.972 ± 0.127     | 31.4             | 2.25                           | 90     | 0<br>-0.015  | 30.2     | 0<br>-0.12   | 30.2     | 0<br>-0.12   |  |
|                           |                                 |      | 1.1800 ± 0.0050    | 1.236            | 0.089                          | 3.5433 | 0<br>-0.0006 | 1.1890   | 0<br>-0.0047 | 1.1890   | 0<br>-0.0047 |  |
| 1 1/2                     | 7AS11-1. 1/2D1                  | 7    | 38.89 ± 0.127      | 41.2             | 2.25                           | 100    | 0<br>-0.015  | 33.3     | 0<br>-0.15   | 33.3     | 0<br>-0.15   |  |
|                           |                                 |      | 1.5311 ± 0.0050    | 1.622            | 0.089                          | 3.9370 | 0<br>-0.0006 | 1.3110   | 0<br>-0.0059 | 1.3110   | 0<br>-0.0059 |  |

Remarks: 1) Bearings suffixed with D1 have oil holes on the outer ring.  
2) *R* min.: 0.059 inch.

| Nominal dimensions     |             |       | Basic load ratings    |                           | Factor | Mass<br>(approx.) |
|------------------------|-------------|-------|-----------------------|---------------------------|--------|-------------------|
| $r_{1s}$<br>mm<br>min. | $s$<br>inch | $F$   | $C_r$<br>N<br>dynamic | $C_{or}$<br>lbf<br>static | $f_0$  | kg lb             |
| 0.6                    | —           | —     | 29 100                | 17 800                    | 14.0   | 0.66              |
| 0.024                  | —           | —     | 6 550                 | 4 000                     |        | 1.46              |
| 1.5                    | 2.2         | 6.6   | 29 100                | 17 800                    | 14.0   | 0.78              |
| 0.059                  | 0.087       | 0.260 | 6 550                 | 4 000                     |        | 1.72              |
| 0.6                    | —           | —     | 29 100                | 17 800                    | 14.0   | 0.61              |
| 0.024                  | —           | —     | 6 550                 | 4 000                     |        | 1.35              |
| 1.5                    | 2.2         | 6.6   | 29 100                | 17 800                    | 14.0   | 0.73              |
| 0.059                  | 0.087       | 0.260 | 6 550                 | 4 000                     |        | 1.61              |
| 1.5                    | 2.2         | 6.7   | 35 000                | 23 200                    | 14.4   | 0.90              |
| 0.059                  | 0.087       | 0.264 | 7 900                 | 5 200                     |        | 1.99              |
| 2                      | 2.5         | 7.6   | 43 500                | 29 200                    | 14.3   | 1.12              |
| 0.079                  | 0.098       | 0.299 | 9 750                 | 6 550                     |        | 2.47              |

## Ball bearing, round bore, spherical O.D.

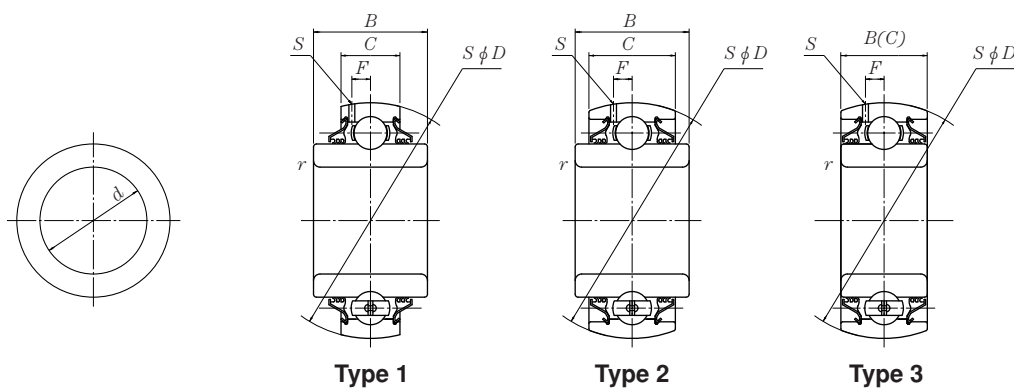


| Shaft<br>dia.<br><br>inch       | Bearing <sup>1)</sup><br>number           | Type | Nominal dimensions |              |          |              |        |              |        |              |
|---------------------------------|-------------------------------------------|------|--------------------|--------------|----------|--------------|--------|--------------|--------|--------------|
|                                 |                                           |      | <i>d</i>           |              | <i>D</i> | mm           | inch   | <i>C</i>     |        | <i>B</i>     |
| 1 <sup>3</sup> / <sub>16</sub>  | 1AC08-1. <sup>3</sup> / <sub>16</sub>     | 1    | 30.175             | 0<br>-0.013  | 80       | 0<br>-0.013  | 18     | 0<br>-0.12   | 30.2   | 0<br>-0.12   |
|                                 |                                           |      | 1.1880             | 0<br>-0.0005 | 3.1496   | 0<br>-0.0005 | 0.7087 | 0<br>-0.0047 | 1.1890 | 0<br>-0.0047 |
| 1.7717                          | 3AC09D1                                   | 3    | 45                 | 0<br>-0.013  | 85       | 0<br>-0.015  | 30.2   | 0<br>-0.12   | 30.2   | 0<br>-0.12   |
|                                 |                                           |      | 1.7717             | 0<br>-0.0005 | 3.3465   | 0<br>-0.0006 | 1.1890 | 0<br>-0.0047 | 1.1890 | 0<br>-0.0047 |
| 1 <sup>1</sup> / <sub>2</sub>   | 3AC09-1. <sup>1</sup> / <sub>2</sub> D1   | 3    | 38.989             | 0<br>-0.254  | 85       | 0<br>-0.015  | 30.2   | 0<br>-0.12   | 30.2   | 0<br>-0.12   |
|                                 |                                           |      | 1.5350             | 0<br>-0.0100 | 3.3465   | 0<br>-0.0006 | 1.1890 | 0<br>-0.0047 | 1.1890 | 0<br>-0.0047 |
| 1 <sup>3</sup> / <sub>4</sub>   | 3AC10-1. <sup>3</sup> / <sub>4</sub> D1   | 3    | 45.339             | 0<br>-0.254  | 90       | 0<br>-0.015  | 30.2   | 0<br>-0.12   | 30.2   | 0<br>-0.12   |
|                                 |                                           |      | 1.7850             | 0<br>-0.0100 | 3.5433   | 0<br>-0.0006 | 1.1890 | 0<br>-0.0047 | 1.1890 | 0<br>-0.0047 |
| 1 <sup>15</sup> / <sub>16</sub> | 3AC10-1. <sup>15</sup> / <sub>16</sub> D1 | 3    | 49.225             | 0<br>-0.013  | 90       | 0<br>-0.015  | 30.2   | 0<br>-0.12   | 30.2   | 0<br>-0.12   |
|                                 |                                           |      | 1.9380             | 0<br>-0.0005 | 3.5433   | 0<br>-0.0006 | 1.1890 | 0<br>-0.0047 | 1.1890 | 0<br>-0.0047 |
| 2 <sup>3</sup> / <sub>16</sub>  | 3AC11-2. <sup>3</sup> / <sub>16</sub> D1  | 3    | 55.575             | 0<br>-0.015  | 100      | 0<br>-0.015  | 33.3   | 0<br>-0.15   | 33.3   | 0<br>-0.15   |
|                                 |                                           |      | 2.1880             | 0<br>-0.0006 | 3.9370   | 0<br>-0.0006 | 1.3110 | 0<br>-0.0059 | 1.3110 | 0<br>-0.0059 |

Remarks: 1) Bearings suffixed with D1 have oil holes on the outer ring.

| Nominal dimensions  |             |       | Basic load ratings    |                           | Factor | Mass<br>(approx.) |
|---------------------|-------------|-------|-----------------------|---------------------------|--------|-------------------|
| $r_s$<br>mm<br>min. | $s$<br>inch | $F$   | $C_r$<br>N<br>dynamic | $C_{or}$<br>lbf<br>static | $f_0$  | kg lb             |
| 1.5                 | —           | —     | 29 100                | 17 800                    | 14.0   | 0.61              |
| 0.059               | —           | —     | 6 550                 | 4 000                     |        | 1.35              |
| 1.5                 | 2.2         | 6.7   | 32 500                | 20 400                    | 14.1   | 0.59              |
| 0.059               | 0.087       | 0.264 | 7 350                 | 4 600                     |        | 1.30              |
| 1.5                 | 2.2         | 6.7   | 32 500                | 20 400                    | 14.1   | 0.68              |
| 0.059               | 0.087       | 0.264 | 7 350                 | 4 600                     |        | 1.50              |
| 1.5                 | 2.2         | 6.7   | 35 000                | 23 200                    | 14.4   | 0.70              |
| 0.059               | 0.087       | 0.264 | 7 900                 | 5 200                     |        | 1.54              |
| 1.5                 | 2.2         | 6.7   | 35 000                | 23 200                    | 14.4   | 0.65              |
| 0.059               | 0.087       | 0.264 | 7 900                 | 5 200                     |        | 1.43              |
| 2                   | 2.5         | 7.6   | 43 500                | 29 200                    | 14.3   | 0.87              |
| 0.079               | 0.098       | 0.299 | 9 750                 | 6 550                     |        | 1.92              |

## Ball bearing, round bore, spherical O.D.

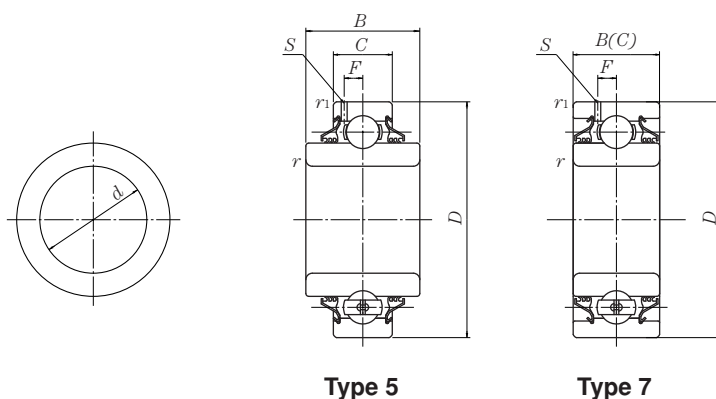


| Shaft<br>dia.<br><br>inch       | Bearing <sup>1)</sup><br>number           | Type | Nominal dimensions |               |          |               |          |               |
|---------------------------------|-------------------------------------------|------|--------------------|---------------|----------|---------------|----------|---------------|
|                                 |                                           |      | <i>d</i>           |               | <i>D</i> |               | <i>C</i> | <i>B</i>      |
|                                 |                                           |      |                    | mm            |          | inch          |          |               |
| 2.7559                          | 3AC14D1                                   | 3    | 70                 | 0<br>— 0.015  | 125      | 0<br>— 0.020  | 39.69    | 0<br>— 0.15   |
|                                 |                                           |      | 2.7559             | 0<br>— 0.0006 | 4.9213   | 0<br>— 0.0008 | 1.5626   | 0<br>— 0.0059 |
|                                 |                                           |      |                    |               |          |               |          |               |
| 1 <sup>15</sup> / <sub>16</sub> | 3AC14-1. <sup>15</sup> / <sub>16</sub> D1 | 3    | 49.225             | 0<br>— 0.015  | 125      | 0<br>— 0.020  | 39.69    | 0<br>— 0.15   |
|                                 |                                           |      | 1.9380             | 0<br>— 0.0006 | 4.9213   | 0<br>— 0.0008 | 1.5626   | 0<br>— 0.0059 |
|                                 |                                           |      |                    |               |          |               |          |               |

Remarks: 1) Bearings suffixed with D1 have oil holes on the outer ring.

| Nominal dimensions |       |       | Basic load ratings |          | Factor | Mass<br>(approx.) |
|--------------------|-------|-------|--------------------|----------|--------|-------------------|
| $r_s$<br>min.      | $s$   | $F$   | $C_r$              | $C_{or}$ | $f_0$  |                   |
| mm                 | inch  |       | N                  | lbf      |        | kg lb             |
| 2                  | 3.0   | 9.4   | 62 000             | 44 000   | 14.5   | 1.56              |
| 0.079              | 0.118 | 0.370 | 14 000             | 9 900    |        | 3.44              |
| 2                  | 3.0   | 9.4   | 62 000             | 4 4000   | 14.5   | 2.20              |
| 0.079              | 0.118 | 0.370 | 14 000             | 9 900    |        | 4.85              |

## Ball bearing, round bore, cylindrical O.D.



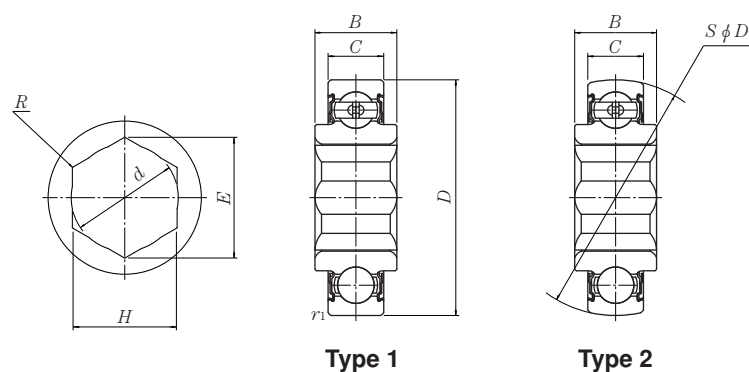
| Shaft<br>dia.<br><br>inch       | Bearing <sup>1)</sup><br>number           | Type | Nominal dimensions |              |          |              |        |              |        |              |
|---------------------------------|-------------------------------------------|------|--------------------|--------------|----------|--------------|--------|--------------|--------|--------------|
|                                 |                                           |      | <i>d</i>           |              | <i>D</i> | mm           | inch   | <i>C</i>     |        | <i>B</i>     |
| 1.1811                          | 5AC06                                     | 5    | 30                 | 0<br>-0.010  | 62       | 0<br>-0.013  | 16     | 0<br>-0.12   | 25.4   | 0<br>-0.12   |
|                                 |                                           |      | 1.1811             | 0<br>-0.0004 | 2.4409   | 0<br>-0.0005 | 0.6299 | 0<br>-0.0047 | 1.0000 | 0<br>-0.0047 |
| 1 <sup>15</sup> / <sub>16</sub> | 5AC10-1. <sup>15</sup> / <sub>16</sub>    | 5    | 49.225             | 0<br>-0.013  | 90       | 0<br>-0.015  | 20     | 0<br>-0.12   | 49.2   | 0<br>-0.12   |
|                                 |                                           |      | 1.9380             | 0<br>-0.0005 | 3.5433   | 0<br>-0.0006 | 0.7874 | 0<br>-0.0047 | 1.9370 | 0<br>-0.0047 |
| 1 <sup>13</sup> / <sub>32</sub> | 7AC10-1. <sup>13</sup> / <sub>32</sub> D1 | 7    | 35.725             | 0<br>-0.013  | 90       | 0<br>-0.015  | 30.2   | 0<br>-0.12   | 30.2   | 0<br>-0.12   |
|                                 |                                           |      | 1.4065             | 0<br>-0.0005 | 3.5433   | 0<br>-0.0006 | 1.1890 | 0<br>-0.0047 | 1.1890 | 0<br>-0.0047 |
| 1 <sup>15</sup> / <sub>16</sub> | 7AC10-1. <sup>15</sup> / <sub>16</sub> D1 | 7    | 49.225             | 0<br>-0.013  | 90       | 0<br>-0.015  | 30.2   | 0<br>-0.12   | 30.2   | 0<br>-0.12   |
|                                 |                                           |      | 1.9380             | 0<br>-0.0005 | 3.5433   | 0<br>-0.0006 | 1.1890 | 0<br>-0.0047 | 1.1890 | 0<br>-0.0047 |
| 2 <sup>3</sup> / <sub>16</sub>  | 7AC11-2. <sup>3</sup> / <sub>16</sub> D1  | 7    | 55.575             | 0<br>-0.015  | 100      | 0<br>-0.015  | 33.3   | 0<br>-0.15   | 33.3   | 0<br>-0.15   |
|                                 |                                           |      | 2.1880             | 0<br>-0.0006 | 3.9370   | 0<br>-0.0006 | 1.3110 | 0<br>-0.0059 | 1.3110 | 0<br>-0.0059 |

Remarks: 1) Bearings suffixed with D1 have oil holes on the outer ring.

| Nominal dimensions |                        |             |       | Basic load ratings    |                           | Factor | Mass<br>(approx.) |
|--------------------|------------------------|-------------|-------|-----------------------|---------------------------|--------|-------------------|
| $r_s$<br>min.      | mm<br>$r_{1s}$<br>min. | inch<br>$s$ | $F$   | N<br>dynamic<br>$C_r$ | lbf<br>static<br>$C_{or}$ | $f_0$  | kg lb             |
| 1                  | 0.6                    | —           | —     | 19 500                | 11 300                    | 13.8   | 0.21              |
| 0.039              | 0.024                  | —           | —     | 4 400                 | 2 540                     |        | 0.46              |
| 1.5                | 1.5                    | —           | —     | 35 000                | 23 200                    | 14.4   | 0.74              |
| 0.059              | 0.059                  | —           | —     | 7 900                 | 5 200                     |        | 1.63              |
| 1.5                | 1.5                    | 2.2         | 6.7   | 35 000                | 23 200                    | 14.4   | 0.88              |
| 0.059              | 0.059                  | 0.087       | 0.264 | 7 900                 | 5 200                     |        | 1.94              |
| 1.5                | 1.5                    | 2.2         | 6.7   | 35 000                | 23 200                    | 14.4   | 0.68              |
| 0.059              | 0.059                  | 0.087       | 0.264 | 7 900                 | 5 200                     |        | 1.50              |
| 2                  | 2                      | 2.5         | 7.6   | 43 500                | 29 200                    | 14.3   | 0.91              |
| 0.079              | 0.079                  | 0.098       | 0.299 | 9 750                 | 6 550                     |        | 2.01              |



## Ball bearing, hex-bore

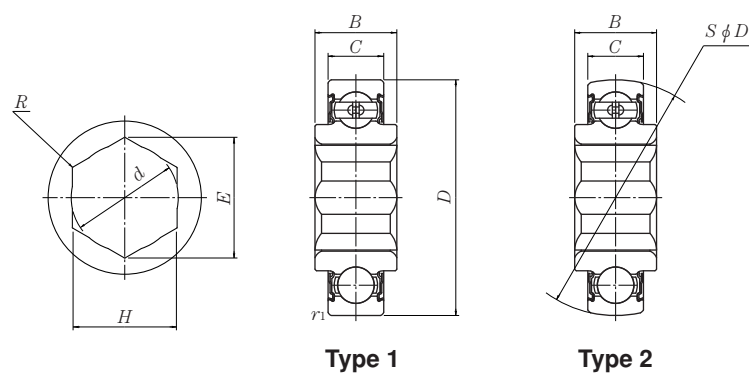


| Shaft size<br>inch | Bearing <sup>1)</sup><br>number          | Type | Nominal dimensions       |                  |                  |                  |          |                |        |                |
|--------------------|------------------------------------------|------|--------------------------|------------------|------------------|------------------|----------|----------------|--------|----------------|
|                    |                                          |      | <i>H</i>                 | <i>d</i><br>max. | <i>R</i><br>max. | <i>E</i><br>min. | <i>D</i> | <i>C</i>       |        |                |
| $\frac{9}{16}$     | <b>1AH03-<math>\frac{9}{16}</math></b>   | 1    | 14.3<br>$+0.127$<br>0    | 14.7             | 0.25             | 16.435           | 40       | 0<br>$-0.011$  | 12     | 0<br>$-0.12$   |
|                    |                                          |      | 0.5630<br>$+0.0050$<br>0 | 0.579            | 0.010            | 0.6470           | 1.5748   | 0<br>$-0.0004$ | 0.4724 | 0<br>$-0.0047$ |
| $\frac{11}{16}$    | <b>1AH04-<math>\frac{11}{16}</math></b>  | 1    | 17.653<br>$+0.127$<br>0  | 18.1             | 0.25             | 20.307           | 47       | 0<br>$-0.011$  | 14     | 0<br>$-0.12$   |
|                    |                                          |      | 0.6950<br>$+0.0050$<br>0 | 0.713            | 0.010            | 0.7995           | 1.8504   | 0<br>$-0.0004$ | 0.5512 | 0<br>$-0.0047$ |
| $\frac{7}{8}$      | <b>1AH05-<math>\frac{7}{8}</math></b>    | 1    | 22.250<br>$+0.127$<br>0  | 22.8             | 0.25             | 25.615           | 52       | 0<br>$-0.013$  | 15     | 0<br>$-0.12$   |
|                    |                                          |      | 0.8760<br>$+0.0050$<br>0 | 0.898            | 0.010            | 1.0085           | 2.0472   | 0<br>$-0.0005$ | 0.5906 | 0<br>$-0.0047$ |
| <b>1</b>           | <b>1AH06-1</b>                           | 1    | 25.425<br>$+0.127$<br>0  | 26.1             | 0.25             | 29.281           | 62       | 0<br>$-0.013$  | 16     | 0<br>$-0.12$   |
|                    |                                          |      | 1.0010<br>$+0.0050$<br>0 | 1.028            | 0.010            | 1.1528           | 2.4409   | 0<br>$-0.0005$ | 0.6299 | 0<br>$-0.0047$ |
| $\frac{7}{8}$      | <b>2AH05-<math>\frac{7}{8}</math></b>    | 2    | 22.25<br>$+0.127$<br>0   | 22.8             | 0.25             | 25.615           | 52       | 0<br>$-0.013$  | 15     | 0<br>$-0.12$   |
|                    |                                          |      | 0.8760<br>$+0.0050$<br>0 | 0.898            | 0.010            | 1.0085           | 2.0472   | 0<br>$-0.0005$ | 0.5906 | 0<br>$-0.0047$ |
| <b>1</b>           | <b>2AH06-1</b>                           | 2    | 25.425<br>$+0.127$<br>0  | 26.1             | 0.25             | 29.281           | 62       | 0<br>$-0.013$  | 16     | 0<br>$-0.12$   |
|                    |                                          |      | 1.0010<br>$+0.0050$<br>0 | 1.028            | 0.010            | 1.1528           | 2.4409   | 0<br>$-0.0005$ | 0.6299 | 0<br>$-0.0047$ |
| $1\frac{1}{8}$     | <b>2AH07-1. <math>\frac{1}{8}</math></b> | 2    | 28.6<br>$+0.127$<br>0    | 29.3             | 0.25             | 32.947           | 72       | 0<br>$-0.013$  | 17     | 0<br>$-0.12$   |
|                    |                                          |      | 1.1260<br>$+0.0050$<br>0 | 1.154            | 0.010            | 1.2971           | 2.8346   | 0<br>$-0.0005$ | 0.6693 | 0<br>$-0.0047$ |

Remarks: 1) Bearings suffixed with D1 have oil holes on the outer ring.

| Nominal dimensions |                                        |  | Basic load ratings                   |                                        | Factor                | Mass<br>(approx.) |
|--------------------|----------------------------------------|--|--------------------------------------|----------------------------------------|-----------------------|-------------------|
| mm<br><i>B</i>     | inch<br><i>r</i> <sub>1s</sub><br>min. |  | N<br>dynamic<br><i>C<sub>r</sub></i> | lbf<br>static<br><i>C<sub>or</sub></i> | <i>f</i> <sub>0</sub> | kg lb             |
| 20.3<br>— 0.12     | 0.6                                    |  | 9 600                                | 4 600                                  | 12.8                  | 0.08              |
| 0.7992<br>— 0.0047 | 0.024                                  |  | 2 160                                | 1 030                                  |                       | 0.18              |
| 21<br>— 0.12       | 0.6                                    |  | 12 800                               | 6 650                                  | 13.2                  | 0.13              |
| 0.8268<br>— 0.0047 | 0.024                                  |  | 2 890                                | 1 500                                  |                       | 0.29              |
| 25.4<br>— 0.12     | 0.6                                    |  | 14 000                               | 7 850                                  | 13.9                  | 0.16              |
| 1.0000<br>— 0.0047 | 0.024                                  |  | 3 150                                | 1 770                                  |                       | 0.35              |
| 24<br>— 0.12       | 0.6                                    |  | 19 500                               | 11 300                                 | 13.8                  | 0.24              |
| 0.9449<br>— 0.0047 | 0.024                                  |  | 4 400                                | 2 540                                  |                       | 0.53              |
| 25.4<br>— 0.12     | —                                      |  | 14 000                               | 7 850                                  | 13.9                  | 0.16              |
| 1.0000<br>— 0.0047 | —                                      |  | 3 150                                | 1 770                                  |                       | 0.35              |
| 24<br>— 0.12       | —                                      |  | 19 500                               | 11 300                                 | 13.8                  | 0.24              |
| 0.9449<br>— 0.0047 | —                                      |  | 4 400                                | 2 540                                  |                       | 0.53              |
| 37.7<br>— 0.12     | —                                      |  | 25 700                               | 15 300                                 | 13.8                  | 0.45              |
| 1.4843<br>— 0.0047 | —                                      |  | 5 750                                | 3 450                                  |                       | 0.99              |

## Ball bearing, hex-bore



| Shaft size<br>inch | Bearing <sup>1)</sup><br>number | Type | Nominal dimensions |                  |                  |                  |          |          |         |         |
|--------------------|---------------------------------|------|--------------------|------------------|------------------|------------------|----------|----------|---------|---------|
|                    |                                 |      | <i>H</i>           | <i>d</i><br>max. | <i>R</i><br>max. | <i>E</i><br>min. | <i>D</i> | <i>C</i> |         |         |
| 1½                 | 2AH09-1.½                       | 2    | 38.125             | 39               | 0.25             | 43.946           | 85       | 19       | 0       | 0       |
|                    |                                 |      | 1.5010             | 1.535            | 0.010            | 1.7302           | 3.3465   | 0.7480   | -0.015  | -0.12   |
|                    |                                 |      |                    |                  |                  |                  |          |          | 0       | 0       |
|                    |                                 |      |                    |                  |                  |                  |          |          | -0.0006 | -0.0047 |

Remarks: 1) Bearings suffixed with D1 have oil holes on the outer ring.

| Nominal dimensions |                                        |   | Basic load ratings                   |                                        | Factor                | Mass<br>(approx.) |
|--------------------|----------------------------------------|---|--------------------------------------|----------------------------------------|-----------------------|-------------------|
| mm<br><i>B</i>     | inch<br><i>r</i> <sub>1s</sub><br>min. |   | N<br>dynamic<br><i>C<sub>r</sub></i> | lbf<br>static<br><i>C<sub>or</sub></i> | <i>f</i> <sub>0</sub> | kg lb             |
| 30                 | 0<br>— 0.12                            | — | 32 500                               | 20 400                                 | 14.1                  | 0.54              |
| 1.1811             | 0<br>— 0.0047                          | — | 7 350                                | 4 600                                  |                       | 1.19              |