







































Housings		Cast Iron Housings						Pressed Steel Plate Housings			
		 P,PK,LP	 PA,PG,PA2A	 F,FX,FU FS	 FL,FLU FLX,LF,FD	 FC	 T,ST	 PP	 PFL	 PF	 PFT
Setscrew Type	 UC2	UCP2 UCPK2	UCPA2 UCPA2A UCPG2	UCF2	UCFL2	UCFC2	UCT2 UCST2				
	C-1	B-2,B-7	B15~17	B-19	B-32	B-48	B-53,B-55				
	 UCX	UCPX		UCFX	UCFLX						
	C-3	B-9		B-25	B-36						
	 UC3	UCP3		UCF3 UCFS3	UCFL3						
	C-4	B-10		B-26,B-29	B-39						
SB2,SB2G	 SB2,SB2G	SBP2G SBLP2G		SBF2G	SBFL2G SBLF2G SBFD2G			SBPP2	SBPFL2	SBPF2	SBPFT2
	C-13	B-5,B-13		B-24	B-38,B-42,B-44			B-18	B-47	B-51	B-52
Eccentric Locking Collar Type	 NA2	NAP2 NAPK2		NAF2 NAFU2	NAFL2 NAFLU2	NAFC 2	NAT2				
	C-5	B-3,B-8		B-20,B-21	B-33,B-34	B-49	B-54				
	 NA3	NAP3		NAF3 NAFS3	NAFL3						
	C-6	B-11		B-27,B-30	B-40						
SA2,SA2G	 SA2,SA2G	SAP2G SALP2G		SAF2G	SAFL2G SALF2G SAFD2G			SAPP2	SAPFL2	SAPF2	SAPFT2
	C-12	B-16,B-13		B-23	B-37,B-42,B-44			B-18	B-47	B-51	B-52
Adapter Type	 UK2	UKP2+H		UKF2+H	UKFL2+H	UKFC2+H					
	C-7	B-4		B-22	B-35	B-50					
	 UK3	UKP3+H		UKF3+H UKFS3+H	UKFL3+H						
C-8	B-12		B-28,B-31	B-41							

Others

 UCPH2	 SALFTC2G SBLFTC2G	 SAPFTD2G SBPFTD2G	 SAFCT2G SBFCT2G	 UCC2	 UCFB2	 UCFA2	 UCHA2	 Disk Harrow Units	Farm Implement Ball Bearings, Hex-bore Ball Bearings		
B-14	B-43	B-45	B-46	B-56	B-57	B-58	B-59	B-60	C-17,C-18,C-19		
 UC2T	 HC2	 RB2	 ER2 SER2	 ER2T	 GRA2 SA0	 CSB2	 CSA0 CSA2 RA2	 CS2 ORAE	 NAA3	Eccentric Locking Collar A200 A300	Adapter Steeve Locking H2300
C-2	C-5	C-1	C-9,C-11	C-10	C-14,C-15	C-13	C-12,C-14,C-15	C-16	C-15	C-20,C-21	C-22

## 1. Features of TR Ball Bearing Units

Spherical outside surface ball bearing units consist of inserts and housings, based on the methods of mounting the units to shafts, they can be divided into four types: the setscrews type, the adapter sleeve locking type, the eccentric locking collar type and the centric locking collar type.

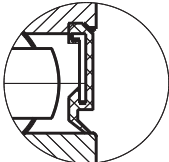
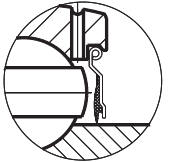
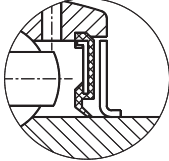
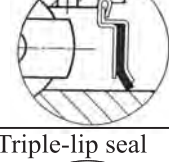
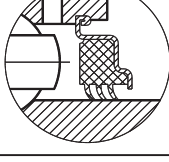
The housings have two types: Grey or Ductile Cast iron housings and pressed steel plate housings.

Spherical outside surface self-aligning ball bearing units are compact in design with perfect sealing devices.

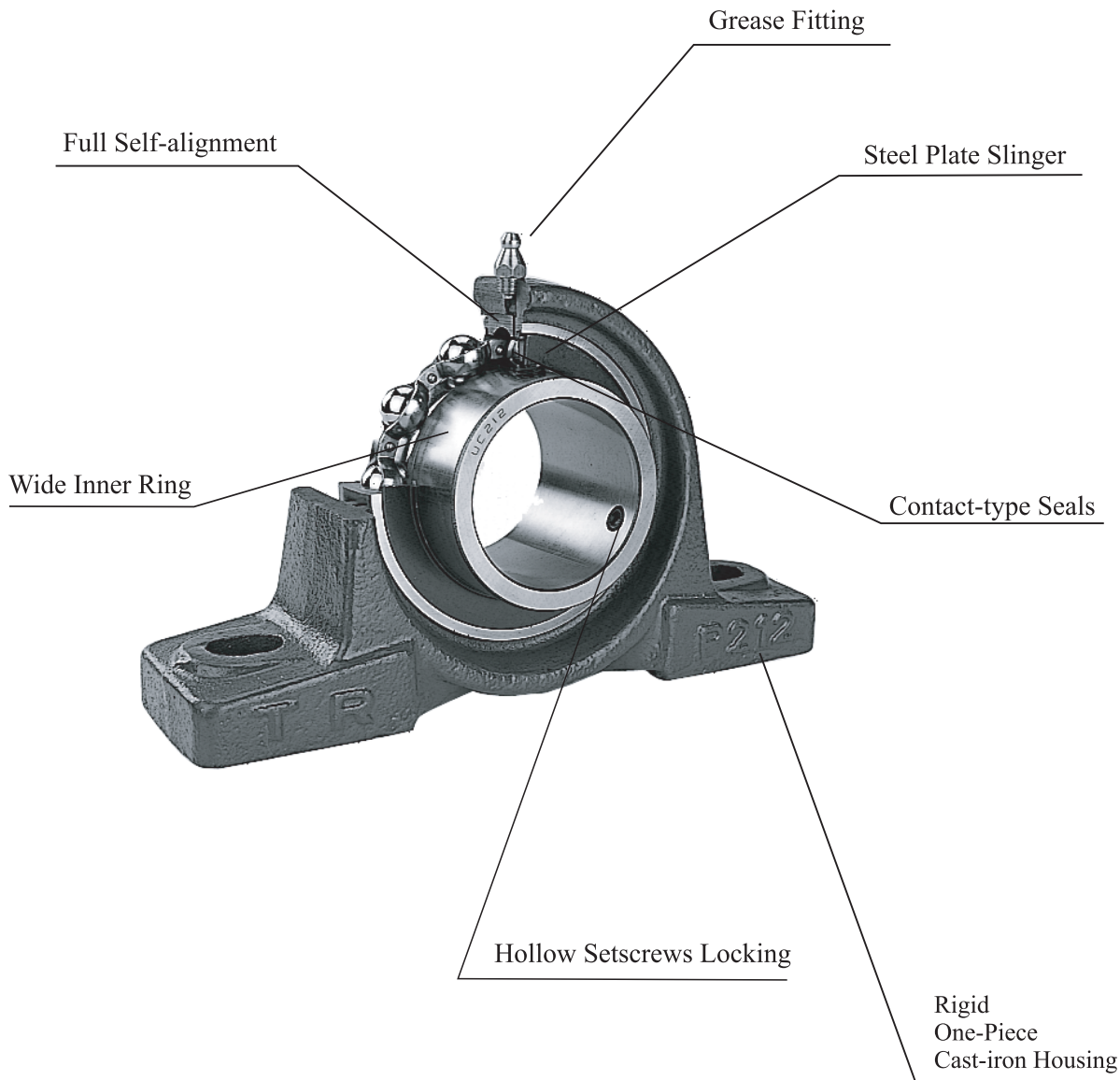
All TR ball bearing units have contact-type seals at both sides. The seals will vary according to the different types of bearings. By selecting the sealing devices, which is most suitable to the application condition, long bearing life can be guaranteed.

### Sealing Devices:

Table 1.






 <p>Single-layer seal</p>	<p>Synthetic rubber is baked to the core piece. It is inserted into the groove of the outer ring and then fitted on the inner ring outer diameter, thus it has low friction, high property in oil resistance and good mechanical stability.</p>
 <p>Single-layer seal</p>	<p>This consists of a pressed steel seal with a vulcanized synthetic rubber sealing lip baked inside. The seal forms a tiny clearance with the outer diameter of the inner ring, thus can provide efficient protection against the dust, sand or other contaminants.</p>
 <p>Dual seals</p>	<p>Oil seal is fixed in the outer ring inner diameter groove, and the slinger is set at the inner ring outer surface. In addition, the simultaneous revolution with inner ring generates the wind pressure for dust-proof property. This constitutes the ideal labyrinth, so effective dust-proof property can be guaranteed.</p>
 <p>F Seal</p>	<p>This type encloses a synthetic rubber washer between two metal caps. Due to the three pieces design with protective outer shroud, the sealing is excellent.</p>
 <p>Triple-lip seal</p>	<p>This type consists of a metal cap and synthetic rubber seal, which are baked together to form a single seal. Seal lips have enough tightening allowance. In addition, the lip layers are of triple construction and outside matters, such as dust, water, etc., are shut out. This sealing system shows its outstanding function under bad conditions.</p>

## 2. Structure of Pillow Blocks



- Cast iron housing ... of one-piece rigid structure and easy for fixing.
- Wide inner ring ... for rigidity and more effective setscrews locking.
- Hollow setscrews ... two hollow setscrews 120° apart on the inner ring ensure easy and firm mounting on a shaft. Inner ring has been treated through special heat treatment.
- Steel plate slinger ... one on each side of the bearing by which dust can be efficiently excluded.
- Contact-type seals ... at both sides of bearing units.
- Grease fitting ... from which grease can be added .



	<p>6. Oval flange units</p> <p>UCFL2, NAFL2, NAFLU2, UKFL2+H, SBFL2G UCFL3, NAFL3, UKFL3+H, UCFLX, SAFL2G</p> <p>This type of housing is useful in saving space and weight. It can be installed by means of two bolts. The set bolt pitch is the same as that of the square flange type.</p>								
	<p>7. LF,LFTC,FD,PFTD and PFTD-G type two-bolt flange units are for use with SB (or SB-G)and SA(or SA-G)type inserts only FCT and FCT-G type three-bolt flange units are for use with SB(or SB-G)and SA(or SA-G)type inserts only</p> <p>SALF2G,SBLF2G,SALFTC2G,SBLFTC2G SAFD2G,SBFD2G SAPFTD2,SBPFTD2,or SAPFTD2G,SBPFTD2G SAFCT2,SBFCT2, or SAFCT2G,SBFCT2G</p> <table border="0"> <tr> <td></td> <td style="text-align: center;">Bolt</td> </tr> <tr> <td style="text-align: center;">LF,LFTC,FD</td> <td>Material: Grey iron      Configuration: Round Hole</td> </tr> <tr> <td style="text-align: center;">PFTD,PFTD-G</td> <td>Ductile iron      Square Hole</td> </tr> <tr> <td style="text-align: center;">FCT,FCT-G</td> <td>Ductile iron      Square Hole</td> </tr> </table>		Bolt	LF,LFTC,FD	Material: Grey iron      Configuration: Round Hole	PFTD,PFTD-G	Ductile iron      Square Hole	FCT,FCT-G	Ductile iron      Square Hole
	Bolt								
LF,LFTC,FD	Material: Grey iron      Configuration: Round Hole								
PFTD,PFTD-G	Ductile iron      Square Hole								
FCT,FCT-G	Ductile iron      Square Hole								
	<p>8. Flange bracket units</p> <p style="text-align: right;">UCFB2</p> <p>This type has three set <b>holes on only one side</b> of the flange. This type of bearing unit is used where the mounting space is limited, and the housing can be fixed on only one side.</p>								
	<p>9. Adjustable flange units</p> <p style="text-align: right;">UCFA2</p> <p>This type has a two-bolt base with one side adjustable, enabling distance from center of shaft to be varied.</p>								
	<p>10. Take up units</p> <p style="text-align: right;">UCT2, NAT2 UCST2</p> <p>This type is applied to the machines in which the center of main shaft needs free alignment.</p>								

	<p>11.Pressed housing pillow blocks</p> <p style="text-align: right;">SAPP2, SBPP2</p> <p>Pressed housings are with light weight and simple structure and consists of two pieces of pressed steel plates. This type is applied to the machine whose rotating speed is lower or medium, or the machine with light load. The inserts for the pressed housings are usually SA or SB series.</p>
	<p>12.Pressed housing round flange units</p> <p style="text-align: right;">SAPF2, SBPF2</p> <p>This type consists of two pieces of pressed steel plates, mounted with SA2 or SB2. It has light weight and simple structure, which is applied to the machine of which the rotating speed is low or medium, or the machine load is light .</p>
	<p>13.Pressed housing flange units</p> <p style="text-align: right;">SAPFT2, SBPFT2</p> <p>This type has the same function as the pressed round flange housing. It can be used where the mounting space is limited, because it takes smaller space.</p>
	<p>14.Pressed housing oval flange units</p> <p style="text-align: right;">SAPFL2, SBPFL2</p> <p>This type has only two bolt holes. It needs much smaller mounting space. Its function is the same as the above-mentioned pressed flange housings.</p>
	<p>15.Disk harrow units</p> <p style="text-align: right;">ST491A,ST491B,ST209-1 1/8 DHU55R-211,DUH40S-211 ST211-1 3/4 ST211-2 3/16</p> <p>Two pieces of pressed steel plates are riveted to form the housing fitted with "o"form rubber seals. It has four mounting bolt holes with tripple-lip seals inside. It can be relubricated through the grease nipple.</p>

#### 4. Ball Bearing Inserts

The spherical outside ball bearing inserts are sealed at both sides. The internal structure dimensions, chromium bearing steel balls and retainers are same as those of the deep groove ball bearings.

##### 4.1 Material of Bearing Rings and Balls.

The bearing rings and balls are made of GC<sub>r</sub>15 chromium bearing steel of which the chemical composition are shown in table 2.

Table 2. (%)

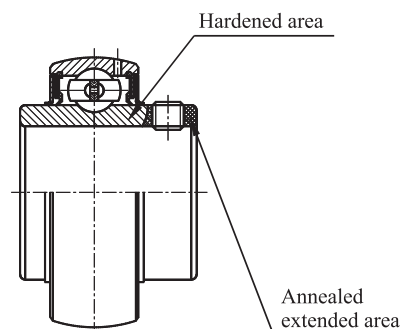
C	Cr	Si	Mn	S	P
0.95-1.05	1.30-1.65	0.15-0.35	0.20-0.40	≤0.020	≤0.027

The rockwell hardness for bearing rings are HRC59-63, for balls are HRC62-66, with high wear resistance and contact fatigue strength. For the inner ring of the setscrews type bearings, the hardness of the setscrews hole zone on the extended ends are less than HRC50 after inner ring special zone heat treatment (UC, RB, SB, CSB, ER, SER series).

The inner rings of setscrews type bearings are special heat treated by the induction heating method. Therefore, the raceway of the inner ring is hardened completely through the ring, while the setscrews hole zone on the extended ends of the inner rings are softened ( as indicated in drawing ).

The bearings have two hardened setscrews with threads which are installed in the soft extension of the inner ring ,thread contact is thereby attained for maximum holding power, since they can be sufficiently tightened without causing inner ring cracking.

This special heat treatment ensures the most efficient bearing performance and prevents the setscrews from loosening during operation.



## 4.2 Bearings Tolerances

### 4.2.1 Outer Rings Tolerances

The outer rings tolerances, which are shown in Table 3 , are the same as those for deep groove bearings.

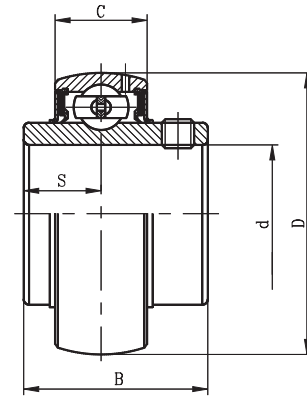
Table 3. Outer rings tolerances (μm)

D (mm)		ΔDmp		Kea
over	incl.	high	low	max.
30	50	0	-11	20
50	80	0	-13	25
80	120	0	-15	35
120	150	0	-18	40
150	180	0	-25	45
180	250	0	-30	50

Notes: (1) Δ Dmp = the deviation of a single plane mean outside diameter of the outer ring.

(2) Kea = Radial runout of assembled bearing outer ring.

(3) D = Nominal outer ring outside diameter.



### 4.2.2 Inner Rings Tolerances

The inner rings tolerances are different from those of deep groove bearings. The values are shown in Table 4 and Table 5.

1) Tolerances for cylindrical bore bearing inner rings

Table 4. Cylindrical bore inner rings tolerances (μ m)

d (mm)		Δ dmp		Kia	Δ Bs	
over	incl.	high	low	max.	high	low
10	18	+15	0	12	0	-120
18	30	+18	0	15	0	-120
30	50	+21	0	18	0	-120
50	80	+24	0	22	0	-150
80	120	+28	0	28	0	-200
120	180	+33	0	35	0	-250

Notes: (1) d = Nominal bore diameter

(2) Δ dmp =The deviation of a single plane mean bore diameter of the inner rings

(3) Kia = Radial runout of assembled bearing inner ring

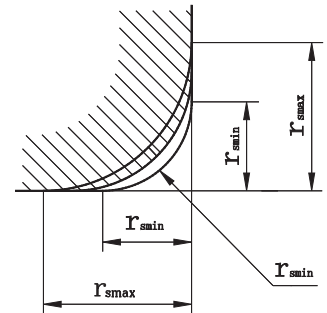
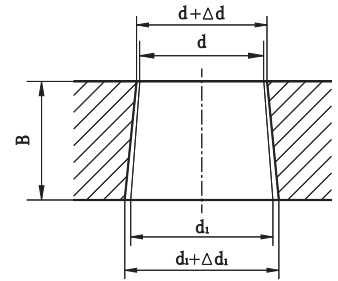
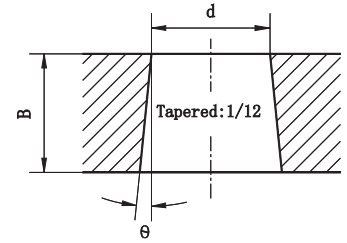
(4) Δ Bs= The deviation of a single width of inner ring



## 2) Tapered Bore Inner Rings Tolerances

Table 5. Tolerances on inner rings of tapered bore bearings ( $\mu\text{m}$ )

d (mm)		$\Delta\text{dmp}$		$\Delta\text{d}_{1\text{mp}} - \Delta\text{dmp}$	
over	incl.	high	low	max.	min.
18	30	+33	0	+21	0
30	50	+39	0	+25	0
50	80	+46	0	+30	0
80	120	+54	0	+35	0



Notes: (1)  $d$  = Nominal bore diameter

(2)  $d_1$  = Theoretical diameter of larger end of tapered bore

$d_1$  is obtained by following formula:

$$d_1 = d + 0.083333 B$$

(3)  $B$  = Nominal inner ring width

(4)  $\theta$  = The nominal taper angle =  $2^\circ 23' 9.4'' = 2.38594^\circ$

(5)  $\Delta\text{d}_{\text{mp}}$  = Single plane mean bore diameter deviation

in theoretical diameter of smaller end of bore

(6)  $\Delta\text{d}_{1\text{mp}}$  = Single plane mean bore diameter deviation in

theoretical diameter of larger end of bore

### 4.2.3 Chamfer Dimensions for Inner Ring

Table 6. Chamfer dimension limits (mm)

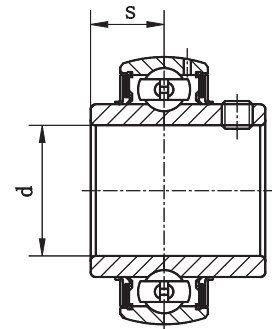
Nominal chamfer dimension $r(\text{min.})$	Radial direction	Axial direction	Chamfer Radius of Shaft $r_a(\text{max.})$
	max.	max.	
1	1.5	3	$\leq 1$
1.5	2.3	4	$\leq 1.5$
2	3	4.5	$\leq 2$
2.5	3.8	6	$\leq 2$
3	5	8	$\leq 2.5$

### 4.2.4 Tolerances for Distance "S" From Center Line of Outer Ring to Side of Inner Ring

Tolerances for distance "S" between the radial plane passing through center of spherical surface of outer ring and a side of inner ring are shown in table 7.

Table 7. ( $\mu\text{m}$ )

Nominal bore diameter d (mm)		Deviation $\Delta S$
over	incl.	
--	50	$\pm 200$
50	80	$\pm 250$
80	120	$\pm 300$



### 4.3 Radial Internal Clearance of Bearings

The radial internal clearance for the spherical outside surface ball bearings is usually greater than that of the same sizes of deep groove ball bearings. The clearance for the cylindrical bore bearings is shown in Table 8. (The clearance for the taper bore bearings is shown in Table 9.)

Table 8. Radial internal clearance of cylindrical bore bearings (μm)

Nominal bore diameter d (mm)		Clearance (with setscrews or eccentric locking collars)					
		Group 2		Basic group		Group 3	
>	≤	min.	max.	min.	max.	min.	max.
10	18	3	18	10	25	18	33
18	24	5	20	12	28	20	36
24	30	5	20	12	28	23	41
30	40	6	20	13	33	28	46
40	50	6	23	14	36	30	51
50	65	8	28	18	43	38	61
65	80	10	30	20	51	46	71
80	100	12	36	24	58	53	84
100	120	15	41	28	66	61	97
120	140	18	48	33	81	71	114

Table 9. Radial internal clearance of tapered bore bearings (μm)

Nominal bore diameter d (mm)		Clearance with tapered bore (UK200, UK300)					
		Group 2		Basic group		Group 3	
>	≤	min.	max.	min.	max.	min.	max.
10	18	10	25	18	33	25	45
18	24	12	28	20	36	28	48
24	30	12	28	23	41	30	53
30	40	13	33	28	46	40	64
40	50	14	36	30	51	45	73
50	65	18	43	38	61	55	90
65	80	20	51	46	71	65	105
80	100	24	58	53	84	75	120
100	120	28	66	61	97	90	140
120	140	33	81	71	114	105	160

Notes: When the internal clearance of a bearing is measured, deformation occurs under loading. Therefore, to obtain the measuring value clearance, add the below correction clearance to the radial clearance above.

Table 10.

Bore dia. d (mm)		Measuring load (N)	Radial clearance correction amount (μm)		
>	≤		C <sub>2</sub>	Normal	C <sub>3</sub>
10	18	25	4	4	5
18	30	50	5	5	6
30	50	50	4	4	5
50	80	100	6	7	7
80	100	150	8	8	9

## 5. Bearing Housings

### 5.1 Material for Cast Iron Housings

The material for cast iron housings is HT200 (grey casting iron) of which the mechanical properties are shown in Table 11.

Table 11.

No.	Major wall thickness of casting piece (mm)	Strain minimum stress $\sigma_b$ min (N/mm <sup>2</sup> )	Hardness (HB)
HT200	>2.5~10	220	157~236
	>10~20	195	150~225
	>20~30	170	139~209
	>30~50	160	129~192

### 5.2 Tolerances for Housings

#### 5.2.1 The fits between inserts and the housings

Under normal conditions, the fit between insert and housing, which can be supplied by us, is listed as follows:

Table 12.

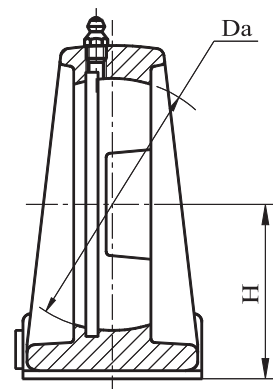
Housings No.	201-209 305-309 X05-X09	210-220 310-328 X10-X20
The fits between inserts and the housings	Clearance fit	Interference fit

For other requirements for the fits, the customers are required to mention them on their orders.

#### 5.2.2 Tolerances for Pillow Block Housings Center Height

Table 13. (mm)

Housings No. P,PK,LP,PH,PA,PA2A,PG,	Deviations $\Delta H$
P203-210, P305-310 PK203-210, PX05-X09 PA203-210, LP201-208 PG204-208, PA204A-210A PH203-210	$\pm 0.15$
P211-218, PX10-X18 PK211-213, P311-319 PH211-215, PA211-213	$\pm 0.20$
PX20, P320-328	$\pm 0.30$



5.2.3 Tolerances for Flange Type Housings are shown in Table 14.

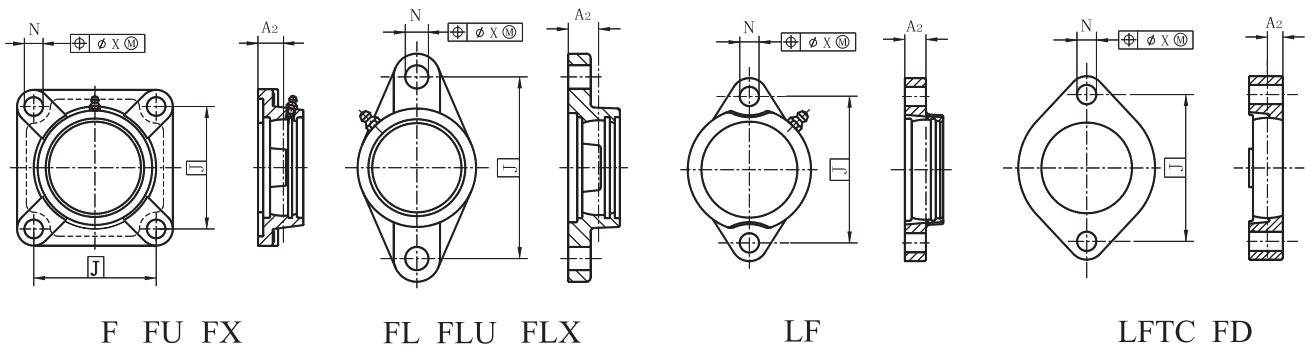


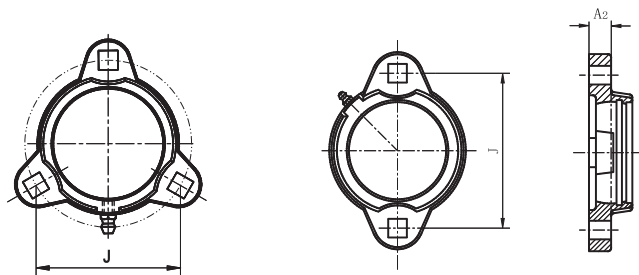
Table 14.

(mm)

Housing No.							Deviations $\Delta A_2$		Tolerances of position for mounting bolt holes
F, FU	F, FL	FL, FLU	FX, FLX	LF	LFTC	FD	high	low	$X \leq$
--	--	--	--	203	--	--			
204	--	204	--	204	20	204			
205	305	205	X05	205	25	205	+0.5	-0.5	0.6
206	306	206	X06	206	30	206			
207	307	207	X07	207	35	207			
208	308	208	X08	--	40	--	+0.5	-0.5	0.8
209	309	209	X09		--				
210	310	210	X10						
211	311	211	X11						
212	312	212	X12						
213	313	213	X13						
214	314	214	X14						
215	315	215	X15						
216	316	216	X16						
217	317	217	X17				+0.8	-0.8	1.0
218	318	218	X18						
--	319	--	--						
	320		X20						
	322								
	324								
	326								
	328								

PFTD, FCT

\*Re-lub. Type PFTD, FCT Housings Available too.



(mm)

PFTD (Ductile iron) FCT (Ductile iron)	203-206	$+0.50 \geq \Delta A_2 \geq -0.50$	$+0.7 \geq \Delta J \geq -0.7$
	207	$+0.50 \geq \Delta A_2 \geq -0.50$	$+0.8 \geq \Delta J \geq -0.8$

Tolerances for flange cartridge type housings are shown in Table 15.

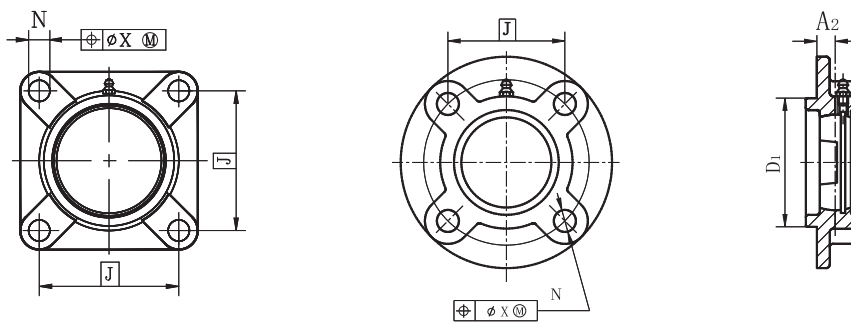
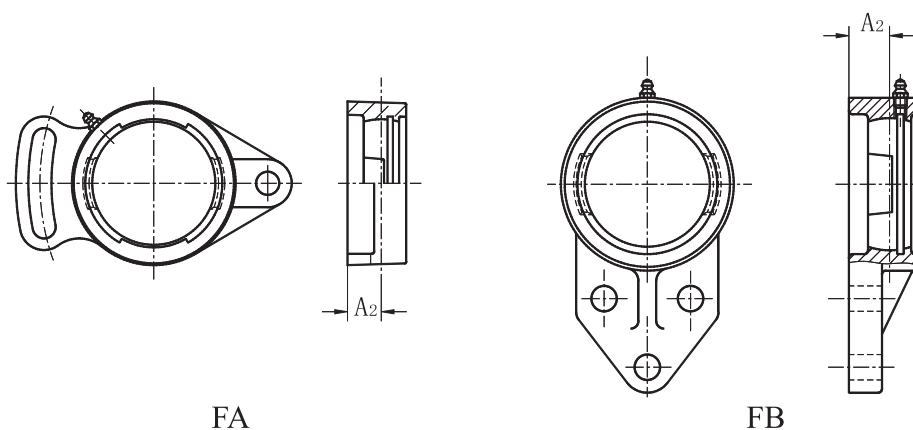


Table 15.

(mm)

Housings No.	Deviation $\Delta A_2$		Deviation $\Delta D_1$		Radial runout of spigot joint	Tolerance of position for mounting bolt holes X
	high	low	high	low	max	max
FC204-FC206 FS305	+0.50	-0.50	0	-0.046	0.2	0.60
FC207-FC210 FS306-FS308			0	-0.054		0.80
FC211-FC217 FS309-FS313	+0.80	-0.80	0	-0.063	0.3	1.0
FC218 FS314-FS318			0	-0.072		
FS319			0	-0.081		
FS320-FS322 FS324-FS328					0	

Tolerances for special type flange units are shown in Table 16.



FA

FB

Table 16.

(mm)

Housings No.		Deviation $\Delta A_2$	
		high	low
FA203-FA210	FB203-FB210	+0.50	-0.50
FA211-FA213	FB211-FB213	+0.80	-0.80

### 5.2.4 Tolerances for Cartridge Type Housings

Tolerances for Cartridge type housings are shown in Table 17.

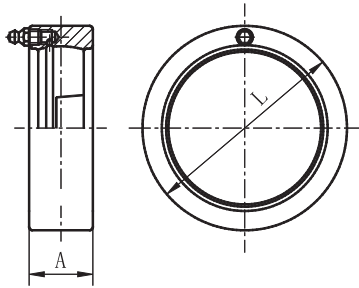


Table 17.

( $\mu$  m)

Housing No.	Deviation of outside diameter $\Delta L$				Radial runout of spigot joint	Deviation $\Delta A$	
	C 2 series ( $H_5$ )		C 3 series ( $H_6$ )				
	high	low	high	Low	max.		
C203-C205	0	-30	--	--	200	+200	-200
C206-C210 C305-C308	0	-35	0	-35	200	+200	-200
C211-C213	0	-40	--	--	300	+250	-250
C309-C310	--	--	0	-40	200	+200	-200
C311-C314	--	--	0	-40	300	+250	-250
C315-C316	--	--	0	-46	300	+250	-250

### 5.2.5 Tolerances for Take-up Type Housings

Tolerances for Take-up type housings are shown in Table 18.

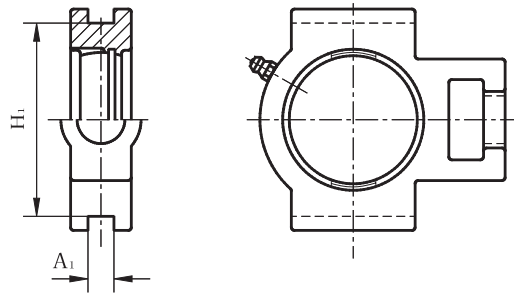


Table 18.

(mm)

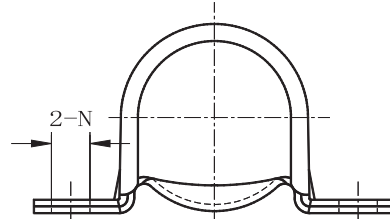
Housings No.	Deviations $\Delta A_1$		Deviations $\Delta H_1$		Parallelism of sliding slot
	high	low	high	low	
T203-T210	+0.2	0	0	-0.5	0.5
T211-T217	+0.3	0	0	-0.8	0.6
ST204-210	+0.5	-0.25	+0.25	-0.25	0.5
ST211-212	+1.0	-0.25	+0.25	-0.25	0.6

### 5.3. Pressed Housings.

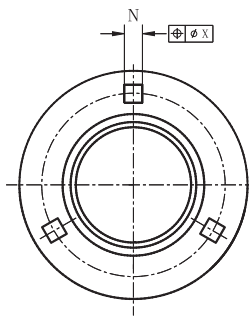
#### 5.3.1. Tolerances for Pressed Pillow Type Housings.

Table 19. (mm)

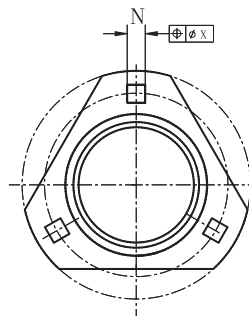
Housings No.	Deviation of mounting bolt hole diameter $\Delta N$	
	high	low
PP203 PP204 PP205 PP206 PP207	+0.25	-0.25



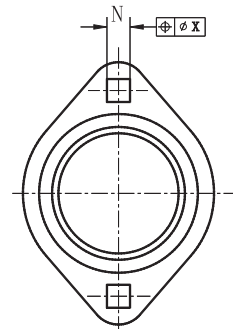
#### 5.3.2. Tolerances for Pressed Round and Oval Flange Type Housings.



PF



PFT



PFL

Table 20. (mm)

Housings No.	Deviation of length of square for mounting bolt hole $\Delta N$		Tolerances of position for mounting bolt holes X
	high	low	
PF203 PFL203 PFT203 PF204 PFL204 PFT204 PF205 PFL205 PFT205 PF206 PFL206 PFT206 PF207 PFL207 PFT207 PF208 PFL208 PFT208	+0.25	-0.25	0.4

## 6. Selection of Ball Bearing Units

The bearing size is usually selected according to the required bearing life and reliability under a specified type of load charged on the bearing.

The load applied to the bearing operating under a static or slow oscillating and rotating ( $n \leq 10 \text{ r/min}$ ) condition is defined as static load, while the load applied to the bearing operating under a speedy rotating ( $n > 10 \text{ r/min}$ ) condition is defined as dynamic load.

The load capacity of the bearing is expressed by the basic dynamic load rating and basic static load rating which is shown in the bearing table. (Please refer to page C-1~C-19.)

Ball bearing units are used widely. Under normal operating conditions, the period of time until grease deterioration and rolling fatigue occurs may be roughly estimated, and are respectively called the grease life and rolling fatigue life.

Under normal mounting, lubricating and maintaining conditions, the operating bearings will have fatigue flaking due to the repeating action of variable load charged on the contact area between the rings and rolling elements. Generally, the fatigue flaking is the cause of normal damage of rolling bearings. Therefore, the usually said bearing life refers to the bearing fatigue life. The life of a group of apparently identical bearings operating under identical conditions is in conformity with a certain statistical regularity as the life of individual bearings show a considerable dispersion. For this reason, the bearing life is closely connected with the damaging probability or the reliability requirement.

### 6.1 Basic Load Rating and Life

**Basic dynamic load rating:** The basic dynamic load rating is defined as the constant load applied to a bearings with stationary outer rings that the inner rings can endure for a rating life of one million revolutions ( $10^6 \text{ rev.}$ ).

**Life:** The life of a rolling bearing is defined as the total number of revolutions which the bearing is capable of enduring before the first evidence of fatigue flaking develops on any one of the rings or rolling elements.



**Reliability :** The reliability is the percentage of the bearing of a group of apparently identical bearings operating under identical conditions which can expect to attain or exceed a certain defined life. The reliability of an individual bearing is the probability of the bearing to attain or exceed a defined life.

**Basic rating life  $L_{10}$  :** For a group of apparently identical rolling bearings operating under identical conditions, the basic rating life is defined as the total number of revolutions that 90% of the bearings can be expected to complete or exceed.

The basic rating life  $L_{10}$  estimation for ball bearings with different speeds and  $\frac{C_r}{P_r}$  ratios is shown in page A-32.

## 6.2 Bearings Selection According to Basic Dynamic Load Rating

### 6.2.1 Basic Rating Life

The fatigue rating of deep groove ball bearings is calculated by following formula:

$$L_{10} = \left( \frac{C}{P} \right)^3$$

$$\text{or } \frac{C}{P} = L_{10}^{1/3}$$

Where  $L_{10}$  = basic rating life ( $10^6$  r )

$C$  = basic dynamic load rating (N)

$P$  = equivalent dynamic bearing load (N)

The basic dynamic load rating  $C$  is a hypothetical constant load with a fixed direction under which the bearing can attain a basic rating life of one million revolutions. For radial bearing, the load refers to the radial load.

The equivalent dynamic bearing load  $P$  is a constant load with a fixed direction under which the bearing life is identical to that of the bearing operating under actual load.

For a bearing operating with a constant rotation speed ,  
the basic rating life can be expressed in terms of operating hours:

$$L_{10h} = \frac{10^6}{60n} \left( \frac{C}{P} \right)^3$$

or

$$L_{10h} = \frac{10^6}{60n} L_{10}$$

$$= \frac{16666}{n} \left( \frac{C}{P} \right)^3$$

Where  $L_{10h}$  = basic rating life (h)

$n$  = bearing operating speed of rotation (r/min)

For easier calculation, 500 hours as base of rating life is taken,  
and the speed factor  $f_n$  and the life factor  $f_h$  is introduced :

$$f_n = \left( \frac{33\frac{1}{3}}{n} \right)^{1/3}$$

$$f_h = \left( \frac{L_{10h}}{500} \right)^{1/3}$$

In this way, the formula is simplified to

$$C = \frac{f_h}{f_n} P$$

The values of  $f_n$  and  $f_h$  can be found in  
Fig.1 by referring to the operation speed  $n$   
and the anticipated bearing service life  $L_{10h}$ .  
Then, with the radial load (or the equivalent  
dynamic bearing load ), the basic dynamic  
load rating can be determined. By this way,  
the bearing size can be determined according  
to the basic dynamic load rating value in the bearings Table.(Please refer to page C-1 ~ C-19)

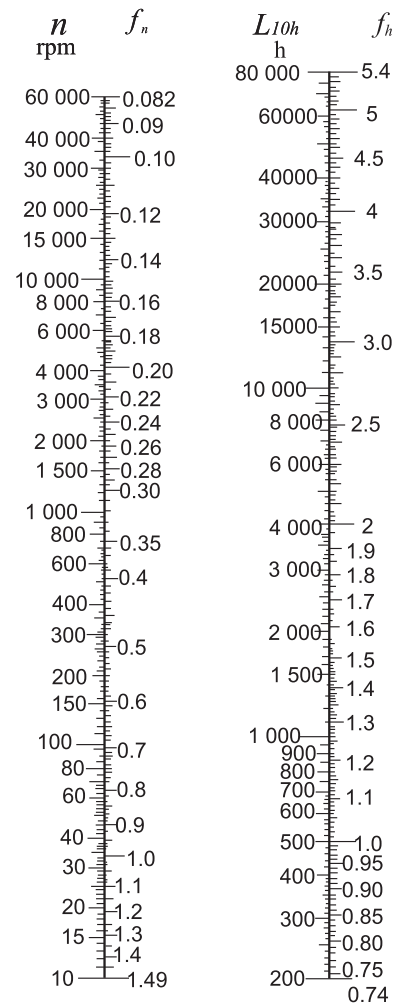


Fig.1

If the bearing operates under indeterminate loads and rotation speed, the following formula should be applied when calculating the bearing life:

$$P_m = \sqrt[3]{\frac{1}{N} \int_0^N P^3 dN}$$

Where  $P_m$  = mean equivalent dynamic bearing load (N)

$P$  = equivalent dynamic bearing load (N)

$N$  = total revolution numbers within one load changing cycle ( r )

### 6.2.2 Anticipated Bearing Service Life

When selecting a bearing, one should usually predetermine an appropriate service life according to the relevant machine type, operating conditions and reliability requirement. Generally speaking, the anticipated bearing service life can be determined by referring to the maintenance period of a machine.

### 6.2.3 Calculation Method of Equivalent Dynamic Bearing Load P

The basic equivalent dynamic bearing load is determined under a hypothetical condition. When calculating the bearing life, the actual load has to be converted into equivalent dynamic bearing load which is in conformity with the load condition determining the equivalent dynamic load rating.

General equation for calculating the equivalent dynamic bearing load:

$$P = X F_r + Y F_a$$

Where:  $P$  = equivalent dynamic bearing load (N)

$F_r$  = actual radial load (N)

$F_a$  = actual axial load (N)

$X$  = radial factor

$Y$  = thrust factor

The values of X and Y are determined by the ratio between the applied axial load  $F_a$  and the basic static load rating  $C_0$ . The axial load which the spherical outside surface bearings can carry is determined by the mounting method of the bearings on the shafts.

For the setscrews locking type or eccentric locking collar type bearings, if flexible shafts are applied and the setscrews are tightened enough (See Table 34 for reference torque), the axial load  $F_a$  which the bearing can carry must not surpass 20% of the radial load  $F_r$ .

For the adapter sleeve locking type bearing, if the nuts are properly tightened, the axial load  $F_a$  can be maximum 15% to 20% of the radial load.

The values of radial and thrust factors X and Y for spherical outside surface ball bearings can be obtained from the following table:

Table 21.

$\frac{F_a}{C_0}$	$\frac{F_a}{F_r} \leq e$ $p = F_r$		Clearance for group 2			Clearance for normal group			Clearance for group 3		
			$\frac{F_a}{F_r} > e$		e	$\frac{F_a}{F_r} > e$		e	$\frac{F_a}{F_r} > e$		e
	X	Y	X	Y		X	Y		X	Y	
0.025	1	0	0.56	2.0	0.22	0.46	1.75	0.31	0.44	1.42	0.4
0.04	1	0	0.56	1.8	0.24	0.46	1.62	0.33	0.44	1.36	0.42
0.07	1	0	0.56	1.6	0.27	0.46	1.46	0.36	0.44	1.27	0.44
0.13	1	0	0.56	1.4	0.31	0.46	1.30	0.41	0.44	1.16	0.48
0.25	1	0	0.56	1.2	0.37	0.46	1.14	0.46	0.44	1.05	0.53
0.5	1	0	0.56	1	0.44	0.46	1	0.54	0.44	1	0.56

When twist load is applied to the bearings, the equivalent dynamic bearing load is calculated by:

$$P_m = f_m \cdot P$$

Where  $P_m$  = equivalent dynamic bearing load when considering twist load

$f_m$  = twist load factor, which is defined as follows:

when the twist load is small:  $f_m = 1.5$

when the twist load is big:  $f_m = 2$

When shocking load is applied to the bearings, the equivalent dynamic bearing load can be calculated by the following equation:

$$P_d = f_d \cdot P$$

Where  $P_d$  = equivalent dynamic bearing load when considering shocking load

$f_d$  = shocking load factor, which is defined as follows:

When no shocking load or minor shocking load is applied:

$$f_d = 1 \sim 1.2$$

When adequate shocking load is applied:

$$f_d = 1.2 \sim 1.8$$

### 6.3 Example of bearing size selection

One ball bearing is to operate at a rotation speed of 1000 r/min under only a radial load of  $F_r = 3000$  N, with a basic rating life of at least 20000 hours, select the bearing size.

From the required rotation speed, it can be found that:

$$f_n = 0.322 \text{ ( Fig 1. shows about 0.32 )}$$

From the required basic rating life (anticipated service life), at least 20000 hours, it can be found that:

$$f_h = 3.42 \text{ ( Fig 1. shows about 3.4 )}$$

Under only a radial load, i.e.,

$$P = F_r = 3000 \text{ (N)}$$

Therefore,

$$C = \frac{f_h}{f_n} P = \frac{3.42}{0.322} \times 3000 = 31863 \text{ (N)}$$

A simplified way to calculate the bearing life can be applied by using Fig 2.

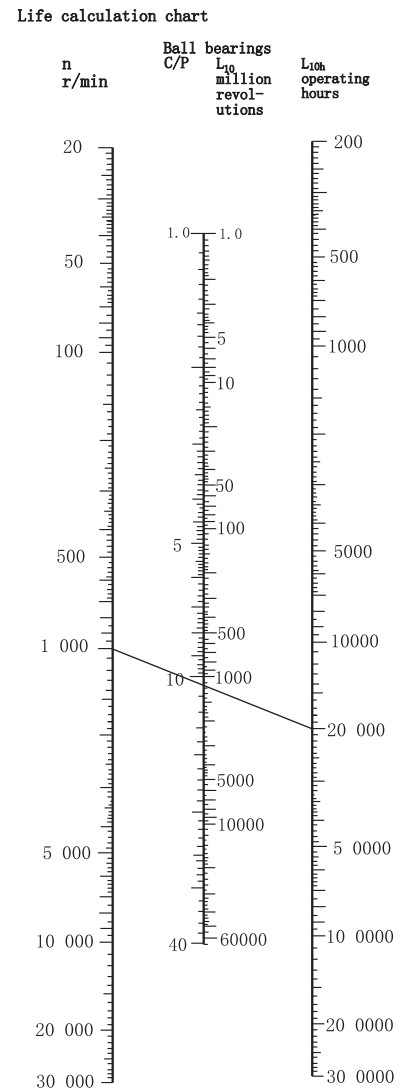


Fig.2

By connecting  $n(1000\text{r/min})$  and the required basic rating life  $L_{10n}$  (20000 hours) with a straight line, it can be found that  $C/P$  value is 10.6. As is known,  $P = F_r = 3000 \text{ N}$ , thus the required basic dynamic load rating is:

$$\begin{aligned} \frac{C}{P} &= 10.6 \\ C &= 10.6P \\ &= 10.6 \times 3000 = 31800 \text{ (N)} \end{aligned}$$

In this way, we can select the bearing from the bearing table. (Please refer to page C-1 ~ C-19.)

#### 6.4 Adjusted Rating Life Equation

The basic rating life  $L_{10}$  calculated with the bearing life calculation formula can be applied to calculate the rating life of bearings made of ordinary bearings steel ( i.e., bearing life with reliability of 90%.)

Due to more and more of machinery products demanding higher reliability and better quality steel, GB/T6391-1995 (equalling to ISO281:1990) suggested an adjusted rating life calculation equation, i.e.,

$$L_{na} = a_1 \cdot a_2 \cdot a_3 \cdot L_{10}$$

For the deep groove ball bearings:

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

Where  $L_{na}$  = under specified material and lubricating conditions, bearing life with  $(100-n)\%$  no breaking probability (i.e. reliability)

$a_1$  = life adjustment factor for reliability (Table 22.)

$a_2$  = life adjustment factor for materials (Table 23.)

$a_3$  = life adjustment factor for operating conditions (Table 24.)

Table 22. Life adjustment factors for reliability  $a_1$

Reliability %	90	95	96	97	98	99
$L_n$	$L_{10}$	$L_5$	$L_{4i}$	$L_{3i}$	$L_{2i}$	$L_1$
$a_1$	1	0.62	0.53	0.44	0.33	0.21

Table 23. Life adjustment factors for materials  $a_2$

Normal chromium bearing steel	$a_2=1$
Special smelted bearing steel-vacuum degassed bearing steel ( $a_2 < 1$ )	$a_2 > 1$
When material hardness lowered by high frequency tempering	$a_2 < 1$

Table 24. Life adjustment factors for operating conditions  $a_3$

When under normal operating conditions, i.e.: Properly mounted; sufficiently lubricated; Without outside matters intrusion.	$a_3 = 1$
When under operating temperature, the ball bearing lubricating grease viscosity is lower than $13 \text{ mm}^2/\text{s}$ . The bearing operating under lower speed $D_{pw} \cdot n < 10000$ ( $\text{mm} \cdot \text{r}/\text{min}$ ). $D_{pw}$ = pitch circle diameter of rolling elements.	$a_3 < 1$

## 7. Lubrication and Operating Temperature

### 7.1 Lubricants

The industry lithium based No.2 lubricating grease defined in GB7324 "Lithium based lubricant grease" is sealed in the spherical outside surface ball bearings during manufacturing. Its physical and chemical properties are shown in table 25.

Table 25.

Density (1/10mm)	Without operation	265~295
Dropping point ( °C )		≥ 175
Mechanical impurities (pc/cm <sup>3</sup> )	10-25 μ m 25-75 μ m 75~125 μ m above 125 μ m	Within 5000 Within 3000 Within 500 0

### 7.2 Operating Temperature.

The bearings usually operate below the temperature of 120°C (the measuring temperature of the outer ring is 100°C ). Grease life reduction has to be taken into account when the bearings continue to operate at a temperature above 70°C . The lowest operating temperature should not be lower than -20°C .

For higher or lower temperature application, please consult us for further information.

### 7.3 Relubricate Period

Under normal operating condition, the grease should conform to the life of the bearings. Relubricatable type bearing units must be periodically greased to assure long life.

The greasing interval is dependent on the bearing running speed, operating temperatures and ambient conditions.

The following table shows the standard relubrication period.

Table 26.

dn Value	Cleanliness	Temperature		Greasing interval
		°C	°F	
40,000 and below	Clean	-15~65 Up to 65~100	+5~150 Up to 150~210	6 to 12 month 2 to 6 month
Up to 40,000 ~70,000 and below	Clean	-15~65 Up to 65~100	+5~150 Up to 150~210	2 to 6 month 1 month
Any dn value	Dirty	Up to 65 Over 65	Up to 150 Over 150	1 wk.to 1 month 1 day to 2 wk.
Any dn value	Very Dirty	Any temp	Any temp	1 day to 1 wk.
Any dn value	Exposed to water splashes	Any temp	Any temp	Every day



### 7.4 Grease Fittings

The grease nipples supplied by TR bearing units are classified as A type(straight), B type(type 45° ) and C type (type 90° ) made of brass or steel. Grease nipple types for TR standard bearing units are given in table 27. The availability of the grease nipple dimensions and designation to each type is M6x1,M8x1,1/4-28UNF, 1/8-27NPT and G1/8, as given in table 28. If any, the customers are required to order with the specified dimensions and designations.

Table 27. Grease nipple types for TR standard bearing units

Housings No.	Grease fitting type and dimension
203~210 305~307 X05~X09	A Type, M6×1
211~220 308~328 X10~X20	A Type, M8×1

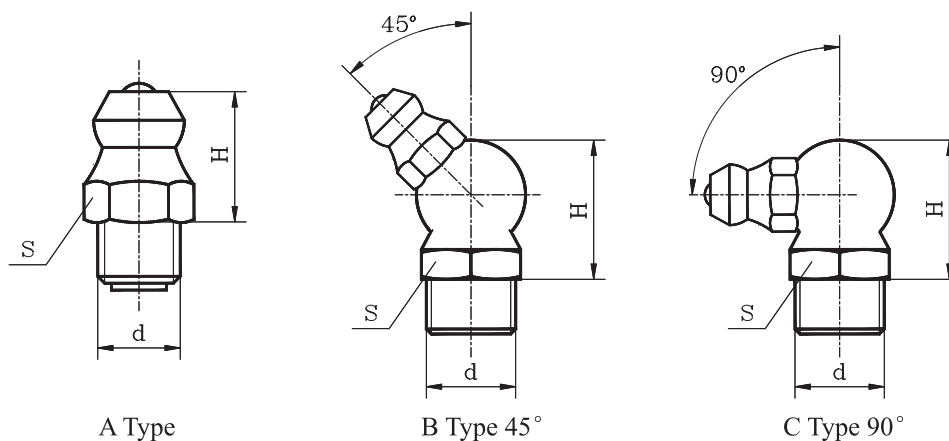


Table 28. Grease nipple dimensions and designations of applicable bearing units

Grease fitting Type	d	H(mm)	S(mm)
A type	M6×1	8.5	7
	M8×1	10.5	10
	1/4-28UNF	8.5	7
	1/8-27NPT	9.5	11
	G1/8	10.5	11
B Type 45°	M6×1	15	10
	M8×1	15	10
	1/4-28UNF	15	10
	1/8-27NPT	15	10
C Type 90°	M6×1	15	10
	M8×1	15	10
	1/4-28UNF	15	10
	1/8-27NPT	14.5	10

### 8. Limiting Speed

The limiting speed of the ball bearing units are mainly determined by the fit between the bearings and the shafts. Under normal conditions, the fit for the setscrews type and eccentric locking collar type bearing unit is h7. h8 or h9 fit is applied when with light load and slow speed, while tighter fit j7 is applied when with heavy load and high speed. The shaft applied to the adapter sleeve bearing is h9 class, with IT5 class tolerances.

The speed ratings for ball bearing of series CS2(00)-2RS are the same as deep groove ball bearings which are shown in Table 29.

The limiting speeds for the ball bearing units with different fits are shown in Table 29.

Table 29. Limiting Speed (r/min)

d (mm)	200 Series				300 Series				CS200-2RS
	Shaft Tolerances				Shaft Tolerances				
	j7(h9/IT5)	h7	h8	h9	j7(h9/IT5)	h7	h8	h9	
12	6700	5300	3800	1400	--	--	--	--	--
15	6700	5300	3800	1400	--	--	--	--	11000
17	6700	5300	3800	1400	--	--	--	--	10000
20	6000	4800	3400	1200	--	--	--	--	9000
25	5600	4000	3000	1000	5000	3600	2600	900	8000
30	4500	3400	2400	850	4300	3000	2200	800	6700
35	4000	3000	2000	750	3800	2800	2000	700	6000
40	3600	2600	1900	670	3400	2400	1700	630	5600
45	3200	2400	1700	600	3000	2200	1500	560	5000
50	3000	2200	1600	560	2600	2000	1400	500	4800
55	2600	2000	1400	500	2400	1800	1300	450	--
60	2400	1800	1200	450	2200	1700	1100	430	--
65	2200	1700	1100	430	2000	1500	1100	400	--
70	2200	1600	1100	400	1900	1400	1000	360	--
75	2000	1500	1000	380	1800	1300	900	340	--
80	1900	1400	950	340	1700	1200	850	320	--
85	1800	1300	900	320	1600	1100	800	300	--
90	1700	1200	800	300	1500	1100	750	280	--
95	--	--	--	--	1400	1000	700	260	--
100	--	--	--	--	1300	950	670	240	--
105	--	--	--	--	1200	900	630	220	--
110	--	--	--	--	1200	800	600	200	--
120	--	--	--	--	1100	750	530	190	--
130	--	--	--	--	1000	670	480	180	--
140	--	--	--	--	900	600	430	160	--

Note: The h9/IT5 column fit for adapter sleeve type ball bearing units, and the rest j7 ~ h9 column fit for the setscrews type and eccentric locking collar type ball bearing units.

### 9. Shafts Design

The ball bearing units are provided with two hexagonal setscrews 120° apart on one side of the inner rings. Under normal operating conditions, the inner rings are mounted on shafts by means of a loose fit to ensure convenience of installation. In this case, the dimensional accuracy of the shafts is shown in Table 30.

Table 30. Dimensional accuracy of the shafts to be used in the cylindrical bore bearings (Loose fit) (μm)

Shaft Diameter (mm)		Deviation of tolerance in shaft									
		for lower speed		for medium speed		for rather high speed		for high speed			
		h9		h8		h7		j6		h6	
over	incl.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.
10	18	0	-43	0	-27	0	-18	+8	-3	0	-11
18	30	0	-52	0	-33	0	-21	+9	-4	0	-13
30	50	0	-62	0	-39	0	-25	+11	-5	0	-16
50	80	0	-74	0	-46	0	-30	+12	-7	0	-19
80	120	0	-87	0	-54	0	-35	+13	-9	0	-22

When the ball bearing units are used at a high speed or under heavy load, the inner rings of the ball bearings should be mounted to the shafts by means of a tight fit. As shown in Table 31.

Table 31. Dimensional accuracy of the shafts to be used in the cylindrical bore bearings (Tight fit) (μm)

Shaft Diameter (mm)		Deviation of tolerance in shaft							
		for higher speed		for rather heavy load		for highest speed		for heavy load	
		m6		m7		n6		n7	
over	incl.	max.	min.	max.	min.	max.	min.	max.	min.
10	18	+18	+7	+25	+7	+23	+12	+30	+12
18	30	+21	+8	+29	+8	+28	+15	+36	+15
30	50	+25	+9	+34	+9	+33	+17	+42	+17
50	80	+30	+11	+41	+11	+39	+20	+50	+20
80	120	+35	+13	+48	+13	+45	+23	+58	+23

Some bearings can be installed to the shafts by means of adapter sleeves. In this method, the bearing bore is made of 1:12 taper and the corresponding tapered adapter sleeves are applied. This is a convenient method that can be used as the intermediate bearings of a long shaft. In this case, the dimensional accuracy of shafts is shown in Table 32.

Table 32. Dimensional accuracy of shafts to be used in tapered bore bearings. ( μ m)

Shaft Diameter (mm)		Deviation of tolerance in shaft			
		for short shaft		for long shaft	
		h9		h10	
over	incl.	max.	min.	max.	min.
10	18	0	-43	0	-70
18	30	0	-52	0	-84
30	50	0	-62	0	-100
50	80	0	-74	0	-120
80	120	0	-87	0	-140
120	180	0	-100	0	-160

Most industrial fans operate at high speeds. The inner ring of the ball bearing units should be mounted to the shafts by means of h5 or j5 fit. As shown in table 33.

Table 33. Dimensional accuracy of shafts to fans used in bearing units. ( μ m)

Shaft diameter (mm)		Deviation of tolerance in shaft			
		h5		j5	
		max.	min.	max.	min.
over	incl.				
18	30	0	-9	+5	-4
30	50	0	-11	+6	-5
50	80	0	-13	+6	-7
80	100	0	-15	+6	-9

## 10. Mounting of Bearings on Shafts

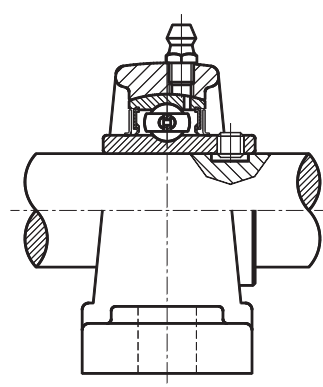
### 10.1 Setscrews Locking Type Bearings

There are two setscrews located at two places on one side of the wide inner ring 120° apart with which the bearings can be mounted to the shafts. When mounting the bearings to the shafts, the torque shown in the table 34 is recommended to tighten the setscrews to shafts.

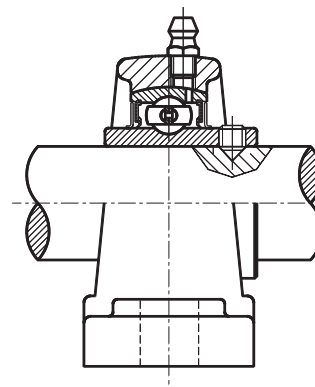
Table 34. Proper tightening torque of setscrews

Bearings No.			Setscrews (mm)	Tightening torque N · m(max)	Setscrews (in.)	Tightening torque lbf · in.(max)
UC201~UC203		SB201~SB203	M5×0.8	3.9	10-32UNF	32
UC204~UC206	UC305~UC306	SB204~SB207	M6×1	4.9	1/4-28UNF	43
UC207~UC209	UC307	SB208~SB211	M8×1	8.0	5/16-24UNF	70.5
UC210~UC212	UC308~UC309	SB212	M10×1.25	16.8	3/8-24UNF	148
UC213			M12×1.25	27.1	3/8-24UNF	148
UC214~UC217	UC310~UC314		M12×1.25	27.1	7/16-20UNF	235
UC218			M12×1.25	29.4	1/2-20UNF	260
	UC315~UC316		M14×1.5	34.3	1/2-20UNF	300
	UC317~UC319		M16×1.5	54.2	5/8-18UNF	478
	UC320~UC324		M18×1.5	58.0	5/8-18UNF	496
	UC326~UC328		M20×1.5	78.0		

In case of either the vibration is caused to the bearing; or 1) the alternating movement takes place, 2) the load applied to the bearings is large, 3) The shafts rotation speed is rapid, it is desired to provide with the filed seat or concave section at the part where the setscrews contact with the shafts. As shown in Fig. 3.



File the shaft surface where the setscrews are positioned



Make a concave section at the shaft surface where the setscrews are positioned

Fig.3

### 10.2 Adapter Sleeves Locking Type Bearings

The inner ring bore of this type of bearings has a taper of 1:12. The sleeves are installed to an arbitrary position. After the shake proof washers are inserted, the correct nuts tightening condition can be obtained if they are tightened enough by hand and then rotated by 2/5 to 3/5 revolution with a spanner.

After tightening the nuts, bend the shake proof washers within the slots. Otherwise, the nuts may loosen and creep may happen between the shaft and sleeves.

It is necessary to ensure that the nuts are not over tightened. As shown in Fig. 4.

### 10.3 Eccentric Locking Collar Type Bearings

The eccentric part of the collars mates with the inner rings of the bearings which is made eccentric with the collars. When locked to the shafts by hand in direction of the shafts rotation, the eccentric locking collars tighten automatically to the shafts by force of working radial loads. Then, lock the setscrews provided on the collar to fix the eccentric collars to the shafts.

### 10.4 Mounting Method of Housings

The desired installation order is: first install the housing, then the shaft and bearing. The bearing units can be easily installed, in principle, at any place. However, in order to have a long service life, it is desired that the mounting base is flat and rigid.

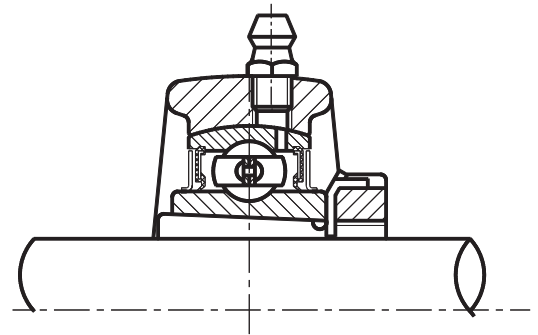


Fig.4.

The pillow block type and flange type housings are desired that the angle between the surface on which the housing is mounted and the shaft be maintained to a tolerance of  $\pm 2^\circ$  (Fig.5).

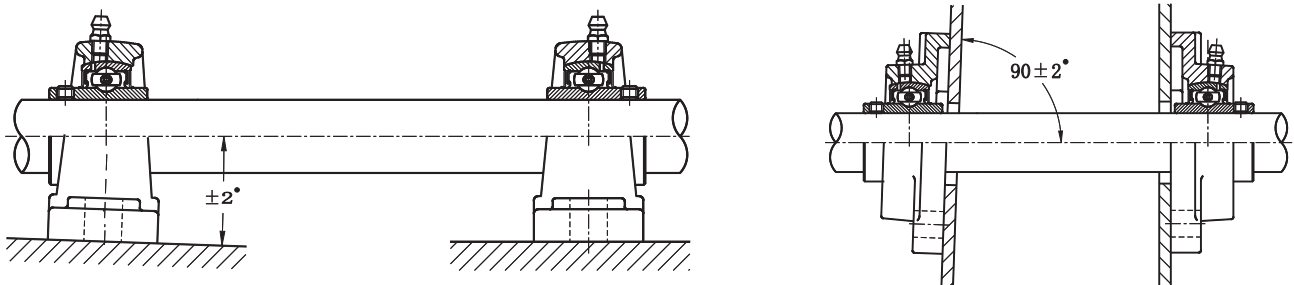


Fig.5.

### 10.5 Mounting Method of Take-up Units

The Take-up units are mounted on two parallel slides, bearing centers to be adjusted by adjustable bolts. The relevant parts dimensions are shown as Fig.6.

Mounting tolerances are shown in Table 35 and Table 36.

Table 35. (mm)

Take-up No.	H' ±0.5	A'	d	D	N
T204	77	11	16	28	12
T205	77	11	16	28	12
T206	90	11	18	32	12
T207	90	11	18	32	12
T208	103	15	24	42	14
T209	103	15	24	42	14
T210	103	15	24	42	14
T211	131	20	30	56	20
T212	131	20	30	56	26
T213	152	24	36	60	26
T214	152	24	36	60	26
T215	152	24	36	60	26
T216	167	24	36	60	26
T217	175	28	42	65	30

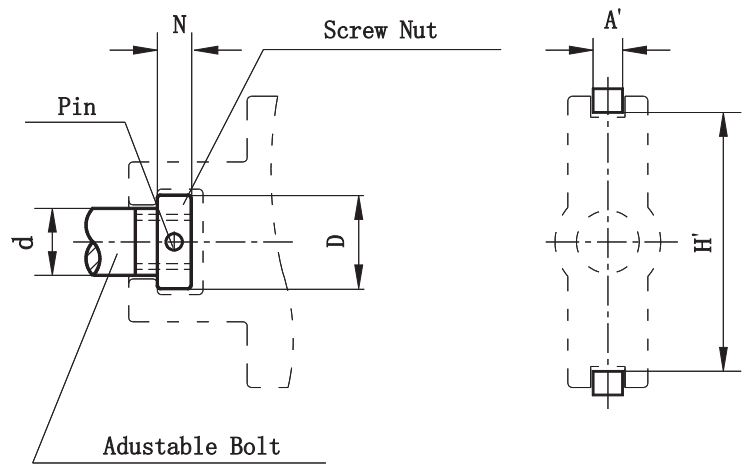


Fig.6

Table 36. (mm)

Take-up No.	H' ±0.5	A'	d	D	N
ST204	77	12.5	16	28	12
ST205	77	12.5	16	28	12
ST206	90	12.5	18	32	12
ST207	90	12.5	18	32	12
ST208	103	16.5	24	42	14
ST209	103	16.5	24	42	14
ST210	103	16.5	24	42	14
ST211	131	25	30	56	20
ST212	131	25	30	56	26

### 11. Bearing Inserts — Life Estimation for Different Speeds and $\frac{C_r}{P_r}$ Ratios.

Table 37.

$L_{10h}$ (hours)	$C_r/P_r$ when speed n=															
	(r/min)															
	50	100	200	300	500	750	900	1000	1500	1800	2000	2500	3000	4000	5000	6000
500	1.14	1.45	1.82	2.08	2.47	2.82	3.00	3.11	3.56	3.78	3.91	4.22	4.48	4.93	5.32	5.65
1000	1.44	1.82	2.29	2.62	3.11	3.56	3.78	3.91	4.48	4.76	4.93	5.31	5.65	6.21	6.70	7.11
1500	1.65	2.08	2.62	3.00	3.56	4.08	4.31	4.48	5.13	5.45	5.65	6.10	6.46	7.11	7.65	8.15
2000	1.82	2.29	2.88	3.30	3.91	4.48	4.76	4.93	5.65	6.00	6.21	6.69	7.11	7.81	8.43	8.96
3000	2.08	2.62	3.30	3.78	4.48	5.13	5.42	5.65	6.46	6.85	7.11	7.66	8.14	8.96	9.65	10.3
5000	2.47	3.11	3.91	4.48	5.32	6.08	6.46	6.70	7.66	8.14	8.43	9.09	9.65	10.6	11.5	12.2
7500	2.82	3.56	4.48	5.13	6.06	6.96	7.37	7.66	8.77	9.32	9.65	10.4	11.1	12.2	13.1	13.9
10000	3.11	3.91	4.93	5.65	6.70	7.66	8.14	8.43	9.65	10.3	10.6	11.4	12.2	13.4	14.5	15.3
15000	3.56	4.48	5.65	6.46	7.66	8.77	9.28	9.65	11.1	11.7	12.2	13.1	13.9	15.3	16.5	17.5
20000	3.91	4.93	6.21	7.11	8.43	9.65	10.3	10.6	12.2	12.9	13.4	14.4	15.3	16.8	18.2	19.3
30000	4.48	5.65	7.11	8.14	9.65	11.1	11.7	12.2	13.9	14.8	15.3	16.5	17.5	19.3	20.8	22.1
40000	4.93	6.21	7.81	8.96	10.6	12.2	12.9	13.4	15.3	16.3	16.8	18.2	19.3	21.2	22.9	24.3
60000	5.65	7.11	8.96	10.3	12.2	13.9	14.8	15.3	17.5	18.6	19.3	20.8	22.1	24.3	26.2	27.8
80000	6.21	7.81	9.83	11.3	13.4	15.3	16.3	16.8	19.3	20.5	21.2	22.9	24.3	26.7	28.8	30.7

Life estimation for UC212 insert bearing with steady radial load  $F_r = 3250$  N at a speed of 1500 r/min.

The dynamic load rating  $C_r$  of the inset bearing UC212 from page C-1 is 47800 N.

Since the bearing is not subject to axial load, the equivalent load  $P_r = F_r \times f_d = 3250$  N  $\times$  1.2 = 3900 N (When no shocking load or minor shocking load, shocking load factor  $f_d = 1 \sim 1.2$ ).

Using the load ratio tables, an approximate life can be obtained by locating the nearest  $C_r/P_r$  value in the appropriate r/min column.

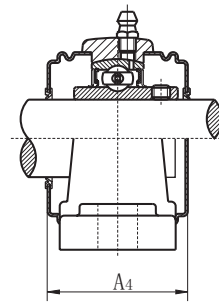
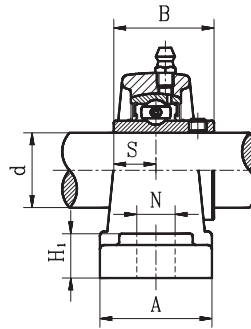
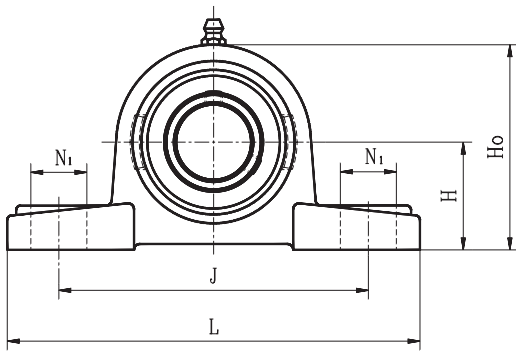
$$\text{Therefore for } C_r/P_r = \frac{47800}{3900} = 12.256$$

Under the  $n = 1500$  r/min column, the nearest  $C_r/P_r$  value is 12.2 with give an approximate life of 20000 hours.





# PILLOW BLOCKS



**UCP2**  
Setscrew type

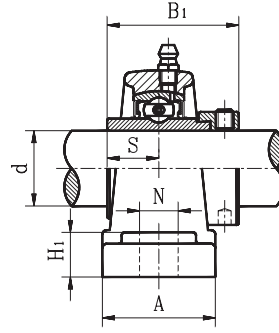
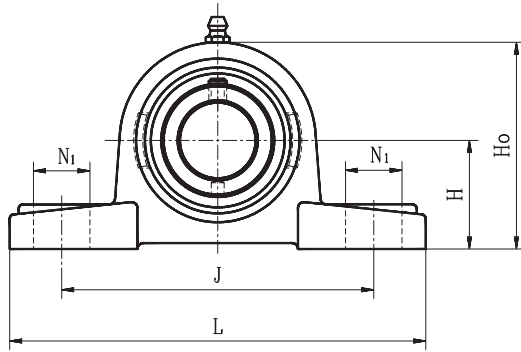
**S-UCP200E1**  
**SM-UCP200E1**

Unit No.	Shaft Dia.		Dimensions (mm)										Bolt Size	Bearing No.	Housing No.	Mass (kg)	Available		
	d		H	L	J	A	N	N <sub>1</sub>	H <sub>1</sub>	H <sub>0</sub>	S	B					A <sub>4</sub>	N	N <sub>i</sub>
	(in.)	(mm)																	
UCP201S 201-8S 202S 202-10S 203S 203-11S	1/2 5/8 11/16	12 15 17	30.2	125	96	32	12	16	13	57	11.5	27.4	--	M10	UC201S 201-8S 202S 202-10S 203S 203-11S	P203S	0.6	--	--
UCP201 201-8 202 202-10 203 203-11	1/2 5/8 11/16	12 15 17	30.2	127	96	37	13	19	14	60.7	12.7	31	--	M10	UC201 201-8 202 202-10 203 203-11	P203	0.65	--	--
UCP204-12 204	3/4	20	33.3	127	96	37	13	16	14	63.8	12.7	31	45	M10	UC204-12 204	P204	0.65	13	19
UCP205-14 205-15 205 205-16	7/8 15/16 1	25	36.5	140	105	38	13	19	15	69.5	14.3	34	48	M10	UC205-14 205-15 205 205-16	P205	0.72	--	--
UCP206-18 206 206-19 206-20	1-1/8 1-3/16 1-1/4	30	42.9	160	121	44	14	19	16	82	15.9	38.1	52	M12	UC206-18 206 206-19 206-20	P206	1.15	17	21
UCP207-20 207-21 207-22 207 207-23	1-1/4 1-5/16 1-3/8 1-7/16	35	47.6	167	126	48	15	19	17	92	17.5	42.9	59	M12	UC207-20 207-21 207-22 207 207-23	P207	1.53	17	21
UCP208-24 208-25 208	1-1/2 1-9/16	40	49.2	180	136	52	15	21	18	98	19	49.2	68	M12	UC208-24 208-25 208	P208	1.88	17	23
UCP209-26 209-27 209-28 209	1-5/8 1-11/16 1-3/4	45	54	189	146	54	15	21	20	105.5	19	49.2	70	M12	UC209-26 209-27 209-28 209	P209	2.1	17	23
UCP210-30 210-31 210	1-7/8 1-15/16	50	57.2	204	159	57	19	22	21	112.2	19	51.6	75	M16	UC210-30 210-31 210	P210	2.5	--	--
UCP211-32 211-34 211 211-35	2 2-1/8 2-3/16	55	63.5	217	172	60	19	22	22	124.5	22.2	55.6	78	M16	UC211-32 211-34 211 211-35	P211	3.3	--	--
UCP212-36 212 212-38 212-39	2-1/4 2-3/8 2-7/16	60	69.9	238	186	66	19	25	24	137	25.4	65.1	91	M16	UC212-36 212 212-38 212-39	P212	5.5	--	--
UCP213-40 213	2-1/2	65	76.2	262	203	70	23	29	26	149	25.4	65.1	98	M20	UC213-40 213	P213	5.6	25	29
UCP214-44 214	2-3/4	70	79.4	266	210	72	23	29	27	155	30.2	74.6	--	M20	UC214-44 214	P214	6.6	25	29
UCP215 215-48	3	75	82.6	274	217	74	25	29	28	161.6	33.3	77.8	--	M20	UC215 215-48	P215	7.3	--	--
UCP216		80	88.9	292	232	78	25	30	30	174	33.3	82.6	--	M20	UC216	P216	8.3	--	--
UCP217-52 217	3-1/4	85	95.2	310	247	83	25	30	32	186	34.1	85.7	--	M20	UC217-52 217	P217	10.8	--	--
UCP218-56 218	3-1/2	90	101.6	326	262	88	27	30	33	198	39.7	96	--	M22	UC218-56 218	P218	13	27	33
UCP220 220-64	4	100	115	380	305	95	30	36	40	225	42	108	--	M24	UC220 220-64	P220	16	--	--

Note: Grease fittings can locate at 45° position of housings front right side.



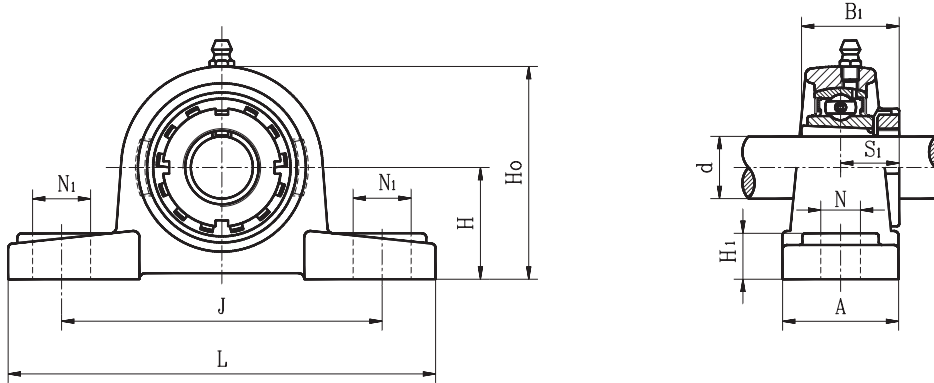
# PILLOW BLOCKS



## NAP2 Eccentric locking collar type

Unit No.	Shaft Dia.		Dimensions (mm)									Bolt Size	Bearing No.	Housing No.	Mass (kg)	Available		
	d (in.)	d (mm)	H	L	J	A	N	N <sub>1</sub>	H <sub>1</sub>	H <sub>o</sub>	S					B <sub>1</sub>	N	N <sub>1</sub>
NAP201S 201-8S 202S 202-10S 203S 203-11S	1/2 5/8 11/16	12 15 17	30.2	125	96	32	12	16	13	57	13.9	37.3	M10	NA201S 201-8S 202S 202-10S 203S 203-11S	P203S	0.68	--	--
NAP201 201-8 202 202-10 203 203-11	1/2 5/8 11/16	12 15 17	30.2	127	96	37	13	19	14	60.7	17	43.5	M10	NA201 201-8 202 202-10 203 203-11	P203	0.72	--	--
NAP204-12 204	3/4	20	33.3	127	96	37	13	16	14	63.8	17	43.5	M10	NA204-12 204	P204	0.72	13	19
NAP205-14 205-15 205 205-16	7/8 15/16 1	25	36.5	140	105	38	13	19	15	69.5	17.4	44.3	M10	NA205-14 205-15 205 205-16	P205	0.8	--	--
NAP206-18 206 206-19 206-20	1-1/8 1-3/16 1-1/4	30	42.9	160	121	44	14	19	16	82	18.2	48.3	M12	NA206-18 206 206-19 206-20	P206	1.35	17	21
NAP207-20 207-21 207-22 207 207-23	1-1/4 1-5/16 1-3/8 1-7/16	35	47.6	167	126	48	15	19	17	92	18.8	51.1	M12	NA207-20 207-21 207-22 207 207-23	P207	1.7	17	21
NAP208-24 208-25 208	1-1/2 1-9/16	40	49.2	180	136	52	15	21	18	98	21.4	56.3	M12	NA208-24 208-25 208	P208	2	17	23
NAP209-26 209-27 209-28 209	1-5/8 1-11/16 1-3/4	45	54	189	146	54	15	21	20	105.5	21.4	56.3	M12	NA209-26 209-27 209-28 209	P209	2.42	17	23
NAP210-30 210-31 210	1-7/8 1-15/16	50	57.2	204	159	57	19	22	21	112.2	24.6	62.7	M16	NA210-30 210-31 210	P210	2.75	--	--
NAP211-32 211-34 211 211-35	2 2-1/8 2-3/16	55	63.5	217	172	60	19	22	22	124.5	27.7	71.3	M16	NA211-32 211-34 211 211-35	P211	3.56	--	--
NAP212-36 212 212-38 212-39	2-1/4 2-3/8 2-7/16	60	69.9	238	186	66	19	25	24	137	30.9	77.7	M16	NA212-36 212 212-38 212-39	P212	5.2	--	--
NAP213-40 213	2-1/2	65	76.2	262	203	70	23	29	26	149	34.1	85.7	M20	NA213-40 213	P213	6.3	25	29
NAP214-44 214	2-3/4	70	79.4	266	210	72	23	29	27	155	34.1	85.7	M20	NA214-44 214	P214	7	25	29
NAP215 215-48	3	75	82.6	274	217	74	25	29	28	161.6	37.3	92.1	M20	NA215 215-48	P215	7.8	--	--
NAP216		80	88.9	292	232	78	25	30	30	174	37.3	95.2	M20	NA216	P216	8.3	--	--
NAP217-52 217	3-1/4	85	95.2	310	247	83	25	30	32	186	23.4	73.2	M20	NA217-52 217	P217		--	--
NAP218-56 218	3-1/2	90	101.6	326	262	88	27	30	33	198	24.5	72.5	M22	NA218-56 218	P218		27	33

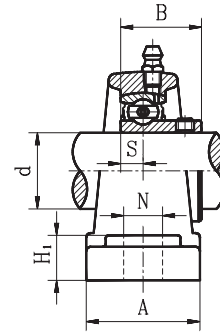
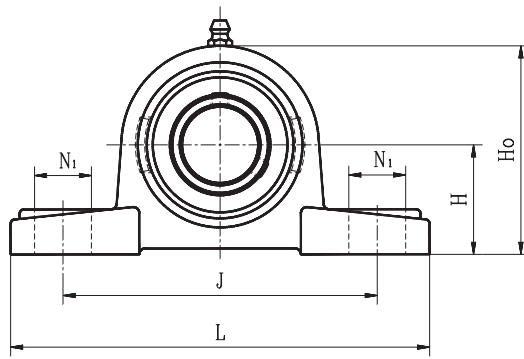
Note: Grease fittings can locate at 45° position of housings front right side.



## UKP2+H Tapered bore, adapter type

Unit No.	Shaft Dia.		Dimensions (mm)										Bolt Size	Bearing No.	Housing No.	Adapter No.	Mass (kg)	Available	
	d		H	L	J	A	N	N <sub>1</sub>	H <sub>1</sub>	H <sub>0</sub>	S <sub>1</sub>	B <sub>1</sub>						N	N <sub>1</sub>
	(in.)	(mm)																	
UKP205+HE2305 205+H2305	3/4	20	36.5	140	105	38	13	19	15	69.5	18.5	35	M10	UK205	P205	HE2305 H2305	0.83	--	--
UKP206+HS2306 206+HA2306 206+H2306 206+HE2306	7/8 15/16 1	25	42.9	160	121	44	14	19	16	82	20.5	38	M12	UK206	P206	HS2306 HA2306 H2306 HE2306	1.3	17	21
UKP207+HS2307 207+H2307 207+HA2307	1-1/8 1-3/16	30	47.6	167	126	48	15	19	17	92	22.5	43	M12	UK207	P207	HS2307 H2307 HA2307	1.5	17	21
UKP208+HE2308 208+HS2308 208+H2308	1-1/4 1-3/8	35	49.2	180	136	52	15	21	18	98	24.5	46	M12	UK208	P208	HE2308 HS2308 H2308	2.0	17	23
UKP209+HA2309 209+HE2309 209+H2309	1-7/16 1-1/2	40	54	189	146	54	15	21	20	105.5	26	50	M12	UK209	P209	HA2309 HE2309 H2309	2.3	17	23
UKP210+HS2310 210+HA2310 210+HE2310 210+H2310	1-5/8 1-11/16 1-3/4	45	57.2	204	159	57	19	22	21	112.2	27.5	55	M16	UK210	P210	HS2310 HA2310 HE2310 H2310	3.0	--	--
UKP211+HS2311 211+HA2311 211+H2311 211+HE2311	1-7/8 1-15/16 2	50	63.5	217	172	60	19	22	22	124.5	28.5	59	M16	UK211	P211	HS2311 HA2311 H2311 HE2311	3.5	--	--
UKP212+HS2312 212+H2312	2-1/8	55	69.9	238	186	66	19	25	24	137	31	62	M16	UK212	P212	HS2312 H2312	4.7	--	--
UKP213+HA2313 213+HE2313 213+H2313 213+HS2313	2-3/16 2-1/4 2-3/8	60	76.2	262	203	70	23	29	26	149	32	65	M20	UK213	P213	HA2313 HE2313 H2313 HS2313	5.9	25	29
UKP215+HA2315 215+HE2315 215+H2315	2-7/16 2-1/2	65	82.6	274	217	74	25	29	28	161.6	35.5	73	M20	UK215	P215	HA2315 HE2315 H2315	7.6	--	--
UKP216+HA2316 216+HE2316 216+H2316	2-11/16 2-3/4	70	88.9	292	232	78	25	30	30	174	39	78	M20	UK216	P216	HA2316 HE2316 H2316	9.2	--	--
UKP217+H2317		75	95.2	310	247	83	25	30	32	186	40	82	M20	UK217	P217	H2317		--	--
UKP218+H2318		80	101.6	326	262	88	27	30	33	198	42	86	M22	UK218	P218	H2318		27	33

Note: Grease fittings can locate at 45° position of housings front right side.

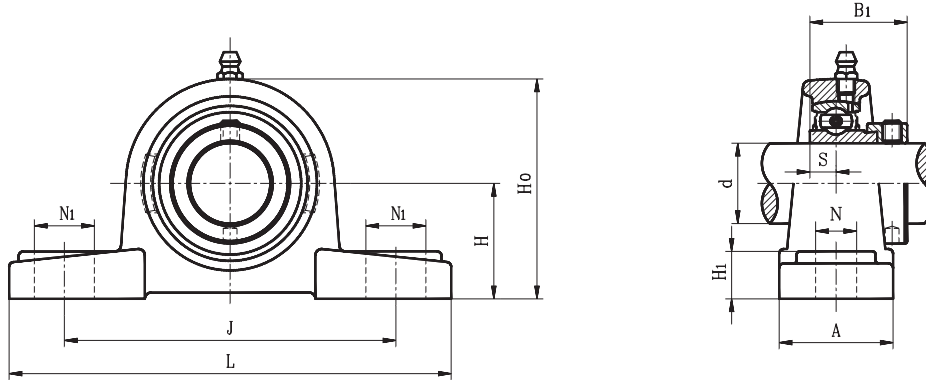


## SBP2G Setscrew type

Unit No.	Shaft Dia.		Dimensions (mm)										Bolt Size	Bearing No.	Housing No.	Mass (kg)	Available	
	d		H	L	J	A	N	N <sub>1</sub>	H <sub>1</sub>	H <sub>0</sub>	S	B					N	N <sub>1</sub>
	(in.)	(mm)																
SBP201G 201-8G 202G 202-10G 203G 203-11G	1/2 5/8 11/16	12 15 17	30.2	125	96	32	12	16	13	57	6	22	M10	SB201G 201-8G 202G 202-10G 203G 203-11G	P203S	0.63	--	--
SBP204-12G 204G	3/4	20	33.3	127	96	37	13	16	14	63.8	7	25	M10	SB204-12G 204G	P204	0.63	13	19
SBP205-14G 205-15G 205G 205-16G	7/8 15/16 1	25	36.5	140	105	38	13	19	15	69.5	7.5	27	M10	SB205-14G 205-15G 205G 205-16G	P205	0.83	--	--
SBP206-18G 206G 206-19G 206-20G	1- 1/8 1- 3/16 1- 1/4	30	42.9	160	121	44	14	19	16	82	8	30	M12	SB206-18G 206G 206-19G 206-20G	P206	1.34	17	21
SBP207-20G 207-21G 207-22G 207G 207-23G	1- 1/4 1- 5/16 1- 3/8 1- 7/16	35	47.6	167	126	48	15	19	17	92	8.5	32	M12	SB207-20G 207-21G 207-22G 207G 207-23G	P207	1.57	17	21
SBP208-24G 208-25G 208G	1- 1/2 1- 9/16	40	49.2	180	136	52	15	21	18	98	9	34	M12	SB208-24G 208-25G 208G	P208	2.04	17	23
SBP209-26G 209-27G 209-28G 209G	1-5/8 1-11/16 1-3/4	45	54	189	146	54	15	21	20	105.5	10.2	41.2	M12	SB209-26G 209-27G 209-28G 209G	P209	2.17	17	23
SBP210-30G 210-31G 210	1-7/8 1-15/16	50	57.2	204	159	57	19	22	21	112.2	10.9	43.5	M16	SB210-30G 210-31G 210	P210	2.48	--	--
SBP211-32G 211-34G 211G 211-35G	2 2-1/8 2-3/16	55	63.5	217	172	60	19	22	22	124.5	11.8	45.3	M16	SB211-32G 211-34G 211G 211-35G	P211	3.24	--	--
SBP212-36G 212G 212-38G 212-39G	2-1/4 2-3/8 2-7/16	60	69.9	238	186	66	19	25	24	137	14.9	53.7	M16	SB212-36G 212G 212-38G 212-39G	P212	5.26	--	--

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

Note : Grease fittings can locate at 45° position of housings front right side.



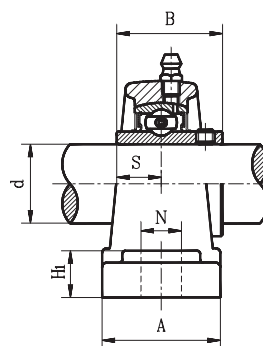
## SAP2G

Eccentric locking collar type

Unit No.	Shaft Dia.		Dimensions (mm)										Bolt Size	Bearing No.	Housing No.	Mass (kg)	Available		
	d (in.)	d (mm)	H	L	J	A	N	N <sub>1</sub>	H <sub>1</sub>	H <sub>0</sub>	S	B <sub>1</sub>					N	N <sub>1</sub>	
SAP201G		12																	
201-8G	1/2	15	30.2	125	96	32	12	16	13	57	6.5	28.6	M10	SA201G	P203S	0.65	--	--	
202G														201-8G					
202-10G	5/8	17												202G					
203G														202-10G					
203-11G	11/16													203G					
SAP204-12G	3/4	20	33.3	127	96	37	13	16	14	63.8	7.5	30.9	M10	SA204-12G	P204	0.65	13	19	
204G														204G					
SAP205-14G	7/8													SA205-14G	P205	0.85	--	--	
205-15G	15/16	25	36.5	140	105	38	13	19	15	69.5	7.5	30.9	M10	205-15G					
205G														205G					
205-16G	1													205-16G					
SAP206-18G	1-1/8	30	42.9	160	121	44	14	19	16	82	9	35.7	M12	SA206-18G	P206	1.4	17	21	
206G														206G					
206-19G	1-3/16													206-19G					
206-20G	1-1/4													206-20G					
SAP207-20G	1-1/4													SA207-20G	P207	1.68	17	21	
207-21G	1-5/16	35	47.6	167	126	48	15	19	17	92	9.5	38.9	M12	207-21G					
207-22G	1-3/8													207-22G					
207G														207G					
207-23G	1-7/16													207-23G					
SAP208-24G	1-1/2													SA208-24G	P208	2.12	17	23	
208-25G	1-9/16	40	49.2	180	136	52	15	21	18	98	11	43.7	M12	208-25G					
208G														208G					
SAP209-26G	1-5/8													SA209-26G	P209	2.39	17	23	
209-27G	1-11/16	45	54	189	146	54	15	21	20	105.5	11	43.7	M12	209-27G					
209-28G	1-3/4													209-28G					
209G														209G					
SAP210-30G	1-7/8													SA210-30G	P210	2.59	--	--	
210-31G	1-15/16	50	57.2	204	159	57	19	22	21	112.2	11	43.7	M16	210-31G					
210G														210G					
SAP211-32G	2													SA211-32G	P211	3.36	--	--	
211-34G	2-1/8	55	63.5	217	172	60	19	22	22	124.5	12	48.4	M16	211-34G					
211G														211G					
211-35G	2-3/16													211-35G					
SAP212-36G	2-1/4	60	69.9	238	186	66	19	25	24	137	12	49.3	M16	SA212-36G	P212	5.16	--	--	
212G														212G					
212-38G	2-3/8													212-38G					
212-39G	2-7/16													212-39G					

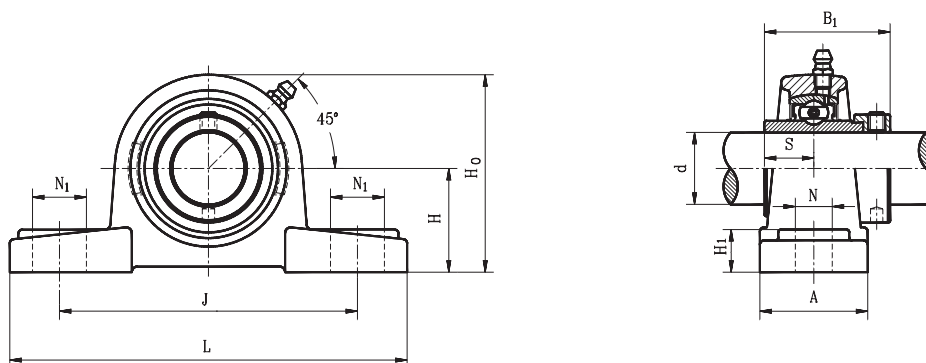
Remarks : These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "G".

Note : Grease fittings can locate at 45° position of housings front right side.



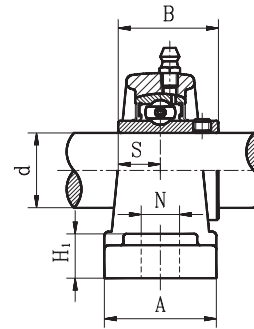
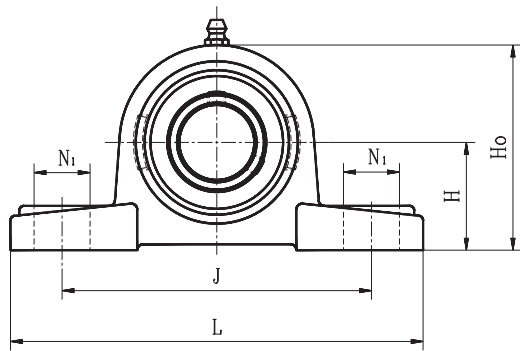
## UCPK2 Setscrew type

Unit No.	Shaft Dia.		Dimensions (mm)										Bolt Size	Bearing No.	Housing No.	Mass (kg)
	d		H	L	J	A	N	N <sub>1</sub>	H <sub>1</sub>	H <sub>o</sub>	S	B				
	(in.)	(mm)														
UCPK201S 201-8S 202S 202-10S 203S 203-11S	1/2 5/8 11/16	12 15 17	27	121	89	35	11	14	13	54	11.5	27.4	M10	UC201S 201-8S 202S 202-10S 203-S 203-11S	PK203	0.6
UCPK201 201-8 202 202-10 203 203-11 204-12 204	1/2 5/8 11/16 3/4	12 15 17 20	31.8	128	98	38	11	14	14	63	12.7	31	M10	UC201 201-8 202 202-10 203 203-11 204-12 204	PK204	0.68
UCPK205-14 205-15 205 205-16	7/8 15/16 1	25	33.3	140	105	40	11	14	15	66.5	14.3	34	M10	UC205-14 205-15 205 205-16	PK205	0.72
UCPK206-18 206 206-19 206-20	1- 1/8 1- 3/16 1- 1/4	30	39.7	160	121	44	14	19	17	79	15.9	38.1	M12	UC206-18 206 206-19 206-20	PK206	1.1
UCPK207-20 207-21 207-22 207 207-23	1- 1/4 1- 5/16 1- 3/8 1-7/16	35	46	167	127	48	14	19	18	91	17.5	42.9	M12	UC207-20 207-21 207-22 207 207-23	PK207	1.48
UCPK208-24 208-25 208	1- 1/2 1- 9/16	40	49.2	181	140	52	14	19	19	98	19	49.2	M12	UC208-24 208-25 208	PK208	1.88
UCPK209-26 209-27 209-28 209	1- 5/8 1- 11/16 1- 3/4	45	52.4	189	146	54	14	19	20	105	19	49.2	M12	UC209-26 209-27 209-28 209	PK209	2.1
UCPK210-30 210-31 210	1- 7/8 1-15/16	50	55.6	203	159	57	14	19	21	111.5	19	51.6	M12	UC210-30 210-31 210	PK210	2.6
UCPK211-32 211-34 211 211-35	2 2- 1/8 2- 3/16	55	61.9	232	181	60	18	24	23	123	22.2	55.6	M16	UC211-32 211-34 211 211-35	PK211	3.3
UCPK212-36 212 212-38 212-39	2- 1/4 2- 3/8 2- 7/16	60	68.3	241	191	64	18	24	25	136	25.4	65.1	M16	UC212-36 212 212-38 212-39	PK212	4.5
UCPK213-40 213	2- 1/2	65	68.3	248	194	70	18	29	27	141	25.4	65.1	M16	UC213-40 213	PK213	5.6



**NAPK2**  
Eccentric locking coliar type

Unit No.	Shaft Dia.		Dimensions (mm)										Bolt Size	Bearing No.	Housing No.	Mass (kg)
	d		H	L	J	A	N	N <sub>1</sub>	H <sub>1</sub>	H <sub>0</sub>	S	B <sub>1</sub>				
	(in.)	(mm)														
NAPK201S 201-8S 202S 202-10S 203S 203-11S	1/2 5/8 11/16	12 15 17	27	121	89	35	11	14	13	54	13.9	37.3	M10	NA201S 201-8S 202S 202-10S 203S 203-11S	PK203	0.65
NAPK201 201-8 202 202-10 203 203-11 204-12 204	1/2 5/8 11/16 3/4	12 15 17 20	31.8	128	98	38	11	14	14	63	17	43.5	M10	NA201 201-8 202 202-10 203 203-11 204-12 204	PK204	0.73
NAPK 205-14 205-15 205 205-16	7/8 15/16 1	25	33.3	140	105	40	11	14	15	66.5	17.4	44.3	M10	NA205-14 205-15 205 205-16	PK205	0.8
NAPK 206-18 206 206-19 206-20	1- 1/8 1- 3/16 1- 1/4	30	39.7	160	121	44	14	19	17	79	18.2	48.3	M12	NA206-18 206 206-19 206-20	PK206	1.33
NAPK 207-20 207-21 207-22 207 207-23	1- 1/4 1- 5/16 1- 3/8 1-7/16	35	46	167	127	48	14	19	18	91	18.8	51.1	M12	NA207-20 207-21 207-22 207 207-23	PK207	1.65
NAPK 208-24 208-25 208	1- 1/2 1- 9/16	40	49.2	181	140	52	14	19	19	98	21.4	56.3	M12	NA208-24 208-25 208	PK208	2.0
NAPK 209-26 209-27 209-28 209	1- 5/8 1- 11/16 1- 3/4	45	52.4	189	146	54	14	19	20	105	21.4	56.3	M12	NA209-26 209-27 209-28 209	PK209	2.42
NAPK 210-30 210-31 210	1- 7/8 1-15/16	50	55.6	203	159	57	14	19	21	111.5	24.6	62.7	M12	NA210-30 210-31 210	PK210	2.75
NAPK 211-32 211-34 211 211-35	2 2- 1/8 2- 3/16	55	61.9	232	181	60	18	24	23	123	27.7	71.3	M16	NA211-32 211-34 211 211-35	PK211	3.56
NAPK 212-36 212 212-38 212-39	2- 1/4 2- 3/8 2- 7/16	60	68.3	241	191	64	18	24	25	136	30.9	77.7	M16	NA212-36 212 212-38 212-39	PK212	5.2
NAPK 213-40 213	2- 1/2	65	68.3	248	194	70	18	29	27	141	34.1	85.7	M16	NA213-40 213	PK213	6.3



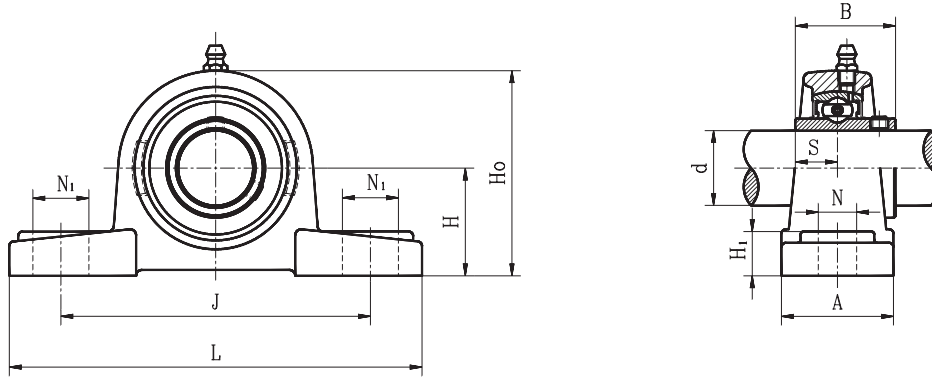
## UCPX Setscrew type

Unit No.	Shaft Dia.		Dimensions (mm)										Bolt Size	Bearing No.	Housing No.	Mass (kg)
	d		H	L	J	A	N	N <sub>1</sub>	H <sub>1</sub>	H <sub>o</sub>	S	B				
	(in.)	(mm)														
UCPX05-14 X05-15 X05 X05-16	7/8 15/16 1	25	44.4	159	119	51	17	20	17	85	15.9	38.1	M14	UCX05-14 X05-15 X05 X05-16	PX05	1.5
UCPX06-18 X06 X06-19 X06-20	1-1/8 1-3/16 1-1/4	30	47.6	175	127	54	17	20	20	93	17.5	42.9	M14	UCX06-18 X06 X06-19 X06-20	PX06	2.1
UCPX07-22 X07 X07-23	1-3/8 1-7/16	35	54	203	144	57	17	20	21	105	19	49.2	M14	UCX07-22 X07 X07-23	PX07	2.7
UCPX08-24 X08	1-1/2	40	58.7	222	156	65	20	23	23	112	19	49.2	M16	UCX08-24 X08	PX08	3.5
UCPX09-26 X09-27 X09-28 X09	1-5/8 1-11/16 1-3/4	45	58.7	222	156	67	20	23	25	116	19	51.6	M16	UCX09-26 X09-27 X09-28 X09	PX09	3.7
UCPX10-30 X10-31 X10 X10-32	1-7/8 1-15/16 2	50	63.5	240	171	71	20	23	24	126	22.2	55.6	M16	UCX10-30 X10-31 X10 X10-32	PX10	4.6
UCPX11-34 X11 X11-35 X11-36	2-1/8 2-3/16 2-1/4	55	69.8	260	184	79	25	28	29	137	25.4	65.1	M20	UCX11-34 X11 X11-35 X11-36	PX11	6.5
UCPX12 X12-38 X12-39	2-3/8 2-7/16	60	76.2	280	203	81	25	28	31	149	25.4	65.1	M20	UCX12 X12-38 X12-39	PX12	7.7
UCPX13-40 X13	2-1/2	65	76.2	286	203	83	25	28	33	152	30.2	74.6	M20	UCX13-40 X13	PX13	8.1
UCPX14-44 X14	2-3/4	70	88.9	320	229	85	27	30	34	170	33.3	77.8	M22	UCX14-44 X14	PX14	10.2
UCPX15 X15-48	3	75	88.9	330	229	92	27	30	35	175	33.3	82.6	M22	UCX15 X15-48	PX15	10.8
UCPX16		80	101.6	378	283	99	27	30	37	194	34.1	85.7	M22	UCX16	PX16	15.3
UCPX17-52 X17	3-1/4	85	101.6	380	283	102	27	30	40	200	39.7	96	M22	UCX17-52 X17	PX17	16.1
UCPX18-56 X18	3-1/2	90	101.6	381	283	106	27	30	40	206	42.9	104	M22	UCX18-56 X18	PX18	19.1
UCPX20 X20-64	4	100	127	432	337	120	33	36	45	244	49.2	117.5	M27	UCX20 X20-64	PX20	30.4



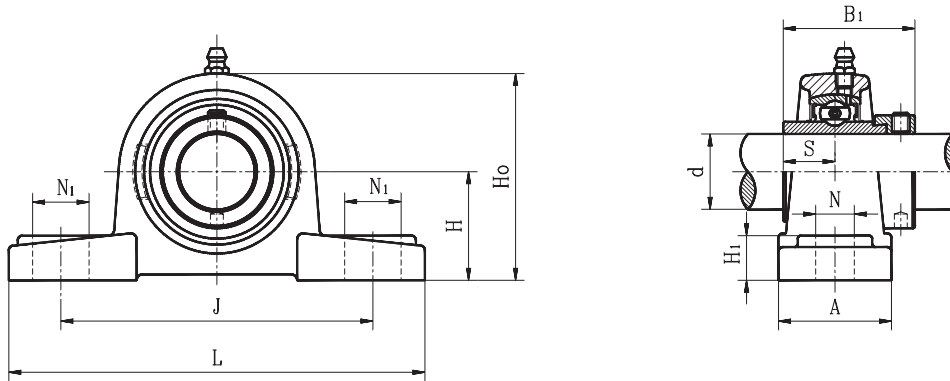


# PILLOW BLOCKS



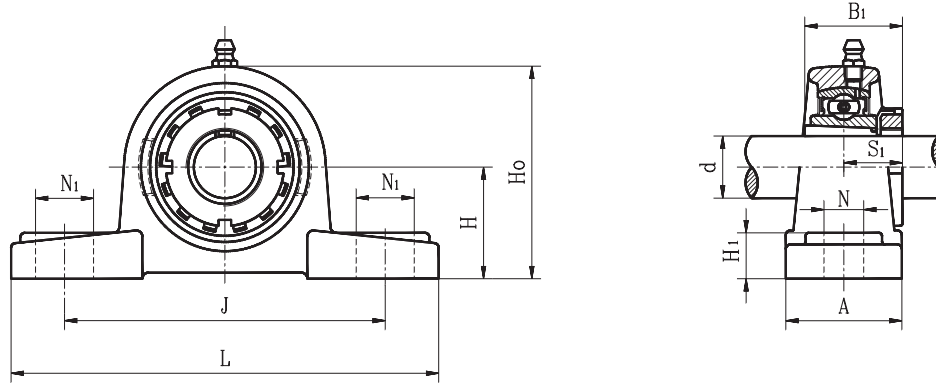
## UCP3 Setscrew type

Unit No.	Shaft Dia.		Dimensions (mm)										Bolt Size	Bearing No.	Housing No.	Mass (kg)
	d		H	L	J	A	N	N <sub>1</sub>	H <sub>1</sub>	H <sub>o</sub>	S	B				
	(in.)	(mm)														
UCP305-14 305-15 305 305-16	7/8 15/16 1	25	45	173	132	45	17	20	15	85	15	38	M14	UC 305-14 305-15 305 305-16	P305	1.4
UCP306-18 306 306-19	1- 1/8 1- 3/16	30	50	180	140	50	17	20	15	95	17	43	M14	UC306-18 306 306-19	P306	1.8
UCP307-20 307-21 307-22 307	1- 1/4 1- 5/16 1- 3/8	35	56	210	160	56	17	25	19	106	19	48	M14	UC307-20 307-21 307-22 307	P307	2.8
UCP308-24 308-25 308	1- 1/2 1- 9/16	40	60	218	170	62	18	25	19	116	19	52	M14	UC308-24 308-25 308	P308	3.0
UCP309-26 309-27 309-28 309	1- 5/8 1-11/16 1- 3/4	45	67	244	190	66	20	26	23	129	22	57	M16	UC309-26 309-27 309-28 309	P309	4.1
UCP310-30 310-31 310	1- 7/8 1-15/16	50	75	271	212	74	20	30	26	143	22	61	M16	UC310-30 310-31 310	P310	5.8
UCP311-32 311-34 311 311-35	2 2-1/8 2-3/16	55	80	300	236	80	20	32	29	154	25	66	M16	UC311-32 311-34 311 311-35	P311	7.4
UCP312-36 312 312-38 312-39	2-1/4 2-3/8 2-7/16	60	85	325	250	85	23	35	31	164	26	71	M20	UC312-36 312 312-38 312-39	P312	9.4
UCP313-40 313	2- 1/2	65	90	335	260	90	25	38	33	176	30	75	M20	UC313-40 313	P313	10
UCP314-44 314	2-3/4	70	95	360	280	93	27	40	34	187	31	78	M22	UC314-44 314	P314	12
UCP315 315-48	3	75	100	380	290	100	27	40	35	198	32	82	M22	UC315 315-48	P315	14
UCP316		80	106	400	300	105	27	40	37	210	34	86	M22	UC316	P316	18
UCP317-52 317	3- 1/4	85	112	420	320	110	33	45	40	220	40	96	M27	UC317-52 317	P317	20
UCP318-56 318	3-1/2	90	118	430	330	110	33	45	40	234	40	96	M27	UC318-56 318	P318	24
UCP319 319-60	3-3/4	95	125	470	360	120	36	50	45	248	41	103	M30	UC319 319-60	P319	29
UCP320 320-64	4	100	140	490	380	120	36	50	50	275	42	108	M30	UC320 320-64	P320	35
UCP322		110	150	520	400	140	40	55	55	300	46	117	M33	UC322	P322	45
UCP324		120	160	570	450	140	40	55	65	320	51	126	M33	UC324	P324	55
UCP326		130	180	600	480	140	40	55	75	355	54	135	M33	UC326	P326	72
UCP328		140	200	620	500	140	40	55	75	390	59	145	M33	UC328	P328	89



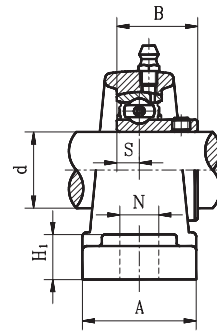
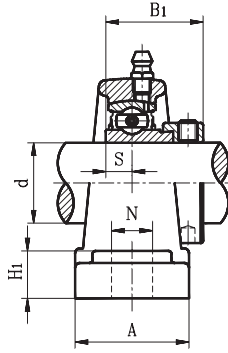
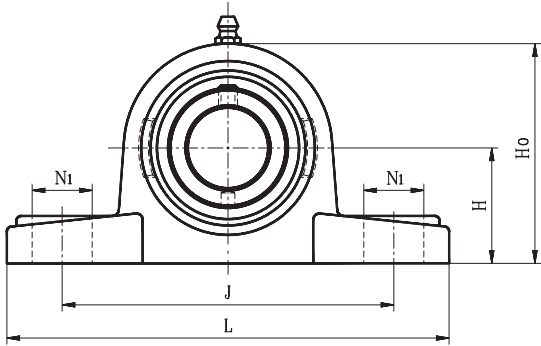
**NAP3**  
Eccentric locking collar type

Unit No.	Shaft Dia.		Dimensions (mm)										Bolt Size	Bearing No.	Housing No.	Mass (kg)
	d		H	L	J	A	N	N <sub>1</sub>	H <sub>1</sub>	H <sub>o</sub>	S	B <sub>1</sub>				
	(in.)	(mm)														
NAP305-14 305-15 305 305-16	7/8 15/16 1	25	45	173	132	45	17	20	15	85	16.7	46.8	M14	NA305-14 305-15 305 305-16	P305	1.4
NAP306-18 306 306-19	1-1/8 1-3/16	30	50	180	140	50	17	20	15	95	17.5	50	M14	NA306-18 306 306-19	P306	1.9
NAP307-20 307-21 307-22 307	1-1/4 1-5/16 1-3/8	35	56	210	160	56	17	25	19	106	18.3	51.6	M14	NA307-20 307-21 307-22 307	P307	2.9
NAP308-24 308-25 308	1-1/2 1-9/16	40	60	218	170	62	18	25	19	116	19.8	57.1	M14	NA308-24 308-25 308	P308	3.1
NAP309-26 309-27 309-28 309	1-5/8 1-11/16 1-3/4	45	67	244	190	66	20	26	23	129	19.8	58.7	M16	NA309-26 309-27 309-28 309	P309	4.3
NAP310-30 310-31 310	1-7/8 1-15/16	50	75	271	212	74	20	30	26	143	24.6	66.6	M16	NA310-30 310-31 310	P310	6.0
NAP311-32 311-34 311 311-35	2 2-1/8 2-3/16	55	80	300	236	80	20	32	29	154	27.8	73	M16	NA311-32 311-34 311 311-35	P311	7.7
NAP312-36 312 312-38 312-39	2-1/4 2-3/8 2-7/16	60	85	325	250	85	23	35	31	164	29.5	79.4	M20	NA312-36 312 312-38 312-39	P312	9.7
NAP313-40 313	2-1/2	65	90	335	260	90	25	38	33	176	32.5	85.7	M20	NA313-40 313	P313	11
NAP314-44 314	2-3/4	70	95	360	280	93	27	40	34	187	34.15	92.1	M22	NA314-44 314	P314	12
NAP315 315-48	3	75	100	380	290	100	27	40	35	198	37.3	100	M22	NA315 315-48	P315	15
NAP316		80	106	400	300	105	27	40	37	210	40.5	106.4	M22	NA316	P316	19
NAP317-52 317	3-1/4	85	112	420	320	110	33	45	40	220	42	109.5	M27	NA317-52 317	P317	21
NAP318-56 318	3-1/2	90	118	430	330	110	33	45	40	234	43.6	115.9	M27	NA318-56 318	P318	25
NAP319 319-60	3-3/4	95	125	470	360	120	36	50	45	248	46.8	122.3	M30	NA319 319-60	P319	30
NAP320 320-64	4	100	140	490	380	120	36	50	50	275	50	128.6	M30	NA320 320-64	P320	37



## UKP3+H Tapered bore, adapter type

Unit No.	Shaft Dia.		Dimensions (mm)										Bolt Size	Bearing No.	Housing No.	Adapter No.	Mass (kg)
	d		H	L	J	A	N	N <sub>1</sub>	H <sub>1</sub>	H <sub>o</sub>	S <sub>1</sub>	B <sub>1</sub>					
	(in.)	(mm)															
UKP305+HE2305 305+H2305	3/4	20	45	173	132	45	17	20	15	85	21.5	35	M14	UK305	P305	HE2305 H2305	1.4
UKP306+HS2306 306+HA2306 306+H2306 306+HE2306	7/8 15/16 1	25	50	180	140	50	17	20	15	95	23	38	M14	UK306	P306	HS2306 HA2306 H2306 HE2306	1.8
UKP307+HS2307 307+H2307 307+HA2307	1-1/8 1-3/16	30	56	210	160	56	17	25	19	106	25.5	43	M14	UK307	P307	HS2307 H2307 HA2307	2.9
UKP308+HE2308 308+HS2308 308+H2308	1-1/4 1-3/8	35	60	218	170	62	18	25	19	116	27.5	46	M14	UK308	P308	HE2308 HS2308 H2308	3.1
UKP309+HA2309 309+HE2309 309+H2309	1-7/16 1-1/2	40	67	244	190	66	20	26	23	129	30	50	M16	UK309	P309	HA2309 HE2309 H2309	4.2
UKP310+HS2310 310+HA2310 310+HE2310 310+H2310	1-5/8 1-11/16 1-3/4	45	75	271	212	74	20	30	26	143	32	55	M16	UK310	P310	HS2310 HA2310 HE2310 H2310	5.8
UKP311+HS2311 311+HA2311 311+H2311 311+HE2311	1-7/8 1-11/16 2	50	80	300	236	80	20	32	29	154	33.5	59	M16	UK311	P311	HS2311 HA2311 H2311 HE2311	7.4
UKP312+HS2312 312+H2312	2-1/8	55	85	325	250	85	23	35	31	164	36.5	62	M20	UK312	P312	HS2312 H2312	9.3
UKP313+HA2313 313+HE2313 313+H2313 313+HS2313	2-3/16 2-1/4 2-3/8	60	90	335	260	90	25	38	33	176	38.5	65	M20	UK313	P313	HA2313 HE2313 H2313 HS2313	10
UKP315+HA2315 315+HE2315 315+H2315	2-7/16 2-1/2	65	100	380	290	100	27	40	35	198	42.5	73	M22	UK315	P315	HA2315 HE2315 H2315	15
UKP316+HA2316 316+HE2316 316+H2316	2-11/16 2-3/4	70	106	400	300	105	27	40	37	210	44.5	78	M22	UK316	P316	HA2316 HE2316 H2316	18
UKP317+HA2317 317+H2317 317+HE2317	2-15/16 3	75	112	420	320	110	33	45	40	220	48	82	M27	UK317	P317	HA2317 H2317 HE2317	20
UKP318+H2318		80	118	430	330	110	33	45	40	234	48	86	M27	UK318	P318	H2318	24
UKP319+HE2319 319+H2319	3-1/4	85	125	470	360	120	36	50	45	248	52	90	M30	UK319	P319	HE2319 H2319	29
UKP320+HE2320 320+H2320	3-1/2	90	140	490	380	120	36	50	50	275	54	97	M30	UK320	P320	HE2320 H2320	35



**SALP2G**

Eccentric locking collar type

**SBLP2G**

Setscrew type

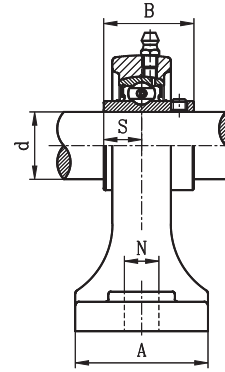
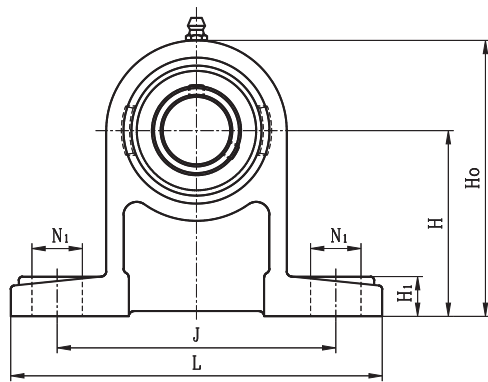
Unit No.	Shaft Dia.		Dimensions (mm)										Bolt Size	Bearing No.	Housing No.	Mass (kg)
	d (in.)	d (mm)	H	L	J	A	H <sub>0</sub>	N	N <sub>1</sub>	H <sub>1</sub>	S	B <sub>1</sub>				
SALP201G 201-8G 202G 202-10G 203G 203-11G	1/2 5/8 11/16	12 15 17	30.2	114	87	25	57	11	16	12	6.5	28.6	M10	SA201G 201-8G 202G 202-10G 203G 203-11G	LP203	0.4
SALP204-12G 204G	3/4	20	33.3	125	97	27	63.8	11.5	16	14	7.5	30.9	M10	SA204-12G 204G	LP204	0.52
SALP205-14G 205-15G 205G 205-16G	7/8 15/16 1	25	36.5	130	100	29	69.5	11.5	16	15	7.5	30.9	M10	SA205-14G 205-15G 205G 205-16G	LP205	0.61
SALP206-18G 206G 206-19G 206-20G	1- 1/8 1- 3/16 1- 1/4	30	42.9	156	121	33	82	14	21	16	9	35.7	M12	SA206-18G 206G 206-19G 206-20G	LP206	0.73
SALP207-20G 207-21G 207-22G 207G 207-23G	1- 1/4 1- 5/16 1- 3/8 1- 7/16	35	47.6	165	127	35	93	14	21	16	9.5	38.9	M12	SA207-20G 207-21G 207-22G 207G 207-23G	LP207	1.0

Unit No.	Shaft Dia.		Dimensions (mm)										Bolt Size	Bearing No.	Housing No.	Mass (kg)
	d (in.)	d (mm)	H	L	J	A	H <sub>0</sub>	N	N <sub>1</sub>	H <sub>1</sub>	S	B				
SBLP201G 201-8G 202G 202-10G 203G 203-11G	1/2 5/8 11/16	12 15 17	30.2	114	87	25	57	11	16	12	6	22	M10	SB201G 201-8G 202G 202-10G 203G 203-11G	LP203	0.36
SBLP204-12G 204G	3/4	20	33.3	125	97	27	63.8	11.5	16	14	7	25	M10	SB204-12G 204G	LP204	0.5
SBLP205-14G 205-15G 205G 205-16G	7/8 15/16 1	25	36.5	130	100	29	69.5	11.5	16	15	7.5	27	M10	SB205-14G 205-15G 205G 205-16G	LP205	0.6
SBLP206-18G 206G 206-19G 206-20G	1- 1/8 1- 3/16 1- 1/4	30	42.9	156	121	33	82	14	21	16	8	30	M12	SB206-18G 206G 206-19G 206-20G	LP206	0.7
SBLP207-20G 207-21G 207-22G 207G 207-23G	1- 1/4 1- 5/16 1- 3/8 1- 7/16	35	47.6	165	127	35	93	14	21	16	8.5	32	M12	SB207-20G 207-21G 207-22G 207G 207-23G	LP207	0.95

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



# HIGH CENTER HEIGHT PILLOW BLOCKS

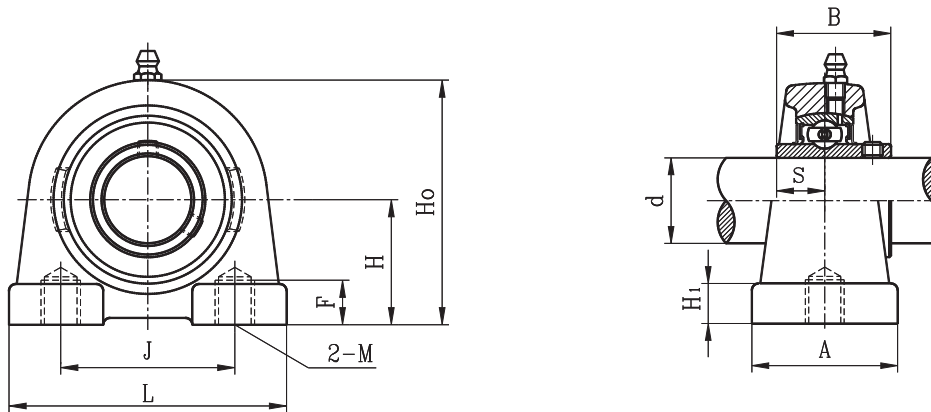


## UCPH2 Setscrew type

Unit No.	Shaft Dia.		Dimensions (mm)										Bolt Size	Bearing No.	Housing No.	Mass (kg)
	d		H	J	L	A	N	N <sub>1</sub>	H <sub>1</sub>	H <sub>o</sub>	S	B				
	(in.)	(mm)														
UCPH201S 201-8S 202S 202-10S 203S 203-11S	1/2 5/8 11/16	12 15 17	70	95	127	38	12	16	13	97	11.5	27.4	M10	UC201S 201-8S 202S 202-10S 203S 203-11S	PH203	0.80
UCPH201 201-8 202 202-10 203 203-11 204-12 204	1/2 5/8 11/16 3/4	12 15 17 20	70	95	127	40	12	16	13	101	12.7	31	M10	UC201 201-8 202 202-10 203 203-11 204-12 204	PH204	0.97
UCPH205-14 205-15 205 205-16	7/8 15/16 1	25	80	105	140	50	13	19	16	114	14.3	34	M10	UC205-14 205-15 205 205-16	PH205	1.20
UCPH206-18 206 206-19 206-20	1-1/8 1-3/16 1-1/4	30	90	121	165	50	17	21	18	130	15.9	38.1	M14	UC206-18 206 206-19 206-20	PH206	1.60
UCPH207-20 207-21 207-22 207 207-23	1-1/4 1-5/16 1-3/8 1-7/16	35	95	127	167	60	17	21	19	140	17.5	42.9	M14	UC207-20 207-21 207-22 207 207-23	PH207	2.10
UCPH208-24 208-25 208	1-1/2 1-9/16	40	100	137	184	66	17	21	20	150	19	49.2	M14	UC208-24 208-25 208	PH208	2.70
UCPH209-26 209-27 209-28 209	1-5/8 1-11/16 1-3/4	45	105	146	190	70	17	21	20	158	19	49.2	M14	UC209-26 209-27 209-28 209	PH209	3.10
UCPH210-30 210-31 210 210-32	1-7/8 1-15/16 2	50	110	159	204	70	19	22	22	165	19	51.6	M16	UC210-30 210-31 210 210-32	PH210	3.50
UCPH211-32 211-34 211 211-35	2 2-1/8 2-3/16	55	120	171	217	75	19	22	23	181	22.2	55.6	M16	UC211-32 211-34 211 211-35	PH211	4.07
UCPH212-36 212 212-38 212-39	2-1/4 2-3/8 2-7/16	60	130	186	236	80	19	22	24	197	25.4	65.1	M16	UC212-36 212 212-38 212-39	PH212	
UCPH213-40 213	2-1/2	65	140	203	258	85	23	28	26	213	25.4	65.1	M20	UC213-40 213	PH213	
UCPH214-44 214	2-3/4	70	150	210	266	90	23	28	27	227	30.2	74.6	M20	UC214-44 214	PH214	
UCPH215-47 215 215-48	2-15/16 3	75	160	217	274	95	23	28	28	240	33.3	77.8	M20	UC215-47 215 215-48	PH215	
UCPH216		80	170	232	290	100	24	28	30	256	33.3	82.6	M20	UC216	PH216	



# TAPPED - BASE PILLOW BLOCKS

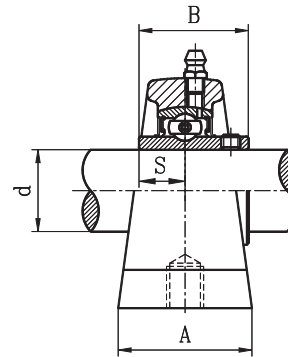
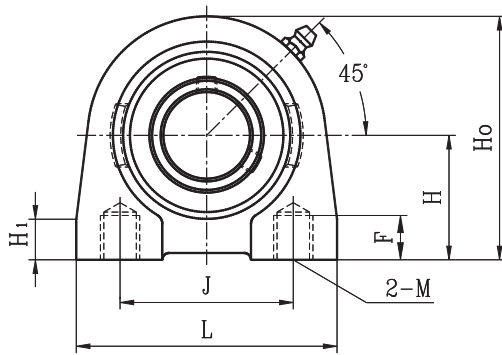


## UCPA2 Setscrew type

Unit No.	Shaft Dia.		Dimensions (mm)										Bearing No.	Housing No.	Mass (kg)
	d		H	L	J	A	H <sub>0</sub>	H <sub>1</sub>	S	B	F	M			
	(in.)	(mm)													
UCPA201S 201-8S 202S 202-10S 203S 203-11S	1/2 5/8 11/16	12 15 17	30.2	70	48	36	57	10	11.5	27.4	9	M8×1.25	UC201S 201-8S 202S 202-10S 203S 203-11S	PA203	--
UCPA201 201-8 202 202-10 203 203-11 204-12 204	1/2 5/8 11/16 3/4	12 15 17 20	30.2	76	52	40	62	11	12.7	31	13	M10×1.5	UC201 201-8 202 202-10 203 203-11 204-12 204	PA204	0.63
UCPA205-14 205-15 205 205-16	7/8 15/16 1	25	36.5	84	56	38	72	12	14.3	34	15	M10×1.5	UC205-14 205-15 205 205-16	PA205	0.8
UCPA206-18 206 206-19 206-20	1- 1/8 1- 3/16 1- 1/4	30	42.9	94	66	48	84	13	15.9	38.1	18	M14×2	UC206-18 206 206-19 206-20	PA206	1.2
UCPA207-20 207-21 207-22 207 207-23	1- 1/4 1- 5/16 1- 3/8 1-7/16	35	47.6	110	80	48	95	13	17.5	42.9	20	M14×2	UC207-20 207-21 207-22 207 207-23	PA207	1.7
UCPA208-24 208-25 208	1- 1/2 1- 9/16	40	49.2	116	84	54	100	13	19	49.2	20	M14×2	UC208-24 208-25 208	PA208	2.0
UCPA209-26 209-27 209-28 209	1- 5/8 1-11/16 1- 3/4	45	54.2	120	90	60	108	13	19	49.2	25	M14×2	UC209-26 209-27 209-28 209	PA209	2.2
UCPA210-30 210-31 210 210-32	1- 7/8 1-15/16 2	50	57.2	130	94	60	116	14	19	51.6	25	M16×2	UC210-30 210-31 210 210-32	PA210	2.8
UCPA211-32 211-34 211 211-35	2 2- 1/8 2- 3/16	55	63.5	140	104	66	125	14	22.2	55.6	25	M16×2	UC211-32 211-34 211 211-35	PA211	3.0
UCPA212-36 212 212-38 212-39	2- 1/4 2- 3/8 2- 7/16	60	69.9	150	114	68	138	15	25.4	65.1	25	M16×2	UC212-36 212 212-38 212-39	PA212	4.24
UCPA213-40 213	2- 1/2	65	76.2	160	124	70	150	15	25.4	65.1	25	M16×2	UC213-40 213	PA213	--



# TAPPED - BASE PILLOW BLOCKS

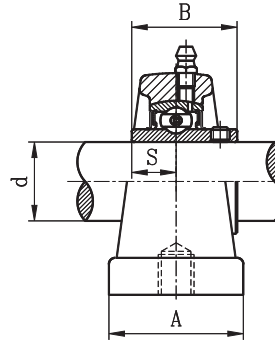
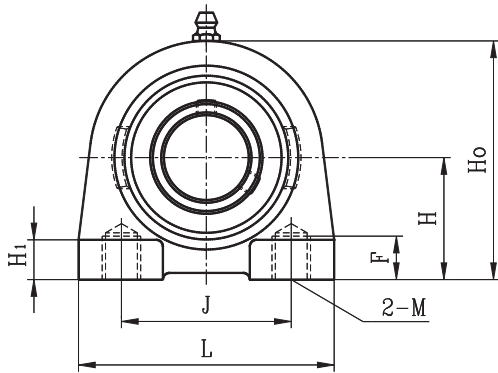


## UCPA2A Setscrew type

Unit No.	Shaft Dia.		Dimensions (mm)										Bearing No.	Housing No.	Mass (kg)
	d		H	L	J	A	Ho	H1	S	B	F	M			
	(in.)	(mm)													
UCPA201A 201-8A 202A 202-10A 203A 203-11A 204-12A 204A	1/2 5/8 11/16 3/4	12 15 17 20	33.3	73	50.8	38	65	12	12.7	31	13	3/8-16UNC	UC201 201-8 202 202-10 203 203-11 204-12 204	PA204A	0.63
UCPA205-14A 205-15A 205A 205-16A	7/8 15/16 1	25	36.5	76.2	50.8	38	71.4	12	14.3	34	13	3/8-16UNC	UC205-14 205-15 205 205-16	PA205A	0.80
UCPA206-18A 206A 206-19A 206-20A	1-1/8 1-3/16 1-1/4	30	42.9	101.6	76.2	38	85.7	15	15.9	38.1	16	7/16-14UNC	UC206-18 206 206-19 206-20	PA206A	1.2
UCPA207-20A 207-21A 207-22A 207A 207-23A	1-1/4 1-5/16 1-3/8 1-7/16	35	47.6	108	82.5	47.6	95.2	16	17.5	42.9	19	1/2-13UNC	UC207-20 207-21 207-22 207 207-23	PA207A	1.7
UCPA208-24A 208-25A 208A	1-1/2 1-9/16	40	49.2	117.5	88.9	47.6	100	16	19	49.2	19	1/2-13UNC	UC208-24 208-25 208	PA208A	2.0
UCPA209-26A 209-27A 209-28A 209A	1-5/8 1-11/16 1-3/4	45	53.98	127	95.25	50.8	108	18	19	49.2	19	1/2-13UNC	UC209-26 209-27 209-28 209	PA209A	2.2
UCPA210-30A 210-31A 210A 210-32A	1-7/8 1-15/16 2	50	57.15	139.7	101.6	50.8	117.5	18	19	51.6	25	5/8-11UNC	UC210-30 210-31 210 210-32	PA210A	2.8



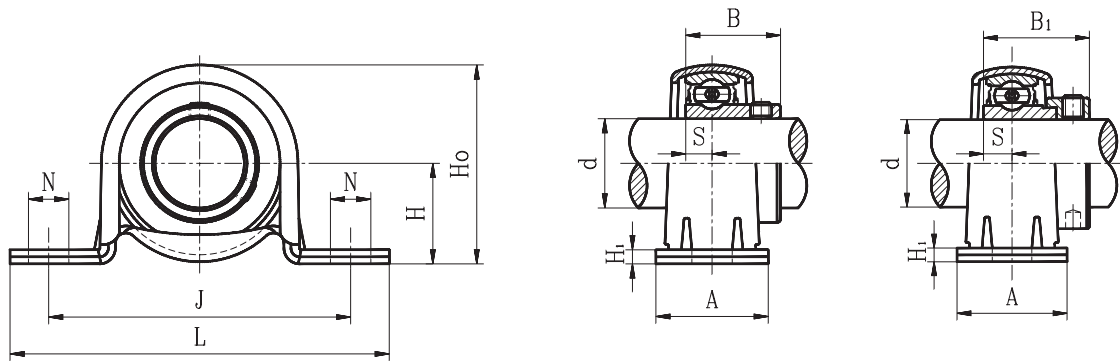
# TAPPED - BASE PILLOW BLOCKS



## UCPG2 Setscrew type

Unit No.	Shaft Dia.		Dimensions (mm)										Bearing No.	Housing No.	Mass (kg)		
	d		H	L	J	A	Ho	H1	S	B	F	M					
	(in.)	(mm)															
UCPG201		12															
201-8	1/2	15															
202	5/8	17	33.3	70	49	38	64	14	12.7	31	13	M8	UC201				
202-10																	
203	11/16	20															
203-11																	
204-12	3/4																
204																	
UCPG205-14	7/8																
205-15	15/16																
205		25	36.5	75	50	38	70	15	14.3	34	15	M10	UC205-14				0.80
205-16	1																
UCPG206-18	1- 1/8																
206		30															
206-19	1- 3/16		42.9	85	60	48	83	17	15.9	38.1	15	M10	UC206-18				1.2
206-20	1- 1/4																
UCPG207-20	1- 1/4																
207-21	1- 5/16																
207-22	1- 3/8																
207		35	47.6	100	68	48	93	20	17.5	42.9	19	M12	UC207-20				1.7
207-23	1-7/16																
UCPG208-24	1- 1/2																
208-25	1- 9/16																
208		40	49.2	110	78	54	98	20	19	49.2	19	M12	UC208-24				2.0





**SBPP2**  
Setscrew type

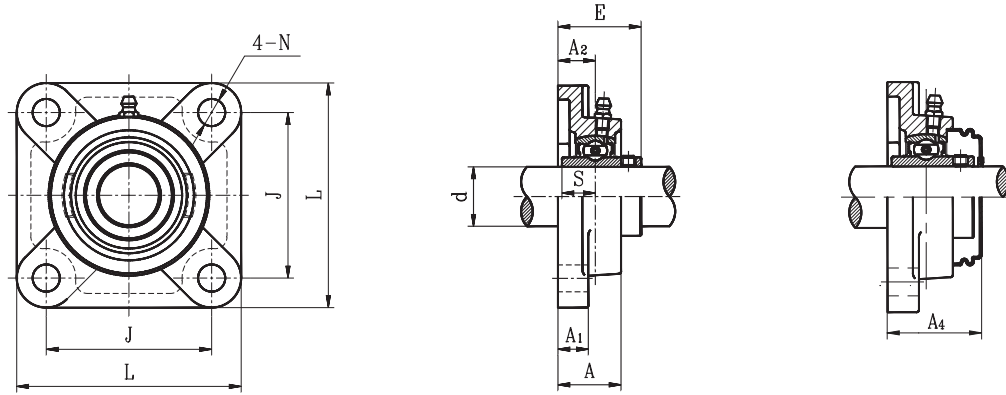
**SAPP2**  
Eccentric locking collar type

Unit No.	Shaft Dia.		Dimensions (mm)									Bolt Size	Bearing No.	Housing No.	Mass (kg)													
	d		H	J	L	A	N	H <sub>1</sub>	H <sub>0</sub>	S	B																	
	(in.)	(mm)																										
SBPP201 201-8 202 202-10 203 203-11	1/2 5/8 11/16	12 15 17	22.2	68	86	25	9.5	3	43.5	6	22	M8	SB201 201-8 202 202-10 203 203-11	PP203	0.15													
SBPP204-12 204	3/4	20														25.4	76	98	32	9.5	3	50.2	7	25	M8	SB204-12 204	PP204	0.2
SBPP205-14 205-15 205 205-16	7/8 15/16 1	25														28.6	86	108	32	11.5	4	56.4	7.5	27	M10	SB205-14 205-15 205 205-16	PP205	0.28
SBPP206-18 206 206-19 206-20	1-1/8 1-3/16 1-1/4	30	33.3	95	117	38	11.5	4	66.1	8	30	M10	SB206-18 206 206-19 206-20	PP206	0.42													
SBPP207-20 207-21 207-22 207 207-23	1-1/4 1-5/16 1-3/8 1-7/16	35	39.7	106	129	42	11.5	4	77.7	8.5	32	M10	SB207-20 207-21 207-22 207 207-23	PP207	0.55													

Unit No.	Shaft Dia.		Dimensions (mm)									Bolt Size	Bearing No.	Housing No.	Mass (kg)													
	d		H	J	L	A	N	H <sub>1</sub>	H <sub>0</sub>	S	B <sub>1</sub>																	
	(in.)	(mm)																										
SAPP201 201-8 202 202-10 203 203-11	1/2 5/8 11/16	12 15 17	22.2	68	86	25	9.5	3	43.5	6.5	28.6	M8	SA201 201-8 202 202-10 203 203-11	PP203	0.20													
SAPP204-12 204	3/4	20														25.4	76	98	32	9.5	3	50.2	7.5	30.9	M8	SA204-12 204	PP204	0.23
SAPP205-14 205-15 205 205-16	7/8 15/16 1	25														28.6	86	108	32	11.5	4	56.4	7.5	30.9	M10	SA205-14 205-15 205 205-16	PP205	0.32
SAPP206-18 206 206-19 206-20	1-1/8 1-3/16 1-1/4	30	33.3	95	117	38	11.5	4	66.1	9	35.7	M10	SA206-18 206 206-19 206-20	PP206	0.47													
SAPP207-20 207-21 207-22 207 207-23	1-1/4 1-5/16 1-3/8 1-7/16	35	39.7	106	129	42	11.5	4	77.7	9.5	38.9	M10	SA207-20 207-21 207-22 207 207-23	PP207	0.60													



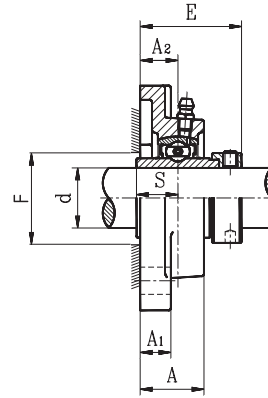
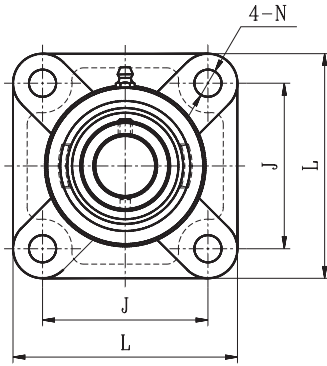
# SQUARE FLANGE UNITS



**UCF2**  
Setscrew type

**S-UCF200E1**  
**SM-UCF200E1**

Unit No.	Shaft Dia.		Dimensions (mm)									Bolt Size	Bearing No.	Housing No.	Mass (kg)	Available N
	d (in.)	d (mm)	L	J	A <sub>2</sub>	A <sub>1</sub>	A	E	N	S	A <sub>4</sub>					
UCF201S 201-8S 202 202-10S 203S 203-11S	1/2 5/8 11/16	12 15 17	76	54	15	11	24.5	30.9	11.5	11.5	--	M10	UC201S 201-8S 202S 202-10S 203S 203-11S	F203	0.52	--
UCF201 201-8 202 202-10 203 203-11 204-12 204	1/2 5/8 11/16 3/4	12 15 17 20	86	64	15	11	25.5	33.3	11.5	12.7	37.5	M10	UC201 201-8 202 202-10 203 203-11 204-12 204	F204	0.64	12
UCF205-14 205-15 205 205-16	7/8 15/16 1	25	95	70	16	13	27	35.7	11.5	14.3	40	M10	UC205-14 205-15 205 205-16	F205	0.80	12
UCF206-18 206 206-19 206-20	1-1/8 1-3/16 1-1/4	30	108	83	18	13	31	40.2	11.5	15.9	44	M10	UC206-18 206 206-19 206-20	F206	1.07	12
UCF207-20 207-21 207-22 207 207-23	1-1/4 1-5/16 1-3/8 1-7/16	35	117	92	19	15	34	44.4	14	17.5	48.5	M12	UC207-20 207-21 207-22 207 207-23	F207	1.40	--
UCF208-24 208-25 208	1-1/2 1-9/16	40	130	102	21	15	36	51.2	14	19	55	M12	UC208-24 208-25 208	F208	1.80	16
UCF209-26 209-27 209-28 209	1-5/8 1-11/16 1-3/4	45	137	105	22	16	38	52.2	16	19	57	M14	UC209-26 209-27 209-28 209	F209	2.20	--
UCF210-30 210-31 210	1-7/8 1-15/16	50	143	111	22	16	40	54.6	18	19	60	M16	UC210-30 210-31 210	F210	2.40	16
UCF211-32 211-34 211 211-35	2 2-1/8 2-3/16	55	162	130	25	18	43	58.4	18	22.2	64	M16	UC211-32 211-34 211 211-35	F211	3.50	19
UCF212-36 212 212-38 212-39	2-1/4 2-3/8 2-7/16	60	175	143	29	18	48	68.7	18	25.4	74.5	M16	UC212-36 212 212-38 212-39	F212	4.20	19
UCF213-40 213	2-1/2	65	187	149	30	22	50	69.7	18	25.4	79	M16	UC213-40 213	F213	5.30	19
UCF214-44 214	2-3/4	70	193	152	31	22	54	75.4	18	30.2	--	M16	UC214-44 214	F214	5.90	19
UCF215-47 215 215-48	2-15/16 3	75	200	159	34	22	56	78.5	18	33.3	--	M16	UC215-47 215 215-48	F215	6.30	19
UCF216		80	208	165	34	22	57	83.3	22	33.3	--	M20	UC216	F216	7.30	23
UCF217-52 217	3-1/4	85	220	175	36	24	63	87.6	23	34.1	--	M20	UC217-52 217	F217	8.90	
UCF218-56 218	3-1/2	90	235	187	40	25	68	96.3	23	39.7	--	M20	UC218-56 218	F218	11.6	
UCF220 220-64	4	100	265	210	44	25	70	110	27	42	--	M22	UC220 220-64	F220		

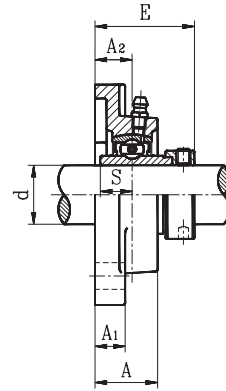
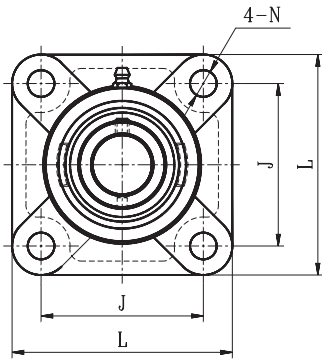


**NAF2**  
Eccentric locking collar type

Unit No.	Shaft Dia.		Dimensions (mm)									Bolt Size	Bearing No.	Housing No.	Mass (kg)	Available N
	d		L	J	A <sub>2</sub>	A <sub>1</sub>	A	E	N	S	F min					
	(in.)	(mm)														
NAF201S 201-8S 202S 202-10S 203S 203-11S	1/2 5/8 11/16	12 15 17	76	54	15	11	24.5	38.4	11.5	13.9	--	M10	NA201S 201-8S 202S 202-10S 203S 203-11S	F203	0.5	--
NAF201 201-8 202 202-10 203 203-11 204-12 204	1/2 5/8 11/16 3/4	12 15 17 20	86	64	15	11	25.5	41.5	11.5	17	31	M10	NA201 201-8 202 202-10 203 203-11 204-12 204	F204	0.66	12
NAF205-14 205-15 205 205-16	7/8 15/16 1	25	95	70	16	13	27	42.9	11.5	17.4	36	M10	NA205-14 205-15 205 205-16	F205	0.80	12
NAF206-18 206 206-19 206-20	1-1/8 1-3/16 1-1/4	30	108	83	18	13	31	48.1	11.5	18.2	42	M10	NA206-18 206 206-19 206-20	F206	1.2	12
NAF207-20 207-21 207-22 207 207-23	1-1/4 1-5/16 1-3/8 1-7/16	35	117	92	19	15	34	51.3	14	18.8	50	M12	NA207-20 207-21 207-22 207 207-23	F207	1.6	--
NAF208-24 208-25 208	1-1/2 1-9/16	40	130	102	21	15	36	55.9	14	21.4	55	M12	NA208-24 208-25 208	F208	1.9	16
NAF209-26 209-27 209-28 209	1-5/8 1-11/16 1-3/4	45	137	105	22	16	38	56.9	16	21.4	--	M14	NA209-26 209-27 209-28 209	F209	2.30	--
NAF210-30 210-31 210	1-7/8 1-15/16	50	143	111	22	16	40	60.1	18	24.6	64	M16	NA210-30 210-31 210	F210	2.60	16
NAF211-32 211-34 211 211-35	2 2-1/8 2-3/16	55	162	130	25	18	43	68.6	18	27.7	71	M16	NA211-32 211-34 211 211-35	F211	3.80	19
NAF212-36 212 212-38 212-39	2-1/4 2-3/8 2-7/16	60	175	143	29	18	48	75.8	18	30.9	77	M16	NA212-36 212 212-38 212-39	F212	4.80	19
NAF213-40 213	2-1/2	65	187	149	30	22	50	81.6	18	34.1	84	M16	NA213-40 213	F213	6.0	19
NAF214-44 214	2-3/4	70	193	152	31	22	54	82.6	18	34.1	89	M16	NA214-44 214	F214	6.3	19
NAF215 215-48	3	75	200	159	34	22	56	88.8	18	37.3	94	M16	NA215 215-48	F215	7.2	19
NAF216		80	208	165	34	22	57	91.9	22	37.3	101	M20	NA216	F216	7.23	23
NAF217-52 217	3-1/4	85	220	175	36	24	63	85.8	23	23.4	--	M20	NA217-52 217	F217		
NAF218-56 218	3-1/2	90	235	187	40	25	68	88	23	24.5	--	M20	NA218-56 218	F218		

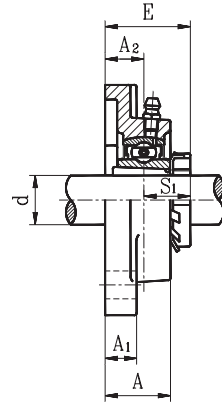
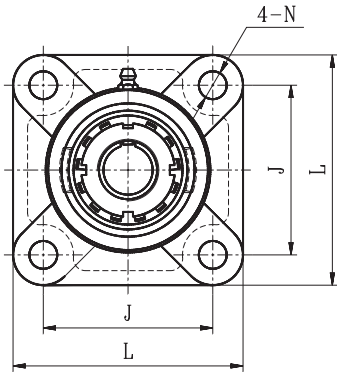


# SQUARE FLANGE UNITS



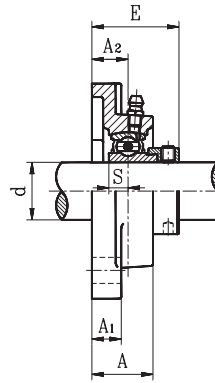
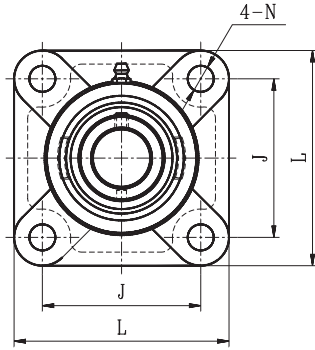
## NAFU2 Eccentric locking collar type

Unit No.	Shaft Dia.		Dimensions (mm)								Bolt Size	Bearing No.	Housing No.	Mass (kg)
	d (in.)	d (mm)	L	J	A <sub>2</sub>	A <sub>1</sub>	A	E	N	S				
NAFU201S 201-8S 202S 202-10S 203S 203-11S	1/2 5/8 11/16	12 15 17	76	54	15	11	24.5	38.4	11.5	13.9	M10	NA201S 201-8S 202S 202-10S 203S 203-11S	FU203	0.66
NAFU201 201-8 202 202-10 203 203-11 204-12 204	1/2 5/8 11/16 3/4	12 15 17 20	86	63.5	19	15	29.5	45.5	11.5	17	M10	NA201 201-8 202 202-10 203 203-11 204-12 204	FU204	0.8
NAFU205-14 205-15 205 205-16	7/8 15/16 1	25	93	70	19	15	30	45.9	11.5	17.4	M10	NA205-14 205-15 205 205-16	FU205	0.95
NAFU206-18 206 206-19 206-20	1-1/8 1-3/16 1-1/4	30	106	82.5	20	16	32.5	50.1	11.5	18.2	M10	NA206-18 206 206-19 206-20	FU206	1.32
NAFU207-20 207-21 207-22 207 207-23	1-1/4 1-5/16 1-3/8 1-7/16	35	116	92	21	17	35	53.3	14	18.8	M12	NA207-20 207-21 207-22 207 207-23	FU207	1.77
NAFU208-24 208-25 208	1-1/2 1-9/16	40	129	101.5	24	17	39	58.9	14	21.4	M12	NA208-24 208-25 208	FU208	2.22
NAFU209-26 209-27 209-28 209	1-5/8 1-11/16 1-3/4	45	135	105	24	18	40	58.9	16	21.4	M14	NA209-26 209-27 209-28 209	FU209	2.63
NAFU210-30 210-31 210	1-7/8 1-15/16	50	143	111	28	20	45	66.1	18	24.6	M16	NA210-30 210-31 210	FU210	2.95
NAFU211-32 211-34 211 211-35	2 2-1/8 2-3/16	55	162	130	31	21	49	74.6	18	27.7	M16	NA211-32 211-34 211 211-35	FU211	4.10
NAFU212-36 212 212-38 212-39	2-1/4 2-3/8 2-7/16	60	175	143	34	22	53.5	80.8	18	30.9	M16	NA212-36 212 212-38 212-39	FU212	4.86
NAFU213-40 213	2-1/2	65	184	149	38	22	58	89.6	18	34.1	M16	NA213-40 213	FU213	5.90
NAFU214-44 214	2-3/4	70	188	152	38	23	60	89.6	18	34.1	M16	NA214-44 214	FU214	6.45
NAFU215 215-48	3	75	200	159	41	24	62	95.8	18	37.3	M16	NA215 215-48	FU215	7.55
NAFU216		80	207	165	42	25	63	99.9	22	37.3	M20	NA216	FU216	8.65



## UKF2+H Tapered bore, adapter type

Unit No.	Shaft Dia.		Dimensions (mm)								Bolt Size	Bearing No.	Housing No.	Adapter No.	Mass (kg)	Available N
	d		L	J	A <sub>2</sub>	A <sub>1</sub>	A	E	N	S <sub>1</sub>						
	(in.)	(mm)														
UKF205+HE2305 205+H2305	3/4	20	95	70	16	13	27	34.5	11.5	18.5	M10	UK205	F205	HE2305 H2305	0.84	12
UKF206+HS2306 206+HA2306 206+H2306 206+HE2306	7/8 15/16 1	25	108	83	18	13	31	38.5	11.5	20.5	M10	UK206	F206	HS2306 HA2306 H2306 HE2306	1.1	12
UKF207+HS2307 207+H2307 207+HA2307	1-1/8 1-3/16	30	117	92	19	15	34	41.5	14	22.5	M12	UK207	F207	HS2307 H2307 HA2307	1.6	--
UKF208+HE2308 208+HS2308 208+H2308	1-1/4 1-3/8	35	130	102	21	15	36	45.5	14	24.5	M12	UK208	F208	HE2308 HS2308 H2308	1.9	16
UKF209+HA2309 209+HE2309 209+H2309	1-7/16 1-1/2	40	137	105	22	16	38	48	16	26	M14	UK209	F209	HA2309 HE2309 H2309	2.3	--
UKF210+HS2310 210+HA2310 210+HE2310 210+H2310	1-5/8 1-11/16 1-3/4	45	143	111	22	16	40	49.5	18	27.5	M16	UK210	F210	HS2310 HA2310 HE2310 H2310	2.6	16
UKF211+HS2311 211+HA2311 211+H2311 211+HE2311	1-7/8 1-15/16 2	50	162	130	25	18	43	53.5	18	28.5	M16	UK211	F211	HS2311 HA2311 H2311 HE2311	3.4	19
UKF212+HS2312 212+H2312	2-1/8	55	175	143	29	18	48	60	18	31	M16	UK212	F212	HS2312 H2312	4.1	19
UKF213+HA2313 213+HE2313 213+H2313 213+HS2313	2-3/16 2-1/4 2-3/8	60	187	149	30	22	50	62	18	32	M16	UK213	F213	HA2313 HE2313 H2313 HS2313	5.5	19
UKF215+HA2315 215+HE2315 215+H2315	2-7/16 2-1/2	65	200	159	34	22	56	69.5	18	35.5	M16	UK215	F215	HA2315 HE2315 H2315	6.7	19
UKF216+HA2316 216+HE2316 216+H2316	2-11/16 2-3/4	70	208	165	34	22	57	73	22	39	M20	UK216	F216	HA2316 HE2316 H2316	7.5	23
UKF217+HA2317 217+H2317 217+HE2317	2-15/16 3	75	220	175	36	24	63	76	23	40	M20	UK217	F217	HA2317 H2317 HE2317		
UKF218+H2318		80	235	187	40	25	68	82	23	42	M20	UK218	F218	H2318		

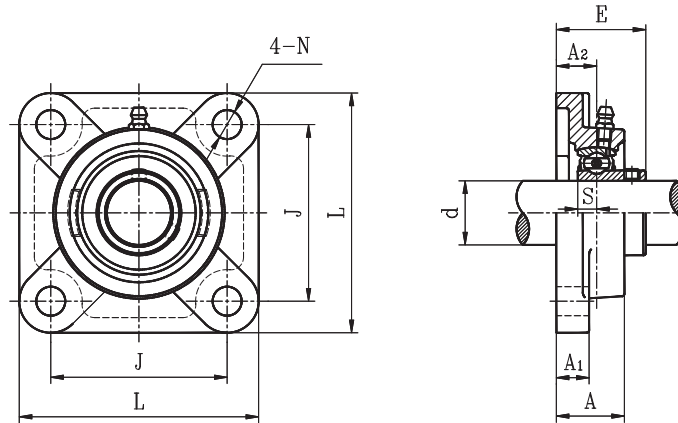


## SAF2G Eccentric locking collar type

Unit No.	Shaft Dia.		Dimensions (mm)								Bolt Size	Bearing No.	Housing No.	Mass (kg)	Available
	d		L	J	A <sub>2</sub>	A <sub>1</sub>	A	E	N	S					
	(in.)	(mm)													
SAF201G 201-8G 202G 202-10G 203G 203-11G	1/2	12 15 17	76	54	15	11	24.5	37.1	11.5	6.5	M10	SA201G 201-8G 202G 202-10G 203G 203-11G	F203	0.43	--
	5/8													0.43	
	11/16													0.42	
														0.42	
														0.42	
SAF204-12G 204G	3/4	20	86	64	15	11	25.5	38.4	11.5	7.5	M10	SA204-12G 204G	F204	0.55 0.58	12
SAF205-14G 205-15G 205G 205-16G	7/8 15/16 1	25	95	70	16	13	27	39.4	11.5	7.5	M10	SA205-14G 205-15G 205G 205-16G	F205	0.74 0.73 0.71 0.70	12
SAF206-18G 206G 206-19G 206-20G	1-1/8 1-3/16 1-1/4	30	108	83	18	13	31	44.7	11.5	9	M10	SA206-18G 206G 206-19G 206-20G	F206	1.08 1.06 1.04 1.01	12
SAF207-20G 207-21G 207-22G 207G 207-23G	1-1/4 1-5/16 1-3/8 1-7/16	35	117	92	19	15	34	48.4	14	9.5	M12	SA207-20G 207-21G 207-22G 207G 207-23G	F207	1.46 1.43 1.41 1.40 1.38	--
SAF208-24G 208-25G 208G	1-1/2 1-9/16	40	130	102	21	15	36	53.7	14	11	M12	SA208-24G 208-25G 208G	F208	1.8 1.79 1.77	16
SAF209-26G 209-27G 209-28G 209G	1-5/8 1-11/16 1-3/4	45	137	105	22	16	38	54.7	16	11	M14	SA209-26G 209-27G 209-28G 209G	F209	2.2 2.14 2.11 2.07	-
SAF210-30G 210-31G 210G	1-7/8 1-15/16	50	143	111	22	16	40	54.7	18	11	M16	SA210-30G 210-31G 210G	F210	2.45 2.43 2.40	16
SAF211-32G 211-34G 211G 211-35G	2 2-1/8 2-3/16	55	162	130	25	18	43	61.4	18	12	M16	SA211-32G 211-34G 211G 211-35G	F211	3.18 2.96 2.87 2.81	19
SAF212-36G 212G 212-38G 212-39G	2-1/4 2-3/8 2-7/16	60	175	143	29	18	48	66.3	18	12	M16	SA212-36G 212G 212-38G 212-39G	F212	3.97 3.87 3.8 3.76	19



# SQUARE FLANGE UNITS

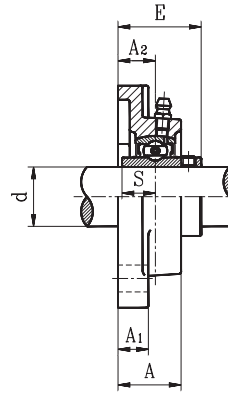
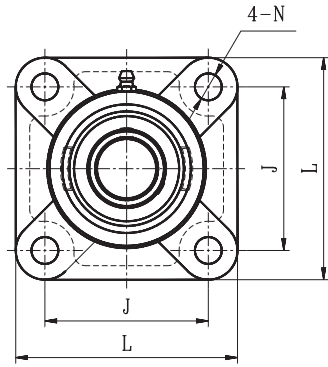


## SBF2G Setscrew type

Unit No.	Shaft Dia.		Dimensions (mm)								Bolt Size	Bearing No.	Housing No.	Mass (kg)	Available
	d		L	J	A <sub>2</sub>	A <sub>1</sub>	A	E	N	S					
	(in.)	(mm)													
SBF201G 201-8G 202G 202-10G 203G 203-11G	1/2 5/8 11/16	12 15 17	76	54	15	11	24.5	31	11.5	6	M10	SB201G 201-8G 202G 202-10G 203G 203-11G	F203	0.39 0.39 0.38 0.38 0.38 0.38	--
SBF204-12G 204G	3/4	20	86	64	15	11	25.5	33	11.5	7	M10	SB204-12G 204G	F204	0.52 0.56	12
SBF205-14G 205-15G 205G 205-16G	7/8 15/16 1	25	95	70	16	13	27	35.5	11.5	7.5	M10	SB205-14G 205-15G 205G 205-16G	F205	0.71 0.71 0.70 0.68	12
SBF206-18G 206G 206-19G 206-20G	1-1/8 1-3/16 1-1/4	30	108	83	18	13	31	40	11.5	8	M10	SB206-18G 206G 206-19G 206-20G	F206	1.00 0.98 0.97 0.96	12
SBF207-20G 207-21G 207-22G 207G 207-23G	1-1/4 1-5/16 1-3/8 1-7/16	35	117	92	19	15	34	42.5	14	8.5	M12	SB207-20G 207-21G 207-22G 207G 207-23G	F207	1.33 1.31 1.28 1.32 1.27	--
SBF208-24G 208-25G 208G	1-1/2 1-9/16	40	130	102	21	15	36	46	14	9	M12	SB208-24G 208-25G 208G	F208	1.72 1.70 1.72	16
SBF209-26G 209-27G 209-28G 209G	1-5/8 1-11/16 1-3/4	45	137	105	22	16	38	53	16	10.2	M14	SB209-26G 209-27G 209-28G 209G	F209	2.27	-
SBF210-30G 210-31G 210G	1-7/8 1-15/16	50	143	111	22	16	40	54.6	18	10.9	M16	SB210-30G 210-31G 210G	F210	2.38	16
SBF211-32G 211-34G 211G 211-35G	2 2-1/8 2-3/16	55	162	130	25	18	43	58.5	18	11.8	M16	SB211-32G 211-34G 211G 211-35G	F211	3.44	19
SBF212-36G 212G 212-38G 212-39G	2-1/4 2-3/8 2-7/16	60	175	143	29	18	48	67.8	18	14.9	M16	SB212-36G 212G 212-38G 212-39G	F212	3.96	19



# SQUARE FLANGE UNITS



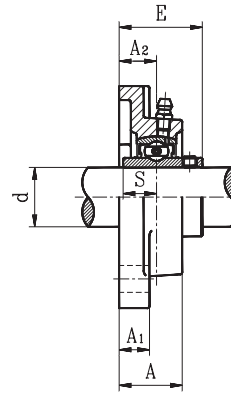
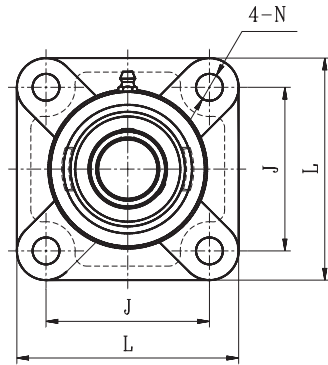
## UCFX Setscrew type

Unit No.	Shaft Dia.		Dimensions (mm)								Bolt Size	Bearing No.	Housing No.	Mass (kg)
	d		L	J	A <sub>2</sub>	A <sub>1</sub>	A	E	N	S				
	(in.)	(mm)												
UCFX05-14 X05-15 X05 X05-16	7/8 15/16 1	25	108	82.5	18	13	30	40.2	11.5	15.9	M10	UCX05-14 X05-15 X05 X05-16	FX05	1.2
UCFX06-18 X06 X06-19 X06-20	1-1/8 1-3/16 1-1/4	30	117	92	19	14	34	44.4	13	17.5	M12	UCX06-18 X06 X06-19 X06-20	FX06	1.6
UCFX07-22 X07 X07-23	1-3/8 1-7/16	35	130	101.5	21	14	38	51.2	13	19	M12	UCX07-22 X07 X07-23	FX07	2.0
UCFX08-24 X08-25 X08	1-1/2 1-9/16	40	137	105	22	14	40	52.2	15	19	M14	UCX08-24 X08-25 X08	FX08	2.4
UCFX09-26 X09-27 X09-28 X09	1-5/8 1-11/16 1-3/4	45	143	111	23	14	40	55.6	15	19	M14	UCX09-26 X09-27 X09-28 X09	FX09	2.7
UCFX10-30 X10-31 X10 X10-32	1-7/8 1-15/16 2	50	162	130	26	20	44	59.4	17	22.2	M16	UCX10-30 X10-31 X10 X10-32	FX10	3.7
UCFX11-34 X11 X11-35 X11-36	2-1/8 2-3/16 2-1/4	55	175	143	29	20	49	68.7	17	25.4	M16	UCX11-34 X11 X11-35 X11-36	FX11	4.9
UCFX12 X12-38 X12-39	2-3/8 2-7/16	60	187	149	34	21	57	73.7	17	25.4	M16	UCX12 X12-38 X12-39	FX12	5.7
UCFX13-40 X13	2-1/2	65	187	149	34	21	59	78.4	17	30.2	M16	UCX13-40 X13	FX13	6.3
UCFX14-44 X14	2-3/4	70	197	152	37	24	60	81.5	20	33.3	M18	UCX14-44 X14	FX14	7.0
UCFX15 X15-48	3	75	197	152	40	24	68	89.3	20	33.3	M18	UCX15 X15-48	FX15	8.4
UCFX16		80	214	171	40	24	70	91.6	20	34.1	M18	UCX16	FX16	9.4
UCFX17-52 X17	3-1/4	85	214	171	40	24	70	96.3	20	39.7	M18	UCX17-52 X17	FX17	10.8
UCFX18-56 X18	3-1/2	90	214	171	45	24	76	106.1	23	42.9	M20	UCX18-56 X18	FX18	11.9
UCFX20 X20-64	4	100	268	211	59	31	97	127.3	31	49.2	M27	UCX20 X20-64	FX20	19.4



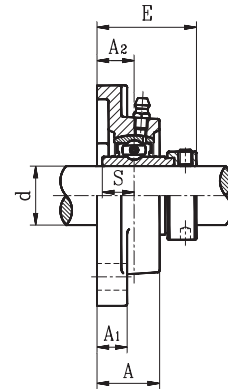
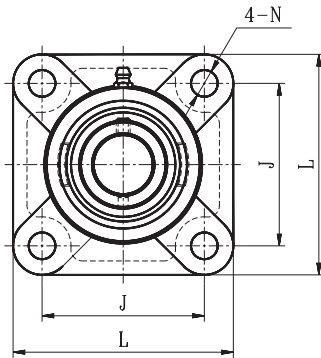


# SQUARE FLANGE UNITS



## UCF3 Setscrew type

Unit No.	Shaft Dia.		Dimensions (mm)								Bolt Size	Bearing No.	Housing No.	Mass (kg)
	d		L	J	A <sub>2</sub>	A <sub>1</sub>	A	E	N	S				
	(in.)	(mm)												
UCF305-14 305-15 305 305-16	7/8 15/16 1	25	108	80	16	13	29	39	16	15	M14	UC305-14 305-15 305 305-16	F305	1.2
UCF306-18 306 306-19	1-1/8 1-3/16	30	125	95	18	15	32	44	16	17	M14	UC306-18 306 306-19	F306	1.8
UCF307-20 307-21 307-22 307	1-1/4 1-5/16 1-3/8	35	135	100	20	16	36	49	19	19	M16	UC307-20 307-21 307-22 307	F307	2.2
UCF308-24 308-25 308	1-1/2 1-9/16	40	150	112	23	17	40	56	19	19	M16	UC308-24 308-25 308	F308	2.9
UCF309-26 309-27 309-28 309	1-5/8 1-11/16 1-3/4	45	160	125	25	18	44	60	19	22	M16	UC309-26 309-27 309-28 309	F309	3.5
UCF310-30 310-31 310	1-7/8 1-15/16	50	175	132	28	20	48	67	23	22	M20	UC310-30 310-31 310	F310	4.8
UCF311-32 311-34 311 311-35	2 2-1/8 2-3/16	55	185	140	30	20	52	71	23	25	M20	UC311-32 311-34 311 311-35	F311	5.6
UCF312-36 312 312-38 312-39	2-1/4 2-3/8 2-7/16	60	193	150	33	22	56	78	23	26	M20	UC312-36 312 312-38 312-39	F312	6.7
UCF313-40 313	2-1/2	65	208	166	33	22	58	78	23	30	M20	UC313-40 313	F313	7.8
UCF314-44 314	2-3/4	70	226	178	36	25	61	81	25	31	M22	UC314-44 314	F314	10.1
UCF315 315-48	3	75	236	184	39	25	66	89	25	32	M22	UC315 315-48	F315	11.1
UCF316		80	250	196	38	27	68	90	31	34	M27	UC316	F316	12.8
UCF317-52 317	3-1/4	85	260	204	44	27	74	100	31	40	M27	UC317-52 317	F317	15.4
UCF318-56 318	3-1/2	90	280	216	44	30	76	100	35	40	M30	UC318-56 318	F318	19.0
UCF319 319-60	3-3/4	95	290	228	59	30	94	121	35	41	M30	UC319 319-60	F319	20.6
UCF320 320-64	4	100	310	242	59	32	94	125	38	42	M33	UC320 320-64	F320	25.7
UCF322		110	340	266	60	35	96	131	41	46	M36	UC322	F322	38
UCF324		120	370	290	65	40	110	140	41	51	M36	UC324	F324	50
UCF326		130	410	320	65	45	115	146	41	54	M36	UC326	F326	66
UCF328		140	450	350	75	55	125	161	41	59	M36	UC328	F328	90

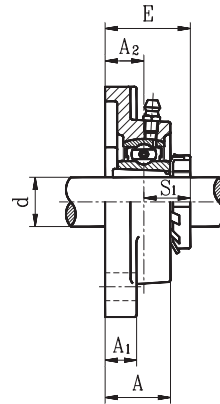
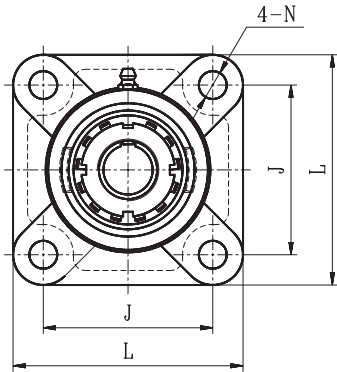


## NAF3 Eccentric locking collar type

Unit No.	Shaft Dia.		Dimensions (mm)								Bolt Size	Bearing No.	Housing No.	Mass (kg)
	d		L	J	A <sub>2</sub>	A <sub>1</sub>	A	E	N	S				
	(in.)	(mm)												
NAF305-14 305-15 305 305-16	7/8 15/16 1	25	108	80	16	13	29	46.1	16	16.7	M14	NA305-14 305-15 305 305-16	F305	1.2
NAF306-18 306 306-19	1-1/8 1-3/16	30	125	95	18	15	32	50.5	16	17.5	M14	NA306-18 306 306-19	F306	1.7
NAF307-20 307-21 307-22 307	1-1/4 1-5/16 1-3/8	35	135	100	20	16	36	53.3	19	18.3	M16	NA307-20 307-21 307-22 307	F307	2.0
NAF308-24 308-25 308	1-1/2 1-9/16	40	150	112	23	17	40	60.3	19	19.8	M16	NA308-24 308-25 308	F308	2.8
NAF309-26 309-27 309-28 309	1-5/8 1-11/16 1-3/4	45	160	125	25	18	44	63.9	19	19.8	M16	NA309-26 309-27 309-28 309	F309	3.6
NAF310-30 310-31 310	1-7/8 1-15/16	50	175	132	28	20	48	70	23	24.6	M20	NA310-30 310-31 310	F310	4.7
NAF311-32 311-34 311 311-35	2 2-1/8 2-3/16	55	185	140	30	20	52	75.2	23	27.8	M20	NA311-32 311-34 311 311-35	F311	5.7
NAF312-36 312 312-38 312-39	2-1/4 2-3/8 2-7/16	60	193	150	33	22	56	81.45	23	30.95	M20	NA312-36 312 312-38 312-39	F312	6.8
NAF313-40 313	2-1/2	65	208	166	33	22	58	86.2	23	32.5	M20	NA313-40 313	F313	8.3
NAF314-44 314	2-3/4	70	226	178	36	25	61	93.95	25	34.15	M22	NA314-44 314	F314	10.7
NAF315 315-48	3	75	236	184	39	25	66	101.7	25	37.3	M22	NA315 315-48	F315	12.24
NAF316		80	250	196	38	27	68	103.9	31	40.5	M27	NA316	F316	16
NAF317-52 317	3-1/4	85	260	204	44	27	74	111.5	31	42	M27	NA317-52 317	F317	17
NAF318-56 318	3-1/2	90	280	216	44	30	76	116.3	35	43.6	M30	NA318-56 318	F318	21
NAF319 319-60	3-3/4	95	290	228	59	30	94	134.5	35	46.8	M30	NA319 319-60	F319	23
NAF320 320-64	4	100	310	242	59	32	94	137.6	38	50	M33	NA320 320-64	F320	28



# SQUARE FLANGE UNITS

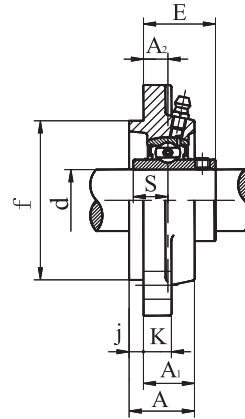
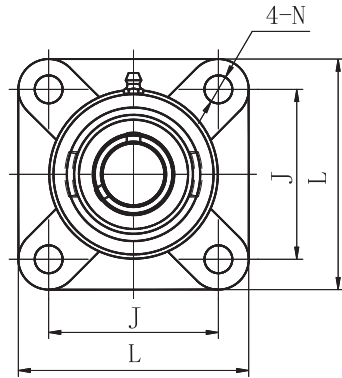


## UKF3+H Tapered bore, adapter type

Unit No.	Shaft Dia.		Dimensions (mm)								Bolt Size	Bearing No.	Housing No.	Adapter No.	Mass (kg)
	d		L	J	A <sub>2</sub>	A <sub>1</sub>	A	E	N	S <sub>1</sub>					
	(in.)	(mm)													
UKF305+HE2305 305+H2305	3/4	20	108	80	16	13	29	37.5	16	21.5	M14	UK305	F305	HE2305 H2305	1.2
UKF306+HS2306 306+HA2306 306+H2306 306+HE2306	7/8 15/16 1	25	125	95	18	15	32	41	16	23	M14	UK306	F306	HS2306 HA2306 H2306 HE2306	1.8
UKF307+HS2307 307+H2307 307+HA2307	1-1/8 1-3/16	30	135	100	20	16	36	45.5	19	25.5	M16	UK307	F307	HS2307 H2307 HA2307	2.2
UKF308+HE2308 308+HS2308 308+H2308	1-1/4 1-3/8	35	150	112	23	17	40	50.5	19	27.5	M16	UK308	F308	HE2308 HS2308 H2308	2.9
UKF309+HA2309 309+HE2309 309+H2309	1-7/16 1-1/2	40	160	125	25	18	44	55	19	30	M16	UK309	F309	HA2309 HE2309 H2309	3.5
UKF310+HS2310 310+HA2310 310+HE2310 310+H2310	1-5/8 1-11/16 1-3/4	45	175	132	28	20	48	60	23	32	M20	UK310	F310	HS2310 HA2310 HE2310 H2310	4.8
UKF311+HS2311 311+HA2311 311+H2311 311+HE2311	1-7/8 1-15/16 2	50	185	140	30	20	52	63.5	23	33.5	M20	UK311	F311	HS2311 HA2311 H2311 HE2311	5.6
UKF312+HS2312 312+H2312	2-1/8	55	193	150	33	22	56	69.5	23	36.5	M20	UK312	F312	HS2312 H2312	6.7
UKF313+HA2313 313+HE2313 313+H2313 313+HS2313	2-3/16 2-1/4 2-3/8	60	208	166	33	22	58	71.5	23	38.5	M20	UK313	F313	HA2313 HE2313 H2313 HS2313	7.8
UKF315+HA2315 315+HE2315 315+H2315	2-7/16 2-1/2	65	236	184	39	25	66	81.5	25	42.5	M22	UK315	F315	HA2315 HE2315 H2315	12
UKF216+HA2316 216+HE2316 216+H2316	2-11/16 2-3/4	70	250	196	38	27	68	82.5	31	44.5	M27	UK316	F316	HA2316 HE2316 H2316	15
UKF317+HA2317 317+H2317 317+HE2317	2-15/16 3	75	260	204	44	27	74	92	31	48	M27	UK317	F317	HA2317 H2317 HE2317	16
UKF318+H2318		80	280	216	44	30	76	92	35	48	M30	UK318	F318	H2318	20
UKF319+HE2319 319+H2319	3-1/4	85	290	228	59	30	94	111	35	52	M30	UK319	F319	HE2319 H2319	22
UKF320+HE2320 320+H2320	3-1/2	90	310	242	59	32	94	113	38	54	M33	UK320	F320	HE2320 H2320	26



# SQUARE FLANGE CARTRIDGE UNITS

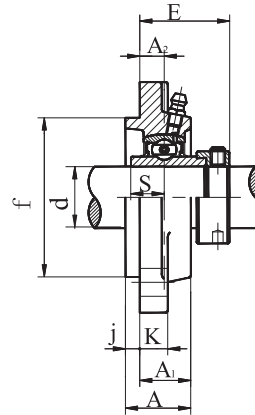
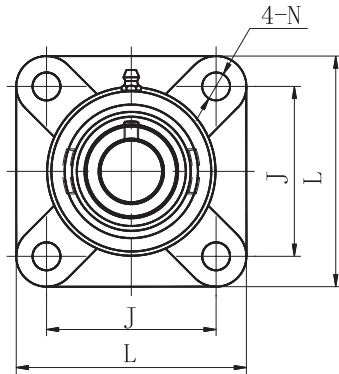


## UCFS3 Setscrew type

Unit No.	Shaft Dia.		Dimensions (mm)											Bolt Size	Bearing No.	Housing No.	Mass (kg)
	d		L	J	A <sub>2</sub>	A <sub>1</sub>	A	j	K	N	f	S	E				
	(in.)	(mm)															
UCFS305-14 305-15 305 305-16	7/8 15/16 1	25	110	80	9	22	29	7	13	16	80	15	32	M14	UC305-14 305-15 305 305-16	FS305	1.3
UCFS306-18 306 306-19	1-1/8 1-3/16	30	125	95	10	24	32	8	15	16	90	17	36	M14	UC306-18 306 306-19	FS306	1.9
UCFS307-20 307-21 307-22 307	1-1/4 1-5/16 1-3/8	35	135	100	11	27	36	9	16	19	100	19	40	M16	UC307-20 307-21 307-22 307	FS307	2.4
UCFS308-24 308-25 308	1-1/2 1-9/16	40	150	112	13	30	40	10	17	19	115	19	46	M16	UC308-24 308-25 308	FS308	3.3
UCFS309-26 309-27 309-28 309	1-5/8 1-11/16 1-3/4	45	160	125	14	33	44	11	18	19	125	22	49	M16	UC309-26 309-27 309-28 309	FS309	4.0
UCFS310-30 310-31 310	1-7/8 1-15/16	50	175	132	16	36	48	12	19	23	140	22	55	M20	UC310-30 310-31 310	FS310	5.3
UCFS311-32 311-34 311 311-35	2 2-1/8 2-3/16	55	185	140	17	39	52	13	20	23	150	25	58	M20	UC311-32 311-34 311 311-35	FS311	6.2
UCFS312-36 312 312-38 312-39	2-1/4 2-3/8 2-7/16	60	195	150	19	42	56	14	22	23	160	26	64	M20	UC312-36 312 312-38 312-39	FS312	7.2
UCFS313-40 313	2-1/2	65	208	166	15	40	58	18	22	23	175	30	60	M20	UC313-40 313	FS313	8.9
UCFS314-44 314	2-3/4	70	226	178	18	43	61	18	25	25	185	31	65	M22	UC314-44 314	FS314	11
UCFS315 315-48	3	75	236	184	21	48	66	18	25	25	200	32	71	M22	UC315 315-48	FS315	13
UCFS316		80	250	196	18	48	68	20	27	31	210	34	70	M27	UC316	FS316	15
UCFS317-52 317	3-1/4	85	260	204	24	54	74	20	27	31	220	40	80	M27	UC317-52 317	FS317	17
UCFS318-56 318	3-1/2	90	280	216	24	56	76	20	30	35	240	40	80	M30	UC318-56 318	FS318	21
UCFS319 319-60	3-3/4	95	290	228	39	74	94	20	30	35	250	41	101	M30	UC319 319-60	FS319	25
UCFS320 320-64	4	100	310	242	39	74	94	20	32	38	260	42	105	M33	UC320 320-64	FS320	30
UCFS322		110	340	266	35	71	96	25	35	41	300	46	106	M36	UC322	FS322	39
UCFS324		120	370	290	35	80	110	30	40	41	330	51	110	M36	UC324	FS324	54
UCFS326		130	410	320	35	85	115	30	45	41	360	54	116	M36	UC326	FS326	71
UCFS328		140	450	350	45	95	125	30	55	41	400	59	131	M36	UC328	FS328	100



# SQUARE FLANGE CARTRIDGE UNITS

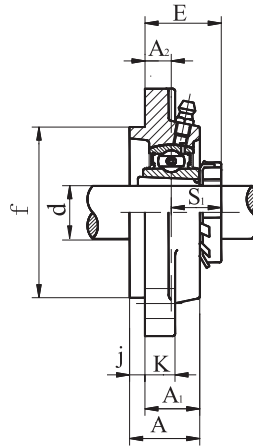
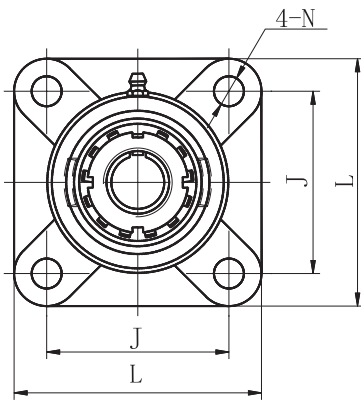


## NAFS3 Eccentric locking collar type

Unit No.	Shaft Dia.		Dimensions (mm)											Bolt Size	Bearing No.	Housing No.	Mass (kg)
	d		L	J	A <sub>2</sub>	A <sub>1</sub>	A	j	K	N	f	S	E				
	(in.)	(mm)															
NAFS305-14 305-15 305 305-16	7/8 15/16 1	25	110	80	9	22	29	7	13	16	80	16.7	39.1	M14	NA305-14 305-15 305 305-16	FS305	1.4
NAFS306-18 306 306-19	1-1/8 1-3/16	30	125	95	10	24	32	8	15	16	90	17.5	42.5	M14	NA306-18 306 306-19	FS306	2.0
NAFS307-20 307-21 307-22 307	1-1/4 1-5/16 1-3/8	35	135	100	11	27	36	9	16	19	100	18.3	44.3	M16	NA307-20 307-21 307-22 307	FS307	2.4
NAFS308-24 308-25 308	1-1/2 1-9/16	40	150	112	13	30	40	10	17	19	115	19.8	50.3	M16	NA308-24 308-25 308	FS308	3.4
NAFS309-26 309-27 309-28 309	1-5/8 1-11/16 1-3/4	45	160	125	14	33	44	11	18	19	125	19.8	52.9	M16	NA309-26 309-27 309-28 309	FS309	4.2
NAFS310-30 310-31 310	1-7/8 1-15/16	50	175	132	16	36	48	12	19	23	140	24.6	58	M20	NA310-30 310-31 310	FS310	5.5
NAFS311-32 311-34 311 311-35	2 2-1/8 2-3/16	55	185	140	17	39	52	13	20	23	150	27.8	62.2	M20	NA311-32 311-34 311 311-35	FS311	6.5
NAFS312-36 312 312-38 312-39	2-1/4 2-3/8 2-7/16	60	195	150	19	42	56	14	22	23	160	30.95	67.5	M20	NA312-36 312 312-38 312-39	FS312	7.5
NAFS313-40 313	2-1/2	65	208	166	15	40	58	18	22	23	175	32.5	68.2	M20	NA313-40 313	FS313	9.3
NAFS314-44 314	2-3/4	70	226	178	18	43	61	18	25	25	185	34.15	76	M22	NA314-44 314	FS314	11
NAFS315 315-48	3	75	236	184	21	48	66	18	25	25	200	37.3	83.7	M22	NA315 315-48	FS315	13
NAFS316		80	250	196	18	48	68	20	27	31	210	40.5	83.9	M27	NA316	FS316	16
NAFS317-52 317	3-1/4	85	260	204	24	54	74	20	27	31	220	42	91.5	M27	NA317-52 317	FS317	19
NAFS318-56 318	3-1/2	90	280	216	24	56	76	20	30	35	240	43.6	96.3	M30	NA318-56 318	FS318	23
NAFS319 319-60	3-3/4	95	290	228	39	74	94	20	30	35	250	46.8	114.5	M30	NA319 319-60	FS319	26
NAFS320 320-64	4	100	310	242	39	74	94	20	32	38	260	50	117.6	M33	NA320 320-64	FS320	32

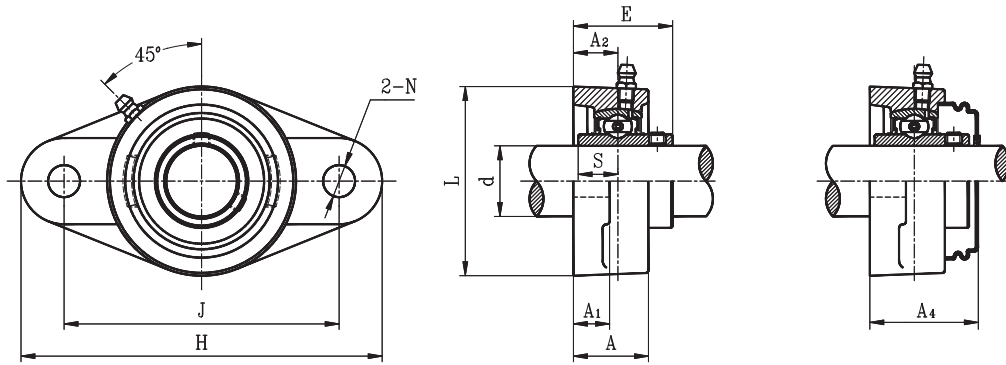


# SQUARE FLANGE CARTRIDGE UNITS



## UKFS3+H Tapered bore, adapter type

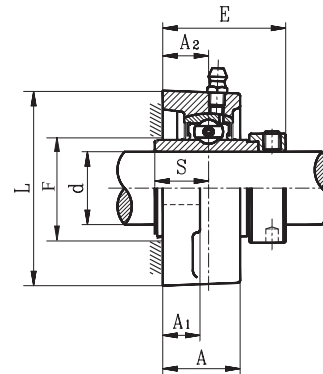
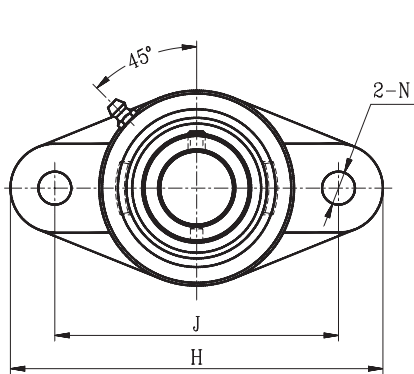
Unit No.	Shaft Dia.		Dimensions (mm)											Bolt Size	Bearing No.	Housing No.	Adapter No.	Mass (kg)
	d		L	J	A <sub>2</sub>	A <sub>1</sub>	A	j	K	N	f	S <sub>1</sub>	E					
	(in.)	(mm)																
UKFS305+HE2305 305+H2305	3/4	20	110	80	9	22	29	7	13	16	80	21.5	30.5	M14	UK305	FS305	HE2305 H2305	1.3
UKFS306+HS2306 306+HA2306 306+H2306 306+HE2306	7/8 15/16 1	25	125	95	10	24	32	8	15	16	90	23	33	M14	UK306	FS306	HS2306 HA2306 H2306 HE2306	1.9
UKFS307+HS2307 307+H2307 307+HA2307	1-1/8 1-3/16	30	135	100	11	27	36	9	16	19	100	25.5	36.5	M16	UK307	FS307	HS2307 H2307 HA2307	2.4
UKFS308+HE2308 308+HS2308 308+H2308	1-1/4 1-3/8	35	150	112	13	30	40	10	17	19	115	27.5	40.5	M16	UK308	FS308	HE2308 HS2308 H2308	3.3
UKFS309+HA2309 309+HE2309 309+H2309	1-7/16 1-1/2	40	160	125	14	33	44	11	18	19	125	30	44	M16	UK309	FS309	HA2309 HE2309 H2309	4.1
UKFS310+HS2310 310+HA2310 310+HE2310 310+H2310	1-5/8 1-11/16 1-3/4	45	175	132	16	36	48	12	19	23	140	32	48	M20	UK310	FS310	HS2310 HA2310 HE2310 H2310	5.3
UKFS311+HS2311 311+HA2311 311+H2311 311+HE2311	1-7/8 1-15/16 2	50	185	140	17	39	52	13	20	23	150	33.5	50.5	M20	UK311	FS311	HS2311 HA2311 H2311 HE2311	6.2
UKFS312+HS2312 312+H2312	2-1/8	55	195	150	19	42	56	14	22	23	160	36.5	55.5	M20	UK312	FS312	HS2312 H2312	7.1
UKFS313+HA2313 313+HE2313 313+H2313 313+HS2313	2-3/16 2-1/4 2-3/8	60	208	166	15	40	58	18	22	23	175	38.5	53.5	M20	UK313	FS313	HA2313 HE2313 H2313 HS2313	8.7
UKFS315+HA2315 315+HE2315 315+H2315	2-7/16 2-1/2	65	236	184	21	48	66	18	25	25	200	42.5	63.5	M22	UK315	FS315	HA2315 HE2315 H2315	13
UKFS316+HA2316 316+HE2316 316+H2316	2-11/16 2-3/4	70	250	196	18	48	68	20	27	31	210	44.5	62.5	M27	UK316	FS316	HA2316 HE2316 H2316	15
UKFS317+HA2317 317+H2317 317+HE2317	2-15/16 3	75	260	204	24	54	74	20	27	31	220	48	72	M27	UK317	FS317	HA2317 H2317 HE2317	17
UKFS318+H2318		80	280	216	24	56	76	20	30	35	240	48	72	M30	UK318	FS318	H2318	21
UKFS319+HE2319 319+H2319	3-1/4	85	290	228	39	74	94	20	30	35	250	52	91	M30	UK319	FS319	HE2319 H2319	25
UKFS320+HE2320 320+H2320	3-1/2	90	310	242	39	74	94	20	32	38	260	54	93	M33	UK320	FS320	HE2320 H2320	30



**UCFL2**  
Setscrew type

**S-UCFL200E1**  
**SM-UCFL200E1**

Unit No.	Shaft Dia.		Dimensions (mm)										Bolt Size	Bearing No.	Housing No.	Mass (kg)	Available N
	d		H	J	L	A <sub>2</sub>	A <sub>1</sub>	A	E	N	S	A <sub>4</sub>					
	(in.)	(mm)															
UCFL201S 201-8S 202S 202-10S 203S 203-11S	1/2 5/8 11/16	12 15 17	99	76.5	57	15	11	24.5	30.9	11.5	11.5	--	M10	UC201S 201-8S 202S 202-10S 203S 203-11S	FL203	0.45	--
UCFL201 201-8 202 202-10 203 203-11 204-12 204	1/2 5/8 11/16 3/4	12 15 17 20	113	90	60	15	11	25.5	33.3	11.5	12.7	37.5	M10	UC201 201-8 202 202-10 203 203-11 204-12 204	FL204	0.51	12
UCFL205-14 205-15 205 205-16	7/8 15/16 1	25	130	99	68	16	13	27	35.7	11.5	14.3	40	M10	UC205-14 205-15 205 205-16	FL205	0.60	16
UCFL206-18 206 206-19 206-20	1-1/8 1-3/16 1-1/4	30	148	117	80	18	13	31	40.2	11.5	15.9	44	M10	UC206-18 206 206-19 206-20	FL206	0.90	16
UCFL207-20 207-21 207-22 207 207-23	1-1/4 1-5/16 1-3/8 1-7/16	35	161	130	90	19	14	34	44.4	14	17.5	48.5	M12	UC207-20 207-21 207-22 207 207-23	FL207	1.20	16
UCFL208-24 208-25 208	1-1/2 1-9/16	40	175	144	100	21	14	36	51.2	14	19	55	M12	UC208-24 208-25 208	FL208	1.50	16
UCFL209-26 209-27 209-28 209	1-5/8 1-11/16 1-3/4	45	188	148	108	22	16	38	52.2	18	19	57	M16	UC209-26 209-27 209-28 209	FL209	1.90	19
UCFL210-30 210-31 210 210-32	1-7/8 1-15/16 2	50	197	157	115	22	16	40	54.6	18	19	60	M16	UC210-30 210-31 210 210-32	FL210	2.20	19
UCFL211-32 211-34 211 211-35	2 2-1/8 2-3/16	55	224	184	130	25	18	43	58.4	18	22.2	64	M16	UC211-32 211-34 211 211-35	FL211	3.10	19
UCFL212-36 212 212-38 212-39	2-1/4 2-3/8 2-7/16	60	250	202	140	29	18	48	68.7	18	25.4	74.5	M16	UC212-36 212 212-38 212-39	FL212	4.0	23
UCFL213-40 213	2-1/2	65	258	210	155	30	20	50	69.7	23	25.4	79	M20	UC213-40 213	FL213	5.0	--
UCFL214-44 214	2-3/4	70	265	216	160	31	20	54	75.4	23	30.2	--	M20	UC214-44 214	FL214	5.6	--
UCFL215-47 215 215-48	2-15/16 3	75	275	225	164	34	22	55	78.5	23	33.3	--	M20	UC215-47 215 215-48	FL215	6.2	--
UCFL216		80	290	233	180	34	22	58	83.3	25	33.3	--	M22	UC216	FL216	7.8	--
UCFL217-52 217	3-1/4	85	305	248	190	36	22	63	87.6	25	34.1	--	M22	UC217-52 217	FL217	9.8	--
UCFL218-56 218	3-1/2	90	320	265	205	40	23	68	96.3	25	39.7	--	M22	UC218-56 218	FL218	12.4	--



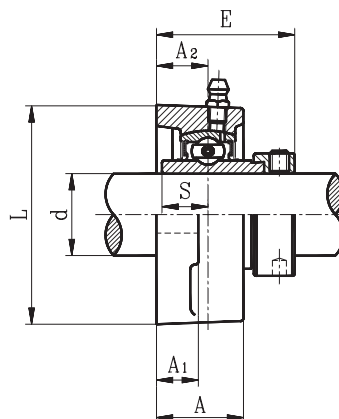
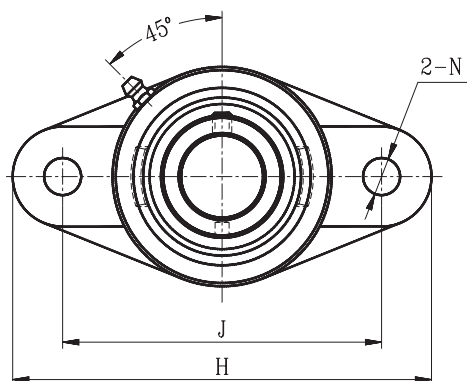
## NAFL2 Eccentric locking collar type

Unit No.	Shaft Dia.		Dimensions (mm)										Bolt Size	Bearing No.	Housing No.	Mass (kg)	Available N
	d		H	J	L	A <sub>2</sub>	A <sub>1</sub>	A	E	N	S	F min.					
	(in.)	(mm)															
NAFL201S 201-8S 202S 202-10S 203S 203-11S	1/2 5/8 11/16	12 15 17	99	76.5	57	15	11	24.5	38.4	11.5	13.9	--	M10	NA201S 201-8S 202S 202-10S 203S 203-11S	FL203	0.48	--
NAFL201 201-8 202 202-10 203 203-11 204-12 204	1/2 5/8 11/16 3/4	12 15 17 20	113	90	60	15	11	25.5	41.5	11.5	17	31	M10	NA201 201-8 202 202-10 203 203-11 204-12 204	FL204	0.73	12
NAFL205-14 205-15 205 205-16	7/8 15/16 1	25	130	99	68	16	13	27	42.9	11.5	17.4	36	M10	NA205-14 205-15 205 205-16	FL205	0.8	16
NAFL206-18 206 206-19 206-20	1-1/8 1-3/16 1-1/4	30	148	117	80	18	13	31	48.1	11.5	18.2	42	M10	NA206-18 206 206-19 206-20	FL206	1.2	16
NAFL207-20 207-21 207-22 207 207-23	1-1/4 1-5/16 1-3/8 1-7/16	35	161	130	90	19	14	34	51.3	14	18.8	50	M12	NA207-20 207-21 207-22 207 207-23	FL207	1.6	16
NAFL208-24 208-25 208	1-1/2 1-9/16	40	175	144	100	21	14	36	55.9	14	21.4	55	M12	NA208-24 208-25 208	FL208	1.9	16
NAFL209-26 209-27 209-28 209	1-5/8 1-11/16 1-3/4	45	188	148	108	22	16	38	56.9	18	21.4	--	M16	NA209-26 209-27 209-28 209	FL209	2.3	19
NAFL210-30 210-31 210	1-7/8 1-15/16	50	197	157	115	22	16	40	60.1	18	24.6	64	M16	NA210-30 210-31 210	FL210	2.6	19
NAFL211-32 211-34 211 211-35	2 2-1/8 2-3/16	55	224	184	130	25	18	43	68.6	18	27.7	71	M16	NA211-32 211-34 211 211-35	FL211	3.8	19
NAFL212-36 212 212-38 212-39	2-1/4 2-3/8 2-7/16	60	250	202	140	29	18	48	75.8	18	30.9	77	M16	NA212-36 212 212-38 212-39	FL212	4.8	23
NAFL213-40 213	2-1/2	65	258	210	155	30	20	50	81.6	23	34.1	84	M20	NA213-40 213	FL213	6.0	--
NAFL214-44 214	2-3/4	70	265	216	160	31	20	54	82.6	23	34.1	89	M20	NA214-44 214	FL214	6.3	--
NAFL215 215-48	3	75	275	225	164	34	22	55	88.8	23	37.3	94	M20	NA215 215-48	FL215	7.2	--
NAFL216		80	290	233	180	34	22	58	91.9	25	37.3	101	M22	NA216	FL216	7.37	--



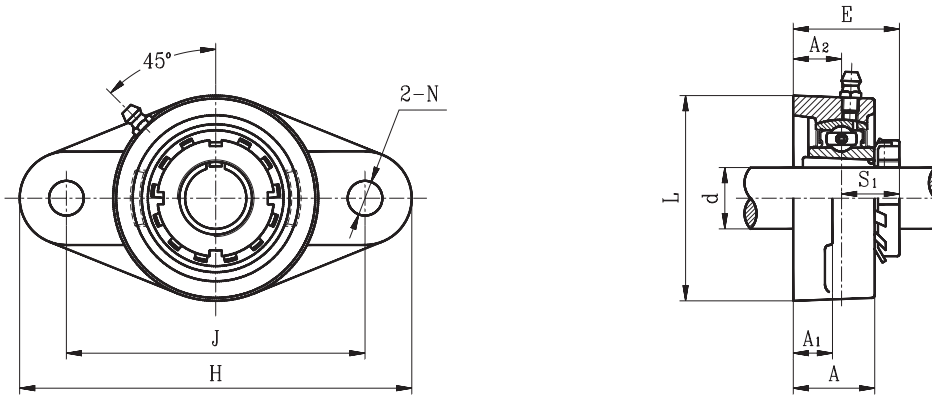


# OVAL FLANGE UNITS



## NAFLU2 Eccentric locking collar type

Unit No.	Shaft Dia.		Dimensions (mm)									Bolt Size	Bearing No.	Housing No.	Mass (kg)
	d	(in.)	H	J	L	A <sub>2</sub>	A <sub>1</sub>	A	E	N	S				
NAFLU201S 201- 8S 202S 202-10S 203S 203-11S	1/2 5/8 11/16	12 15 17	99	76.5	57	15	11	24.5	38.4	11.5	13.9	M10	NA201S 201- 8S 202S 202-10S 203S 203-11S	FLU203	0.64
NAFLU201 201- 8 202 202-10 203 203-11 204-12 204	1/2 5/8 11/16 3/4	12 15 17 20	112.5	90	61	19	15	29.5	45.5	11.5	17	M10	NA201 201- 8 202 202-10 203 203-11 204-12 204	FLU204	0.73
NAFLU205-14 205-15 205 205-16	7/8 15/16 1	25	123	99	70	19	15	30	45.9	11.5	17.4	M10	NA205-14 205-15 205 205-16	FLU205	0.8
NAFLU206-18 206 206-19 206-20	1-1/8 1-3/16 1-1/4	30	142	116.5	82	20	16	32.5	50.1	11.5	18.2	M10	NA206-18 206 206-19 206-20	FLU206	1.2
NAFLU207-20 207-21 207-22 207 207-23	1-1/4 1-5/16 1-3/8 1-7/16	35	158	130	94	21	17	36	53.3	14	18.8	M12	NA207-20 207-21 207-22 207 207-23	FLU207	1.6
NAFLU208-24 208-25 208	1-1/2 1-9/16	40	172	143.5	103	24	17	39	58.9	14	21.4	M12	NA208-24 208-25 208	FLU208	1.9
NAFLU209-26 209-27 209-28 209	1-5/8 1-11/16 1-3/4	45	180	148.5	108	24	18	40	58.9	16	21.4	M14	NA209-26 209-27 209-28 209	FLU209	2.3
NAFLU210-30 210-31 210 210-32	1-7/8 1-15/16 2	50	190	157	114	28	20	45	66.1	18	24.6	M16	NA210-30 210-31 210 210-32	FLU210	2.6
NAFLU211-32 211-34 211 211-35	2 2-1/8 2-3/16	55	217	184	128	31	21	48	74.6	18	27.7	M16	NA211-32 211-34 211 211-35	FLU211	3.8
NAFLU212-36 212 212-38 212-39	2-1/4 2-3/8 2-7/16	60	237	202	138	34	21	53	80.8	18	30.9	M16	NA212-36 212 212-38 212-39	FLU212	4.8
NAFLU213-40 213	2-1/2	65	256	210	152	38	22	56	89.6	21	34.1	M18	NA213-40 213	FLU213	6.0
NAFLU214-44 214	2-3/4	70	264	216	157	38	23	58	89.6	21	34.1	M18	NA214-44 214	FLU214	6.3
NAFLU215-47 215 215-48	2-15/16 3	75	275	225	164	41	24	62	95.8	21	37.3	M18	NA215-47 215 215-48	FLU215	7.2

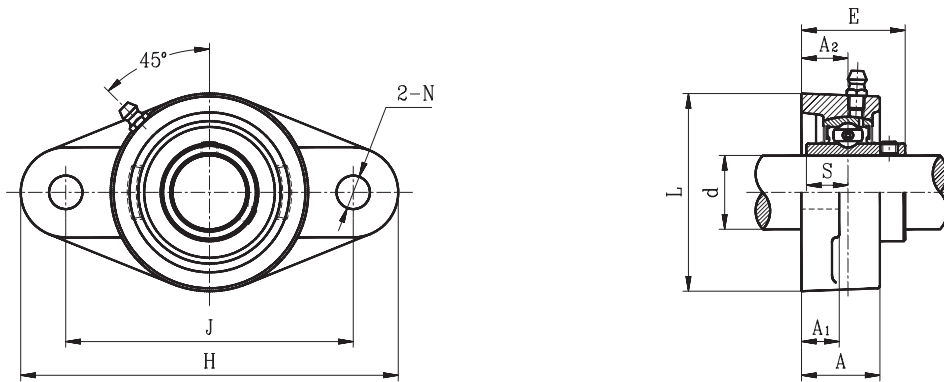


## UKFL2+H Tapered bore, adapter type

Unit No.	Shaft Dia.		Dimensions (mm)									Bolt Size	Bearing No.	Housing No.	Adapter No.	Mass (kg)	Available
	d		H	J	L	A <sub>2</sub>	A <sub>1</sub>	A	E	N	S <sub>1</sub>						
	(in.)	(mm)															
UKFL205+HE2305 205+H2305	3/4	20	130	99	68	16	13	27	34.5	11.5	18.5	M10	UK205	FL205	HE2305 H2305	0.6	16
UKFL206+HS2306 206+HA2306 206+H2306 206+HE2306	7/8 15/16 1	25	148	117	80	18	13	31	38.5	11.5	20.5	M10	UK206	FL206	HS2306 HA2306 H2306 HE2306	0.96	16
UKFL207+HS2307 207+H2307 207+HA2307	1-1/8 1-3/16	30	161	130	90	19	14	34	41.5	14	22.5	M12	UK207	FL207	HS2307 H2307 HA2307	1.3	16
UKFL208+HE2308 208+HS2308 208+H2308	1-1/4 1-3/8	35	175	144	100	21	14	36	45.5	14	24.5	M12	UK208	FL208	HE2308 HS2308 H2308	1.6	16
UKFL209+HA2309 209+HE2309 209+H2309	1-7/16 1-1/2	40	188	148	108	22	16	38	48	18	26	M16	UK209	FL209	HA2309 HE2309 H2309	2.0	19
UKFL210+HS2310 210+HA2310 210+HE2310 210+H2310	1-5/8 1-11/16 1-3/4	45	197	157	115	22	16	40	49.5	18	27.5	M16	UK210	FL210	HS2310 HA2310 HE2310 H2310	2.3	19
UKFL211+HS2311 211+HA2311 211+H2311 211+HE2311	1-7/8 1-15/16 2	50	224	184	130	25	18	43	53.5	18	28.5	M16	UK211	FL211	HS2311 HA2311 H2311 HE2311	3.3	19
UKFL212+HS2312 212+H2312	2-1/8	55	250	202	140	29	18	48	60	18	31	M16	UK212	FL212	HS2312 H2312	4.0	23
UKFL213+HA2313 213+HE2313 213+H2313 213+HS2313	2-3/16 2-1/4 2-3/8	60	258	210	155	30	20	50	62	23	32	M20	UK213	FL213	HA2313 HE2313 H2313 HS2313	5.1	--
UKFL215+HA2315 215+HE2315 215+H2315	2-7/16 2-1/2	65	275	225	164	34	22	55	69.5	23	35.5	M20	UK215	FL215	HA2315 HE2315 H2315	6.4	--
UKFL216+HA2316 216+HE2316 216+H2316	2-11/16 2-3/4	70	290	233	180	34	22	58	73	25	39	M22	UK216	FL216	HA2316 HE2316 H2316	8.0	--

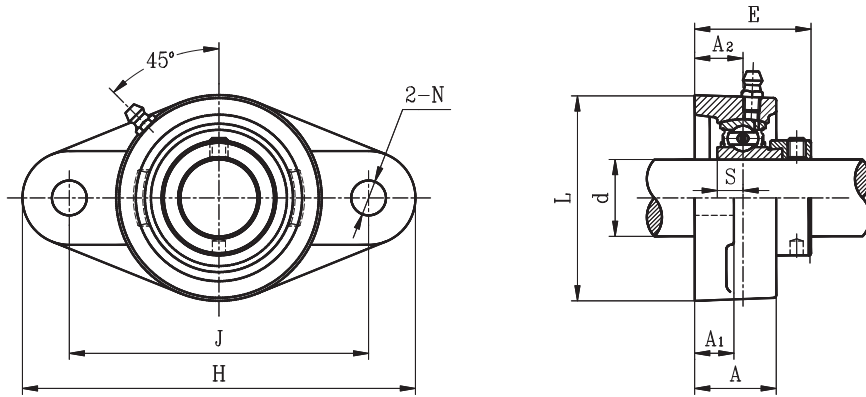


# OVAL FLANGE UNITS



## UCFLX Setscrew type

Unit No.	Shaft Dia.		Dimensions (mm)									Bolt Size	Bearing No.	Housing No.	Mass (kg)
	d		H	J	L	A <sub>2</sub>	A <sub>1</sub>	A	E	N	S				
	(in.)	(mm)													
UCFLX05-14 X05-15 X05-16	7/8 15/16 1	25	141	117	83	18	13	30	40.2	12	15.9	M10	UCX05-14 X05-15 X05-16	FLX05	1.0
UCFLX06-18 X06-19 X06-20	1-1/8 1-3/16 1-1/4	30	156	130	95	19	14	34	44.4	16	17.5	M14	UCX06-18 X06-19 X06-20	FLX06	1.5
UCFLX07-22 X07-23	1-3/8 1-7/16	35	171	144	105	21	14	38	51.2	16	19	M14	UCX07-22 X07-23	FLX07	2.0
UCFLX08-24 X08-25 X08	1-1/2 1-9/16	40	179	148	111	22	14	40	52.2	16	19	M14	UCX08-24 X08-25 X08	FLX08	2.2
UCFLX09-26 X09-27 X09-28 X09	1-5/8 1-11/16 1-3/4	45	189	157	116	23	14	40	55.6	16	19	M14	UCX09-26 X09-27 X09-28 X09	FLX09	2.4
UCFLX10-30 X10-31 X10-32	1-7/8 1-15/16 2	50	216	184	133	26	20	44	59.4	19	22.2	M16	UCX10-30 X10-31 X10-32	FLX10	3.4

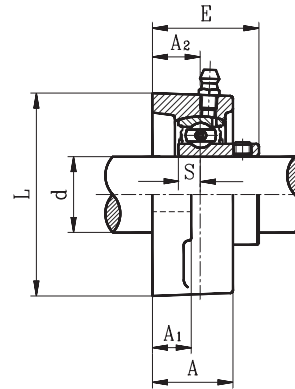
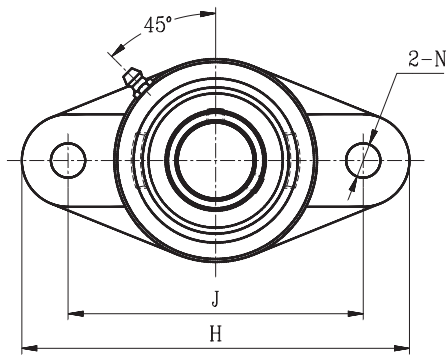


## SAFL2G Eccentric locking collar type

Unit No.	Shaft Dia.		Dimensions (mm)									Bolt Size	Bearing No.	Housing No.	Mass (kg)	Available
	d		H	J	L	A <sub>2</sub>	A <sub>1</sub>	A	E	N	S					N
	(in.)	(mm)														
SAFL201G 201-8G 202G 202-10G 203G 203-11G	1/2 5/8 11/16	12 15 17	99	76.5	57	15	11	24.5	37.1	11.5	6.5	M10	SA201G 201-8G 202G 202-10G 203G 203-11G	FL203	0.38	--
SAFL204-12G 204G	3/4 20	20	113	90	60	15	11	25.5	38.4	11.5	7.5	M10	SA204-12G 204G	FL204	0.39 0.37	12
SAFL205-14G 205-15G 205G 205-16G	7/8 15/16 1	25	130	99	68	16	13	27	39.4	11.5	7.5	M10	SA205-14G 205-15G 205G 205-16G	FL205	0.58 0.58 0.57 0.56	16
SAFL206-18G 206G 206-19G 206-20G	1- 1/8 1- 3/16 1- 1/4	30	148	117	80	18	13	31	44.7	11.5	9	M10	SA206-18G 206G 206-19G 206-20G	FL206	0.84 0.83 0.82 0.81	16
SAFL207-20G 207-21G 207-22G 207G 207-23G	1- 1/4 1- 5/16 1- 3/8 1- 7/16	35	161	130	90	19	14	34	48.4	14	9.5	M12	SA207-20G 207-21G 207-22G 207G 207-23G	FL207	1.36 1.35 1.06 1.03 1.02	16
SAFL208-24G 208-25G 208G	1- 1/2 1- 9/16	40	175	144	100	21	14	36	53.7	14	11	M12	SA208-24G 208-25G 208G	FL208	1.40 1.38 1.30	16
SAFL209-26G 209-27G 209-28G 209G	1-5/8 1-11/16 1-3/4	45	188	148	108	22	16	38	54.7	18	11	M16	SA209-26G 209-27G 209-28G 209G	FL209	1.93 1.9 1.86 1.86	19
SAFL210-30G 210-31G 210G 210-32G	1-7/8 1-15/16 2	50	197	157	115	22	16	40	54.7	18	11	M16	SA210-30G 210-31G 210G 210-32G	FL210	2.21 2.17 2.17 2.17	19
SAFL211-32G 211-34G 211G 211-35G	2 2-1/8 2-3/16	55	224	184	130	25	18	43	61.4	18	12	M16	SA211-32G 211-34G 211G 211-35G	FL211	2.90 2.81 2.78 2.75	19
SAFL212-36G 212G 212-38G 212-39G	2-1/4 2-3/8 2-7/16	60	250	202	140	29	18	48	66.3	18	12	M16	SA212-36G 212G 212-38G 212-39G	FL212	3.76 3.66 3.66 3.55	23



# OVAL FLANGE UNITS

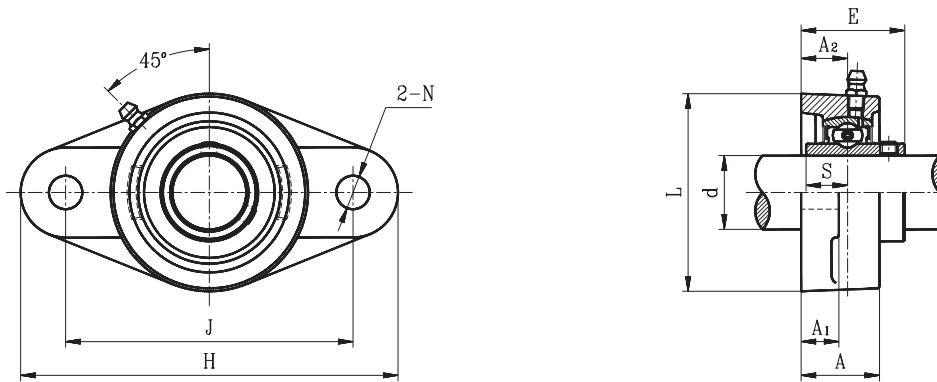


## SBFL2G Setscrew type

Unit No.	Shaft Dia.		Dimensions (mm)									Bolt Size	Bearing No.	Housing No.	Mass (kg)	Available
	d		H	J	L	A <sub>2</sub>	A <sub>1</sub>	A	E	N	S					
	(in.)	(mm)														
SBFL201G 201-8G 202G 202-10G 203G 203-11G	1/2 5/8 11/16	12 15 17	99	76.5	57	15	11	24.5	31	11.5	6	M10	SB201G 201-8G 202G 202-10G 203G 203-11G	FL203	0.38	--
SBFL204-12G 204G	3/4	20	113	90	60	15	11	25.5	33	11.5	7	M10	SB204-12G 204G	FL204	0.39 0.37	12
SBFL205-14G 205-15G 205G 205-16G	7/8 15/16 1	25	130	99	68	16	13	27	35.5	11.5	7.5	M10	SB205-14G 205-15G 205G 205-16G	FL205	0.58 0.58 0.57 0.56	16
SBFL206-18G 206G 206-19G 206-20G	1- 1/8 1- 3/16 1- 1/4	30	148	117	80	18	13	31	40	11.5	8	M10	SB206-18G 206G 206-19G 206-20G	FL206	0.84 0.83 0.82 0.81	16
SBFL207-20G 207-21G 207-22G 207G 207-23G	1- 1/4 1- 5/16 1- 3/8 1- 7/16	35	161	130	90	19	14	34	42.5	14	8.5	M12	SB207-20G 207-21G 207-22G 207G 207-23G	FL207	1.36 1.35 1.06 1.03 1.02	16
SBFL208-24G 208-25G 208G	1- 1/2 1- 9/16	40	175	144	100	21	14	36	46	14	9	M12	SB208-24G 208-25G 208G	FL208	1.40 1.38 1.30	16
SBFL209-26G 209-27G 209-28G 209G	1-5/8 1-11/16 1-3/4	45	188	148	108	22	16	38	53	18	10.2	M16	SB209-26G 209-27G 209-28G 209G	FL209	1.97	19
SBFL210-30G 210-31G 210G 210-32G	1-7/8 1-15/16 2	50	197	157	115	22	16	40	54.6	18	10.9	M16	SB210-30G 210-31G 210G 210-32G	FL210	2.18	19
SBFL211-32G 211-34G 211G 211-35G	2 2-1/8 2-3/16	55	224	184	130	25	18	43	58.5	18	11.8	M16	SB211-32G 211-34G 211G 211-35G	FL211	3.04	19
SBFL212-36G 212G 212-38G 212-39G	2-1/4 2-3/8 2-7/16	60	250	202	140	29	18	48	67.8	18	14.9	M16	SB212-36G 212G 212-38G 212-39G	FL212	3.76	23

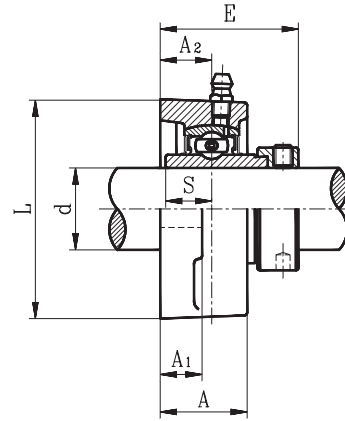
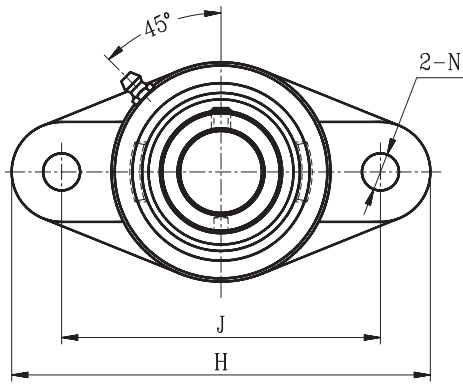


# OVAL FLANGE UNITS



## UCFL3 Setscrew type

Unit No.	Shaft Dia.		Dimensions (mm)									Bolt Size	Bearing No.	Housing No.	Mass (kg)
	d		H	J	L	A <sub>2</sub>	A <sub>1</sub>	A	E	N	S				
	(in.)	(mm)													
UCFL305-14 305-15 305 305-16	7/8 15/16 1	25	150	113	80	16	13	29	39	19	15	M16	UC305-14 305-15 305 305-16	FL305	1.1
UCFL306-18 306 306-19	1- 1/8 1- 3/16	30	180	134	90	18	15	32	44	23	17	M20	UC306-18 306 306-19	FL306	1.5
UCFL307-20 307-21 307-22 307	1- 1/4 1- 5/16 1- 3/8	35	185	141	100	20	16	36	49	23	19	M20	UC307-20 307-21 307-22 307	FL307	1.8
UCFL308-24 308-25 308	1- 1/2 1- 9/16	40	200	158	112	23	17	40	56	23	19	M20	UC308-24 308-25 308	FL308	2.5
UCFL309-26 309-27 309-28 309	1- 5/8 1-11/16 1- 3/4	45	230	177	125	25	18	44	60	25	22	M22	UC309-26 309-27 309-28 309	FL309	3.4
UCFL310-30 310-31 310	1- 7/8 1-15/16	50	240	187	140	28	19	48	67	25	22	M22	UC310-30 310-31 310	FL310	4.4
UCFL311-32 311-34 311 311-35	2 2-1/8 2-3/16	55	250	198	150	30	20	52	71	25	25	M22	UC311-32 311-34 311 311-35	FL311	5.1
UCFL312-36 312 312-38 312-39	2-1/4 2-3/8 2-7/16	60	270	212	160	33	22	56	78	31	26	M27	UC312-36 312 312-38 312-39	FL312	6.1
UCFL313-40 313	2- 1/2	65	295	240	175	33	25	58	78	31	30	M27	UC313-40 313	FL313	7.8
UCFL314-44 314	2-3/4	70	315	250	185	36	28	61	83	35	31	M30	UC314-44 314	FL314	9.8
UCFL315 315-48	3	75	320	260	195	39	30	66	89	35	32	M30	UC315 315-48	FL315	11.3
UCFL316		80	355	285	210	38	32	68	90	38	34	M33	UC316	FL316	14.3

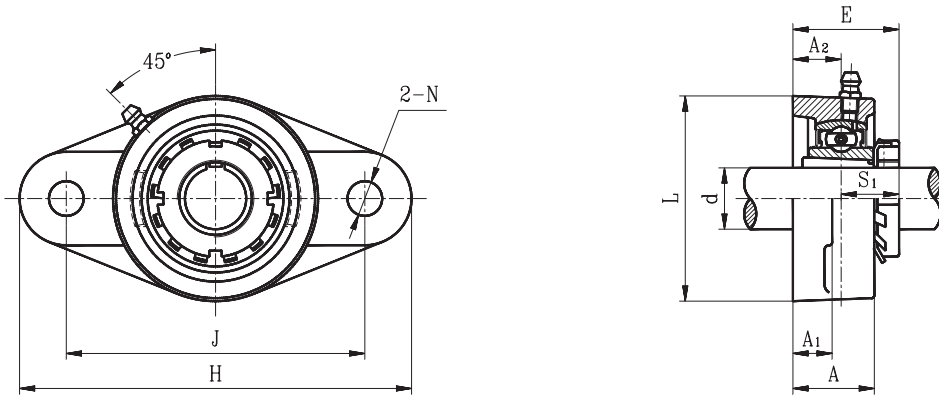


## NAFL3 Eccentric locking collar type

Unit No.	Shaft Dia.		Dimensions (mm)									Bolt Size	Bearing No.	Housing No.	Mass (kg)
	d		H	J	L	A <sub>2</sub>	A <sub>1</sub>	A	E	N	S				
	(in.)	(mm)													
NAFL305-14 305-15 305 305-16	7/8 15/16 1	25	150	113	80	16	13	29	46.1	19	16.7	M16	NA305-14 305-15 305 305-16	FL305	1.1
NAFL306-18 306 306-19	1- 1/8 1- 3/16	30	180	134	90	18	15	32	50.5	23	17.5	M20	NA306-18 306 306-19	FL306	1.6
NAFL307-20 307-21 307-22 307 307-23	1- 1/4 1- 5/16 1- 3/8 1- 7/16	35	185	141	100	20	16	36	53.3	23	18.3	M20	NA307-20 307-21 307-22 307 307-23	FL307	2.0
NAFL308-24 308-25 308	1- 1/2 1- 9/16	40	200	158	112	23	17	40	60.3	23	19.8	M20	NA308-24 308-25 308	FL308	2.6
NAFL309-26 309-27 309-28 309	1- 5/8 1-11/16 1- 3/4	45	230	177	125	25	18	44	63.9	25	19.8	M22	NA309-26 309-27 309-28 309	FL309	3.6
NAFL310-30 310-31 310	1- 7/8 1-15/16	50	240	187	140	28	19	48	70	25	24.6	M22	NA310-30 310-31 310	FL310	4.6
NAFL311-32 311-34 311 311-35	2 2-1/8 2-3/16	55	250	198	150	30	20	52	75.2	25	27.8	M22	NA311-32 311-34 311 311-35	FL311	5.3
NAFL312-36 312 312-38 312-39	2-1/4 2-3/8 2-7/16	60	270	212	160	33	22	56	80	31	29.5	M27	NA312-36 312 312-38 312-39	FL312	6.4
NAFL313-40 313	2- 1/2	65	295	240	175	33	25	58	86.2	31	32.5	M27	NA313-40 313	FL313	8.2
NAFL314-44 314	2-3/4	70	315	250	185	36	28	61	93.95	35	34.15	M30	NA314-44 314	FL314	9.5
NAFL315 315-48	3	75	320	260	195	39	30	66	101.7	35	37.3	M30	NA315 315-48	FL315	11
NAFL316		80	355	285	210	38	32	68	103.9	38	40.5	M33	NA316	FL316	14



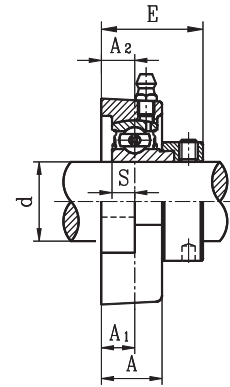
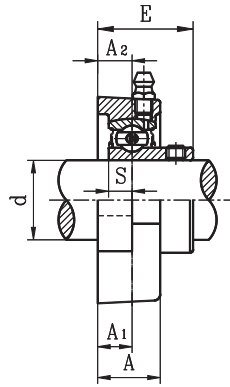
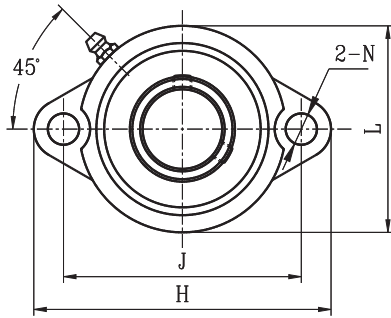
# OVAL FLANGE UNITS



**UKFL3+H**  
Tapered bore, adapter type

Unit No.	Shaft Dia.		Dimensions (mm)									Bolt Size	Bearing No.	Housing No.	Adapter No.	Mass (kg)
	d		H	J	L	A <sub>2</sub>	A <sub>1</sub>	A	E	N	S <sub>1</sub>					
	(in.)	(mm)														
UKFL305+HE2305 305+H2305	3/4	20	150	113	80	16	13	29	37.5	19	21.5	M16	UK305	FL305	HE2305 H2305	1.1
UKFL306+HS2306 306+HA2306 306+H2306 306+HE2306	7/8 15/16 1	25	180	134	90	18	15	32	41	23	23	M20	UK306	FL306	HS2306 HA2306 H2306 HE2306	1.5
UKFL307+HS2307 307+H2307 307+HA2307	1-1/8 1-3/16	30	185	141	100	20	16	36	45.5	23	25.5	M20	UK307	FL307	HS2307 H2307 HA2307	1.8
UKFL308+HE2308 308+HS2308 308+H2308	1-1/4 1-3/8	35	200	158	112	23	17	40	50.5	23	27.5	M20	UK308	FL308	HE2308 HS2308 H2308	2.5
UKFL309+HA2309 309+HE2309 309+H2309	1-7/16 1-1/2	40	230	177	125	25	18	44	55	25	30	M22	UK309	FL309	HA2309 HE2309 H2309	3.5
UKFL310+HS2310 310+HA2310 310+HE2310 310+H2310	1-5/8 1-11/16 1-3/4	45	240	187	140	28	19	48	60	25	32	M22	UK310	FL310	HS2310 HA2310 HE2310 H2310	4.4
UKFL311+HS2311 311+HA2311 311+H2311 311+HE2311	1-7/8 1-15/16 2	50	250	198	150	30	20	52	63.5	25	33.5	M22	UK311	FL311	HS2311 HA2311 H2311 HE2311	5.1
UKFL312+HS2312 312+H2312	2-1/8	55	270	212	160	33	22	56	69.5	31	36.5	M27	UK312	FL312	HS2312 H2312	6.0
UKFL313+HA2313 313+HE2313 313+H2313 313+HS2313	2-3/16 2-1/4 2-3/8	60	295	240	175	33	25	58	71.5	31	38.5	M27	UK313	FL313	HA2313 HE2313 H2313 HS2313	7.6
UKFL315+HA2315 315+HE2315 315+H2315	2-7/16 2-1/2	65	320	260	195	39	30	66	81.5	35	42.5	M30	UK315	FL315	HA2315 HE2315 H2315	10
UKFL316+HA2316 316+HE2316 316+H2316	2-11/16 2-3/4	70	355	285	210	38	32	68	82.5	38	44.5	M33	UK316	FL316	HA2316 HE2316 H2316	13





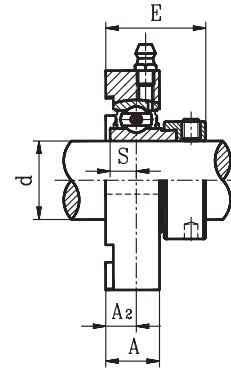
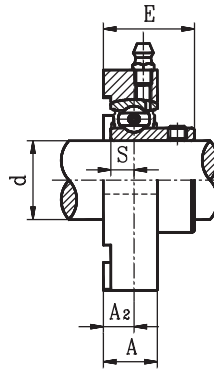
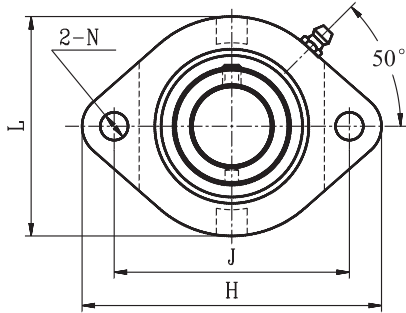
**SBLF2G**  
Setscrew Type

**SALF2G**  
Eccentric Locking Collar Type

Unit No.	Shaft Dia.		Dimensions (mm)									Bolt Size		Bearing No.	Housing No.	Mass (kg)
	d		H	J	L	A <sub>1</sub>	A	A <sub>2</sub>	N	S	E					
	(in.)	(mm)														
SBLF201G 201-8G 202G 202-10G 203G 203-11G	1/2 5/8 11/16	12 15 17	81	63.5	56	9.5	18	9.5	8	6	25.5	M6	1/4	SB201G 201-8G 202G 202-10G 203G 203-11G	LF203	0.27 0.26 0.25
SBLF204-12G 204G	3/4	20	90	71.5	61	11	20	11	10	7	29	M8	5/16	SB204-12G 204G	LF204	0.33
SBLF205-14G 205-15G 205G 205-16G	7/8 15/16 1	25	95	76	64	11	20	11	10	7.5	30.5	M8	5/16	SB205-14G 205-15G 205G 205-16G	LF205	0.38
SBLF206-18G 206G 206-19G 206-20G	1-1/8 1-3/16 1-1/4	30	113	90.5	76	12	22.5	12	12	8	34	M10	3/8	SB206-18G 206G 206-19G 206-20G	LF206	0.56
SBLF207-20G 207-21G 207-22G 207G 207-23G	1-1/4 1-5/16 1-3/8 1-7/16	35	122	100	89	13	24	13	12	8.5	36.5	M10	3/8	SB207-20G 207-21G 207-22G 207G 207-23G	LF207	0.80

Unit No.	Shaft Dia.		Dimensions (mm)									Bolt Size		Bearing No.	Housing No.	Mass (kg)
	d		H	J	L	A <sub>1</sub>	A	A <sub>2</sub>	N	S	E					
	(in.)	(mm)														
SALF201G 201-8G 202G 202-10G 203G 203-11G	1/2 5/8 11/16	12 15 17	81	63.5	56	9.5	18	9.5	8	6.5	31.6	M6	1/4	SA201G 201-8G 202G 202-10G 203G 203-11G	LF203	0.3 0.29 0.28
SALF204-12G 204G	3/4	20	90	71.5	61	11	20	11	10	7.5	34.4	M8	5/16	SA204-12G 204G	LF204	0.33
SALF205-14G 205-15G 205G 205-16G	7/8 15/16 1	25	95	76	64	11	20	11	10	7.5	34.4	M8	5/16	SA205-14G 205-15G 205G 205-16G	LF205	0.42
SALF206-18G 206G 206-19G 206-20G	1-1/8 1-3/16 1-1/4	30	113	90.5	76	12	22.5	12	12	9	38.7	M10	3/8	SA206-18G 206G 206-19G 206-20G	LF206	0.60
SALF207-20G 207-21G 207-22G 207G 207-23G	1-1/4 1-5/16 1-3/8 1-7/16	35	122	100	89	13	24	13	12	9.5	42.4	M10	3/8	SA207-20G 207-21G 207-22G 207G 207-23G	LF207	0.85

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



**SBLFTC2G**  
Setscrew Type

**SALFTC2G**  
Eccentric Locking Collar Type

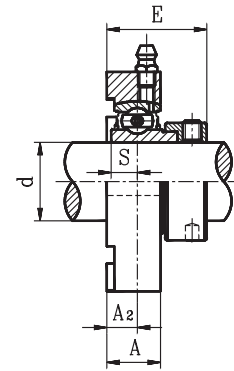
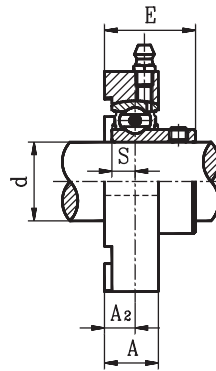
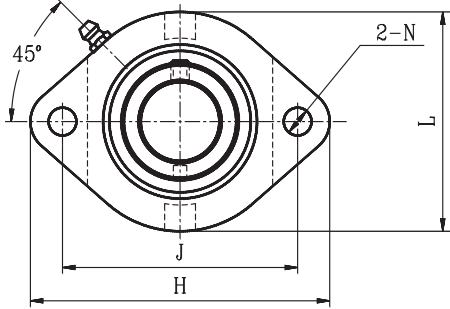
Unit No.	Shaft Dia.		Dimensions (mm)									Bolt Size		Bearing No.	Housing No.	Mass (kg)
	d		H	J	L	A	A <sub>2</sub>	N	S	E						
	(in.)	(mm)														
SBLFTC204-12G 204G	3/4	20	90.5	71.4	66.5	17	9.5	9	7	27.5	M8	5/16	SB204-12G 204G	LFTC20	0.4	
SBLFTC205-14G 205-15G 205G 205-16G	7/8 15/16	25	97	76.2	71	17.5	9.9	9	7.5	29.4	M8	5/16	SB205-14G 205-15G 205G 205-16G	LFTC25	0.5	
SBLFTC206-18G 206G 206-19G 206-20G	1-1/8 1-3/16 1-1/4	30	112.5	90.5	84	20.5	11.4	11	8	33.4	M10	3/8	SB206-18G 206G 206-19G 206-20G	LFTC30	0.8	
SBLFTC207-20G 207-21G 207-22G 207G 207-23G	1-1/4 1-5/16 1-3/8 1-7/16	35	126	100	94	22	12.4	11	8.5	35.9	M10	3/8	SB207-20G 207-21G 207-22G 207G 207-23G	LFTC35	0.9	
SBLFTC208-24G 208-25G 208G	1-1/2 1-9/16	40	148	119	104	24	14.1	14	9	39.1	M12	7/16	SB208-24G 208-25G 208G	LFTC40	1.18	

Unit No.	Shaft Dia.		Dimensions (mm)									Bolt Size		Bearing No.	Housing No.	Mass (kg)
	d		H	J	L	A	A <sub>2</sub>	N	S	E						
	(in.)	(mm)														
SALFTC204-12G 204G	3/4	20	90.5	71.4	66.5	17	9.5	9	7.5	32.9	M8	5/16	SA204-12G 204G	LFTC20	0.5	
SALFTC205-14G 205-15G 205G 205-16G	7/8 15/16	25	97	76.2	71	17.5	9.9	9	7.5	33.3	M8	5/16	SA205-14G 205-15G 205G 205-16G	LFTC25	0.5	
SALFTC206-18G 206G 206-19G 206-20G	1-1/8 1-3/16 1-1/4	30	112.5	90.5	84	20.5	11.4	11	9	38.1	M10	3/8	SA206-18G 206G 206-19G 206-20G	LFTC30	0.8	
SALFTC207-20G 207-21G 207-22G 207G 207-23G	1-1/4 1-5/16 1-3/8 1-7/16	35	126	100	94	22	12.4	11	9.5	41.8	M10	3/8	SA207-20G 207-21G 207-22G 207G 207-23G	LFTC35	1.0	
SALFTC208-24G 208-25G 208G	1-1/2 1-9/16	40	148	119	104	24	14.1	14	11	46.8	M12	7/16	SA208-24G 208-25G 208G	LFTC40	1.27	

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



# LIGHT-DUTY OVAL FLANGE UNITS(FD TYPE)



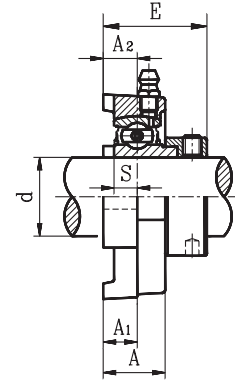
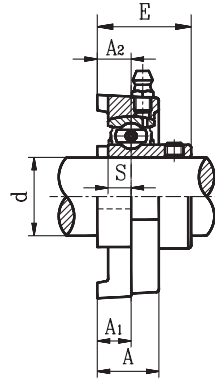
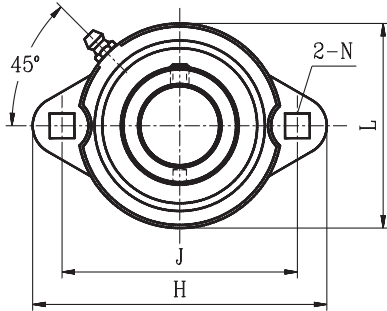
**SBFD2G**  
Setscrew Type

**SAFD2G**  
Eccentric Locking Collar Type

Unit No.	Shaft Dia.		Dimensions (mm)								Bolt Size		Bearing No.	Housing No.	Mass (kg)
	d		H	J	L	A	A <sub>2</sub>	N	S	E					
	(in.)	(mm)													
SBFD201G 201-8G 202G 202-10G 203G 203-11G	1/2 5/8 11/16	12 15 17	81	63	59	15	8.5	7	6	24.5	M5	10-24	SB201G 201-8G 202G 202-10G 203G 203-11G	FD203	0.27 0.26 0.25
SBFD204-12G 204G	3/4	20	90	71	67	17	9.5	10	7	27.5	M8	5/16	SB204-12G 204G	FD204	0.4
SBFD205-14G 205-15G 205G 205-16G	7/8 15/16 1	25	95.2	76.2	71	17.5	9.5	10	7.5	29	M8	5/16	SB205-14G 205-15G 205G 205-16G	FD205	0.5
SBFD206-18G 206G 206-19G 206-20G	1-1/8 1-3/16 1-1/4	30	113	90.5	84	21	12	12	8	34	M10	3/8	SB206-18G 206G 206-19G 206-20G	FD206	0.8
SBFD207-20G 207-21G 207-22G 207G 207-23G	1-1/4 1-5/16 1-3/8 1-7/16	35	125	100	94	22	12.5	12	8.5	36	M10	3/8	SB207-20G 207-21G 207-22G 207G 207-23G	FD207	0.9

Unit No.	Shaft Dia.		Dimensions (mm)								Bolt Size		Bearing No.	Housing No.	Mass (kg)
	d		H	J	L	A	A <sub>2</sub>	N	S	E					
	(in.)	(mm)													
SAFD201G 201-8G 202G 202-10G 203G 203-11G	1/2 5/8 11/16	12 15 17	81	63	59	15	8.5	7	6.5	30.6	M5	10-24	SA201G 201-8G 202G 202-10G 203G 203-11G	FD203	0.3 0.29 0.28
SAFD204-12G 204G	3/4	20	90	71	67	17	9.5	10	7.5	32.9	M8	5/16	SA204-12G 204G	FD204	0.5
SAFD205-14G 205-15G 205G 205-16G	7/8 15/16 1	25	95.2	76.2	71	17.5	9.5	10	7.5	32.9	M8	5/16	SA205-14G 205-15G 205G 205-16G	FD205	0.5
SAFD206-18G 206G 206-19G 206-20G	1-1/8 1-3/16 1-1/4	30	113	90.5	84	21	12	12	9	38.7	M10	3/8	SA206-18G 206G 206-19G 206-20G	FD206	0.8
SAFD207-20G 207-21G 207-22G 207G 207-23G	1-1/4 1-5/16 1-3/8 1-7/16	35	125	100	94	22	12.5	12	9.5	41.9	M10	3/8	SA207-20G 207-21G 207-22G 207G 207-23G	FD207	1.0

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



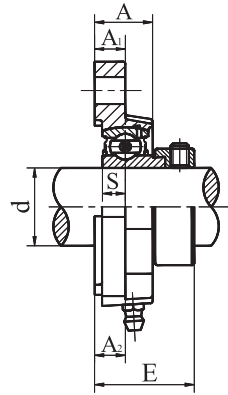
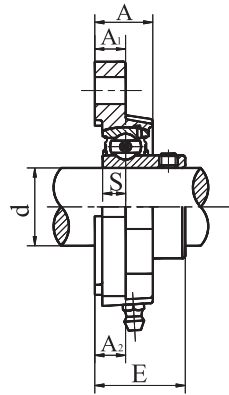
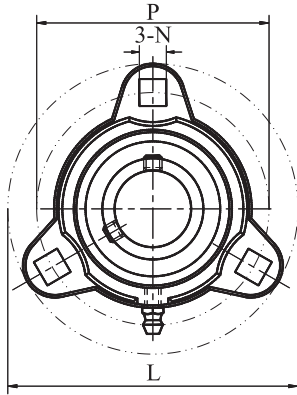
**SBPFTD2G**  
Setscrew Type

**SAPFTD2G**  
Eccentric Locking Collar Type

Unit No.	Shaft Dia.		Dimensions (mm)									Bolt Size		Bearing No.	Housing No.	Mass (kg)														
	d		H	J	L	A <sub>1</sub>	A	A <sub>2</sub>	N	S	E																			
	(in.)	(mm)																												
SBPFTD201G 201-8G 202G 202-10G 203G 203-11G	1/2 5/8 11/16	12 15 17	81	63.5	56	9	18	9	8.7	6	25	M8	5/16	SB201G 201-8G 202G 202-10G 203G 203-11G	PFTD203	0.23														
SBPFTD204-12G 204G	3/4	20															91	71.5	63	10.2	20	10.2	8.7	7	28.2	M8	5/16	SB204-12G 204G	PFTD204	0.27
SBPFTD205-14G 205-15G 205G 205-16G	7/8 15/16 1	25															96	76.2	69	10.5	19	8.7	8.7	7.5	28.2	M8	5/16	SB205-14G 205-15G 205G 205-16G	PFTD205	0.38
SBPFTD206-18G 206G 206-19G 206-20G	1-1/8 1-3/16 1-1/4	30															113	90.5	79	11.5	22	11.5	10.3	8	33.5	M10	3/8	SB206-18G 206G 206-19G 206-20G	PFTD206	0.54
SBPFTD207-20G 207-21G 207-22G 207G 207-23G	1-1/4 1-5/16 1-3/8 1-7/16	35															122.5	100	89	12.7	23.8	11.8	10.3	8.5	35.3	M10	3/8	SB207-20G 207-21G 207-22G 207G 207-23G	PFTD207	0.71

Unit No.	Shaft Dia.		Dimensions (mm)									Bolt Size		Bearing No.	Housing No.	Mass (kg)														
	d		H	J	L	A <sub>1</sub>	A	A <sub>2</sub>	N	S	E																			
	(in.)	(mm)																												
SAPFTD201G 201-8G 202G 202-10G 203G 203-11G	1/2 5/8 11/16	12 15 17	81	63.5	56	9	18	9	8.7	6.5	31.1	M8	5/16	SA 201G 201-8G 202G 202-10G 203G 203-11G	PFTD203	0.26														
SAPFTD204-12G 204G	3/4	20															91	71.5	63	10.2	20	10.2	8.7	7.5	33.6	M8	5/16	SA 204-12G 204G	PFTD204	0.29
SAPFTD205-14G 205-15G 205G 205-16G	7/8 15/16 1	25															96	76.2	69	10.5	19	8.7	8.7	7.5	32.1	M8	5/16	SA 205-14G 205-15G 205G 205-16G	PFTD205	0.4
SAPFTD206-18G 206G 206-19G 206-20G	1-1/8 1-3/16 1-1/4	30															113	90.5	79	11.5	22	11.5	10.3	9	38.2	M10	3/8	SA 206-18G 206G 206-19G 206-20G	PFTD206	0.60
SAPFTD207-20G 207-21G 207-22G 207G 207-23G	1-1/4 1-5/16 1-3/8 1-7/16	35															122.5	100	89	12.7	23.8	11.8	10.3	9.5	41.2	M10	3/8	SA 207-20G 207-21G 207-22G 207G 207-23G	PFTD207	0.84

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



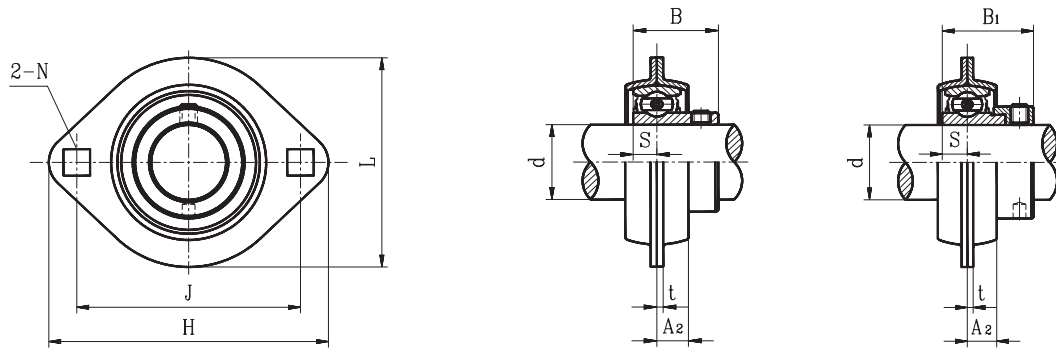
**SBFCT2G**  
Setscrew Type

**SAFCT2G**  
Eccentric Locking Collar Type

Unit No.	Shaft Dia.		Dimensions (mm)									Bolt Size		Bearing No.	Housing No.	Mass (kg)
	d		L	P	A <sub>1</sub>	A	A <sub>2</sub>	N	S	E						
	(in.)	(mm)														
SBFCT 201G 201-8G 202G 202-10G 203G 203-11G	1/2 5/8 11/16	12 15 17	81	63.5	10.7	19.1	10.7	7.1	6	26.7	M6	1/4	SB201G 201-8G 202G 202-10G 203G 203-11G	FCT203	0.21	
SBFCT 204-12G 204G	3/4	20	90.5	71.4	11.1	19.8	11.1	8.7	7	29.1	M8	5/16	SB204-12G 204G	FCT204	0.32	
SBFCT 205-14G 205-15G 205G 205-16G	7/8 15/16 1	25	95.2	76.2	10.3	19.8	10.3	8.7	7.5	29.8	M8	5/16	SB205-14G 205-15G 205G 205-16G	FCT205	0.36	
SBFCT 206-18G 206G 206-19G 206-20G	1-1/8 1-3/16 1-1/4	30	113	90.5	12	22	12	10.3	8	34	M10	3/8	SB206-18G 206G 206-19G 206-20G	FCT206	0.37	
SBFCT 207-20G 207-21G 207-22G 207G 207-23G	1-1/4 1-5/16 1-3/8 1-7/16	35	122.5	100	12.7	23.8	12.7	10.3	8.5	36.2	M10	3/8	SB207-20G 207-21G 207-22G 207G 207-23G	FCT207	0.71	

Unit No.	Shaft Dia.		Dimensions (mm)									Bolt Size		Bearing No.	Housing No.	Mass (kg)
	d		L	P	A <sub>1</sub>	A	A <sub>2</sub>	N	S	E						
	(in.)	(mm)														
SAFCT 201G 201-8G 202G 202-10G 203G 203-11G	1/2 5/8 11/16	12 15 17	81	63.5	10.7	19.1	10.7	7.1	6.5	32.8	M6	1/4	SA 201G 201-8G 202G 202-10G 203G 203-11G	FCT203	0.26	
SAFCT 204-12G 204G	3/4	20	90.5	71.4	11.1	19.8	11.1	8.7	7.5	34.5	M8	5/16	SA 204-12G 204G	FCT204	0.34	
SAFCT 205-14G 205-15G 205G 205-16G	7/8 15/16 1	25	95.2	76.2	10.3	19.8	10.3	8.7	7.5	33.7	M8	5/16	SA 205-14G 205-15G 205G 205-16G	FCT205	0.39	
SAFCT 206-18G 206G 206-19G 206-20G	1-1/8 1-3/16 1-1/4	30	113	90.5	12	22	12	10.3	9	38.7	M10	3/8	SA 206-18G 206G 206-19G 206-20G	FCT206	0.61	
SAFCT 207-20G 207-21G 207-22G 207G 207-23G	1-1/4 1-5/16 1-3/8 1-7/16	35	122.5	100	12.7	23.8	12.7	10.3	9.5	42.1	M10	3/8	SA 207-20G 207-21G 207-22G 207G 207-23G	FCT207	0.82	

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



**SBPFL2**  
Setscrew Type

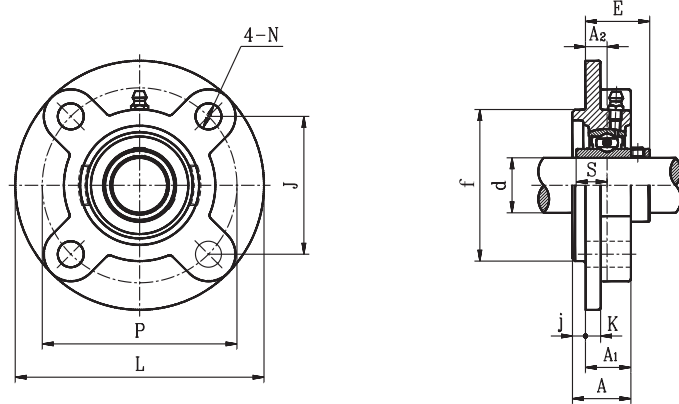
**SAPFL2**  
Eccentric Locking Collar Type

Unit No.	Shaft Dia.		Dimensions (mm)									Bolt Size		Bearing No.	Housing No.	Mass (kg)
	d		H	J	A <sub>2</sub>	L	N	t	S	B						
	(in.)	(mm)														
SBPFL201 201-8 202 202-10 203 203-11	1/2 5/8 11/16	12 15 17	81	63.5	7	59	7.5	2	6	22	M6	1/4	SB201 201-8 202 202-10 203 203-11	PFL203	0.2	
SBPFL204-12 204	3/4	20	90	71.5	8	67	9	2	7	25	M8	5/16	SB204-12 204	PFL204	0.24	
SBPFL205-14 205-15 205 205-16	7/8 15/16 1	25	95	76	9	71	9	2	7.5	27	M8	5/16	SB205-14 205-15 205 205-16	PFL205	0.38	
SBPFL206-18 206 206-19 206-20	1-1/8 1-3/16 1-1/4	30	113	90.5	9	84	10.5	2.5	8	30	M10	3/8	SB206-18 206 206-19 206-20	PFL206	0.38	
SBPFL207-20 207-21 207-22 207 207-23	1-1/4 1-5/16 1-3/8 1-7/16	35	122	100	10	94	10.5	2.5	8.5	32	M10	3/8	SB207-20 207-21 207-22 207 207-23	PFL207	0.64	
SBPFL208-24 208-25 208	1-1/2 1-9/16	40	148	119	12	100	13.5	3.5	9	34	M12	1/2	SB208-24 208-25 208	PFL208	0.8	

Unit No.	Shaft Dia.		Dimensions (mm)									Bolt Size		Bearing No.	Housing No.	Mass (kg)
	d		H	J	A <sub>2</sub>	L	N	t	S	B <sub>1</sub>						
	(in.)	(mm)														
SAPFL 201 201-8 202 202-10 203 203-11	1/2 5/8 11/16	12 15 17	81	63.5	7	59	7.5	2	6.5	28.6	M6	1/4	SA201 201-8 202 202-10 203 203-11	PFL203	0.22	
SAPFL 204-12 204	3/4	20	90	71.5	8	67	9	2	7.5	30.9	M8	5/16	SA204-12 204	PFL204	0.25	
SAPFL 205-14 205-15 205 205-16	7/8 15/16 1	25	95	76	9	71	9	2	7.5	30.9	M8	5/16	SA205-14 205-15 205 205-16	PFL205	0.32	
SAPFL 206-18 206 206-19 206-20	1-1/8 1-3/16 1-1/4	30	113	90.5	9	84	10.5	2.5	9	35.7	M10	3/8	SA206-18 206 206-19 206-20	PFL206	0.41	
SAPFL 207-20 207-21 207-22 207 207-23	1-1/4 1-5/16 1-3/8 1-7/16	35	122	100	10	94	10.5	2.5	9.5	38.9	M10	3/8	SA207-20 207-21 207-22 207 207-23	PFL207	0.69	
SAPFL208-24 208-25 208	1-1/2 1-9/16	40	148	119	12	100	13.5	3.5	11	43.7	M12	1/2	SA208-24 208-25 208	PFL208	1.0	

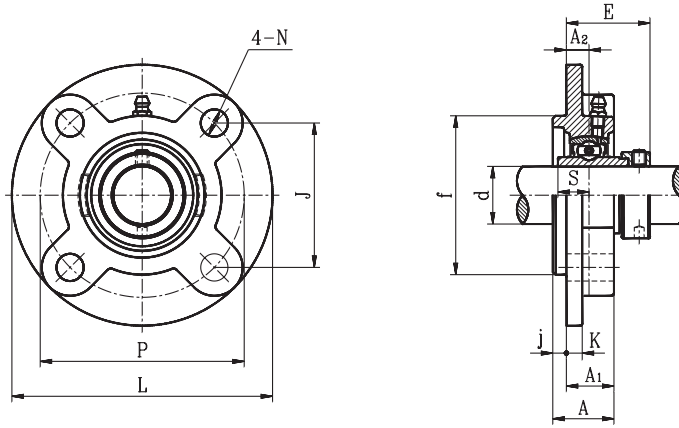


# ROUND FLANGE CARTRIDGE UNITS



## UCFC2 Setscrew type

Unit No.	Shaft Dia.		Dimensions (mm)												Bolt Size	Bearing No.	Housing No.	Mass (kg)
	d		L	P	A <sub>2</sub>	A <sub>1</sub>	A	j	K	N	J	f	S	E				
	(in.)	(mm)																
UCFC201S 201-8S 202S 202-10S 203S 203-11S	1/2 5/8 11/16	12 15 17	90	70	10	19	23	4	5	10	49.5	55	11.5	25.9	M8	UC201S 201-8S 202S 202-10S 203S 203-11S	FC203	0.56
UCFC201 201-8 202 202-10 203 203-11 204-12 204	1/2 5/8 11/16 3/4 20	12 15 17 20	100	78	10	20.5	25.5	5	6	11.5	55.1	62	12.7	28.3	M10	UC201 201-8 202 202-10 203 203-11 204-12 204	FC204	0.79
UCFC205-14 205-15 205 205-16	7/8 15/16 1	25	115	90	10	21	27	6	7	12	63.6	70	14.3	29.7	M10	UC205-14 205-15 205 205-16	FC205	0.96
UCFC206-18 206 206-19 206-20	1-1/8 1-3/16 1-1/4	30	125	100	10	23	31	8	8	12	70.7	80	15.9	32.2	M10	UC206-18 206 206-19 206-20	FC206	1.37
UCFC207-20 207-21 207-22 207 207-23	1-1/4 1-5/16 1-3/8 1-7/16	35	135	110	11	26	34	8	9	14	77.8	90	17.5	36.4	M12	UC207-20 207-21 207-22 207 207-23	FC207	1.70
UCFC208-24 208-25 208	1-1/2 1-9/16	40	145	120	11	26	36	10	9	14	84.8	100	19	41.2	M12	UC208-24 208-25 208	FC208	2.0
UCFC209-26 209-27 209-28 209	1-5/8 1-11/16 1-3/4	45	160	132	10	26	38	12	10	16	93.3	105	19	40.2	M14	UC209-26 209-27 209-28 209	FC209	2.7
UCFC210-30 210-31 210	1-7/8 1-15/16	50	165	138	10	28	40	12	14	16	97.6	110	19	42.6	M14	UC210-30 210-31 210	FC210	2.9
UCFC211-32 211-34 211 211-35	2 2-1/8 2-3/16	55	185	150	13	30	42	12	13	19	106.1	125	22.2	46.4	M16	UC211-32 211-34 211 211-35	FC211	4.2
UCFC212-36 212 212-38 212-39	2-1/4 2-3/8 2-7/16	60	195	160	17	36	48	12	15	19	113.1	135	25.4	56.7	M16	UC212-36 212 212-38 212-39	FC212	4.94
UCFC213-40 213	2-1/2	65	205	170	16	35	49	14	15	19	120.2	145	25.4	55.7	M16	UC213-40 213	FC213	5.7
UCFC214-44 214	2-3/4	70	215	177	17	38	52	14	16	19	125.1	150	30.2	61.4	M16	UC214-44 214	FC214	6.8
UCFC215 215-48	3	75	220	184	18	39	55	16	17	19	130.1	160	33.3	62.5	M16	UC215 215-48	FC215	7.2
UCFC216		80	240	200	18	42	58	16	18	23	141.4	170	33.3	67.3	M20	UC216	FC216	8.7
UCFC217-52 217	3-1/4	85	250	208	18	45	63	18	20	23	147.1	180	34.1	69.6	M20	UC217-52 217	FC217	10.3
UCFC218-56 218	3-1/2	90	265	220	22	50	68	18	20	23	155.5	190	39.7	78.3	M20	UC218-56 218	FC218	13.5



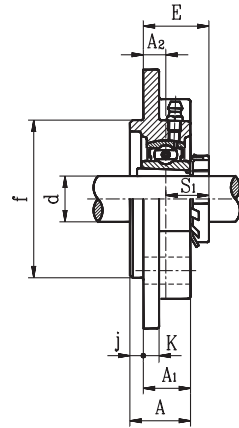
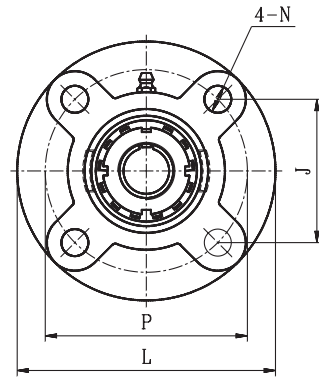
## NAFC2 Eccentric locking collar type

Unit No.	Shaft Dia.		Dimensions (mm)											Bolt Size	Bearing No.	Housing No.	Mass (kg)	
	d		L	P	A <sub>2</sub>	A <sub>1</sub>	A	j	K	N	J	f	S					E
	(in.)	(mm)																
NAFC201S 201-8S 202S 202-10S 203S 203-11S	1/2 5/8 11/16	12 15 17	90	70	10	19	23	4	5	10	49.5	55	13.9	33.4	M8	NA201S 201-8S 202S 202-10S 203S 203-11S	FC203	0.6
NAFC201 201-8 202 202-10 203 203-11 204-12 204	1/2 5/8 11/16 3/4	12 15 17 20	100	78	10	20.5	25.5	5	6	11.5	55.1	62	17	36.5	M10	NA201 201-8 202 202-10 203 203-11 204-12 204	FC204	0.83
NAFC205-14 205-15 205 205-16	7/8 15/16 1	25	115	90	10	21	27	6	7	12	63.6	70	17.4	36.9	M10	NA205-14 205-15 205 205-16	FC205	1.1
NAFC206-18 206 206-19 206-20	1-1/8 1-3/16 1-1/4	30	125	100	10	23	31	8	8	12	70.7	80	18.2	40.1	M10	NA206-18 206 206-19 206-20	FC206	1.5
NAFC207-20 207-21 207-22 207 207-23	1-1/4 1-5/16 1-3/8 1-7/16	35	135	110	11	26	34	8	9	14	77.8	90	18.8	43.3	M12	NA207-20 207-21 207-22 207 207-23	FC207	1.8
NAFC208-24 208-25 208	1-1/2 1-9/16	40	145	120	11	26	36	10	9	14	84.8	100	21.4	45.9	M12	NA208-24 208-25 208	FC208	2.2
NAFC209-26 209-27 209-28 209	1-5/8 1-11/16 1-3/4	45	160	132	10	26	38	12	10	16	93.3	105	21.4	44.9	M14	NA209-26 209-27 209-28 209	FC209	2.8
NAFC210-30 210-31 210	1-7/8 1-15/16	50	165	138	10	28	40	12	14	16	97.6	110	24.6	48.1	M14	NA210-30 210-31 210	FC210	3.3
NAFC211-32 211-34 211 211-35	2 2-1/8 2-3/16	55	185	150	13	30	42	12	13	19	106.1	125	27.7	56.6	M16	NA211-32 211-34 211 211-35	FC211	4.5
NAFC212-36 212 212-38 212-39	2-1/4 2-3/8 2-7/16	60	195	160	17	36	48	12	15	19	113.1	135	30.9	63.8	M16	NA212-36 212 212-38 212-39	FC212	5.7
NAFC213-40 213	2-1/2	65	205	170	16	35	49	14	15	19	120.2	145	34.1	67.6	M16	NA213-40 213	FC213	6.5
NAFC214-44 214	2-3/4	70	215	177	17	38	52	14	16	19	125.1	150	34.1	68.6	M16	NA214-44 214	FC214	7.2
NAFC215 215-48	3	75	220	184	18	39	55	16	17	19	130.1	160	37.3	72.8	M16	NA215 215-48	FC215	8
NAFC216		80	240	200	18	42	58	16	18	23	141.4	170	37.3	75.9	M20	NA216	FC216	9.53





# ROUND FLANGE CARTRIDGE UNITS

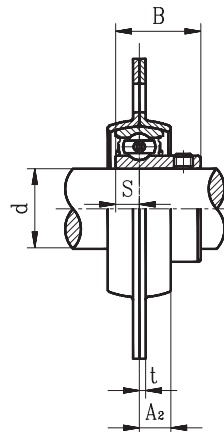
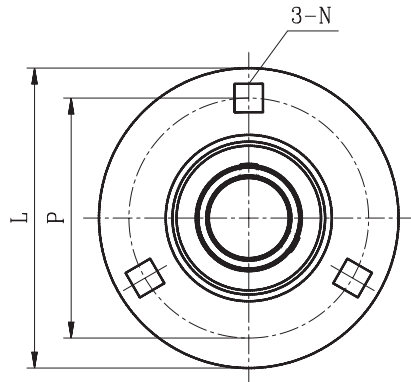


## UKFC+H Tapered bore, adapter type

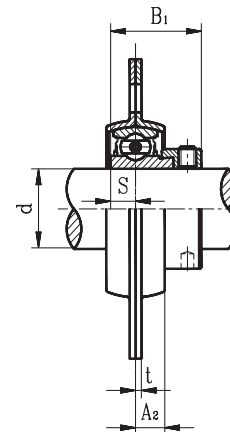
Unit No.	Shaft Dia.		Dimensions (mm)												Bolt Size	Bearing No.	Housing No.	Adapter No.	Mass (kg)
	d		L	P	A <sub>2</sub>	A <sub>1</sub>	A	j	K	N	J	f	S <sub>1</sub>	E					
	(in.)	(mm)																	
UKFC205+HE2305 205+H2305	3/4	20	115	90	10	21	27	6	7	12	63.6	70	18.5	28.5	M10	UK205	FC205	HE2305 H2305	0.98
UKFC206+HS2306 206+HA2306 206+H2306 206+HE2306	7/8 15/16 1	25	125	100	10	23	31	8	8	12	70.7	80	20.5	30.5	M10	UK206	FC206	HS2306 HA2306 H2306 HE2306	1.2
UKFC207+HS2307 207+H2307 207+HA2307	1-1/8 1-3/16	30	135	110	11	26	34	8	9	14	77.8	90	22.5	33.5	M12	UK207	FC207	HS2307 H2307 HA2307	1.7
UKFC208+HE2308 208+HS2308 208+H2308	1-1/4 1-3/8	35	145	120	11	26	36	10	9	14	84.8	100	24.5	35.5	M12	UK208	FC208	HE2308 HS2308 H2308	2.0
UKFC209+HA2309 209+HE2309 209+H2309	1-7/16 1-1/2	40	160	132	10	26	38	12	10	16	93.3	105	26	36	M14	UK209	FC209	HA2309 HE2309 H2309	2.7
UKFC210+HS2310 210+HA2310 210+HE2310 210+H2310	1-5/8 1-11/16 1-3/4	45	165	138	10	28	40	12	14	16	97.6	110	27.5	37.5	M14	UK210	FC210	HS2310 HA2310 HE2310 H2310	3.0
UKFC211+HS2311 211+HA2311 211+H2311 211+HE2311	1-7/8 1-15/16 2	50	185	150	13	30	42	12	13	19	106.1	125	28.5	41.5	M16	UK211	FC211	HS2311 HA2311 H2311 HE2311	4.2
UKFC212+HS2312 212+H2312	2-1/8	55	195	160	17	36	48	12	15	19	113.1	135	31	48	M16	UK212	FC212	HS2312 H2312	4.9
UKFC213+HA2313 213+HE2313 213+H2313 213+HS2313	2-3/16 2-1/4 2-3/8	60	205	170	16	35	49	14	15	19	120.2	145	32	48	M16	UK213	FC213	HA2313 HE2313 H2313 HS2313	5.6
UKFC215+HA2315 215+HE2315 215+H2315	2-7/16 2-1/2	65	220	184	18	39	55	16	17	19	130.1	160	35.5	53.5	M16	UK215	FC215	HA2315 HE2315 H2315	7.5
UKFC216+HA2316 216+HE2316 216+H2316	2-11/16 2-3/4	70	240	200	18	42	58	16	18	23	141.4	170	39	57	M20	UK216	FC216	HA2316 HE2316 H2316	8.9
UKFC217+HA2317 217+H2317 217+HE2317	2-15/16 3	75	250	208	18	45	63	18	20	23	147.1	180	40	58	M20	UK217	FC217	HA2317 H2317 HE2317	10.4
UKFC218+H2318		80	265	220	22	50	68	18	20	23	155.5	190	42	64	M20	UK218	FC218	H2318	13.3



# PRESSED HOUSING ROUND FLANGE UNITS



**SBPF2**  
Setscrew type

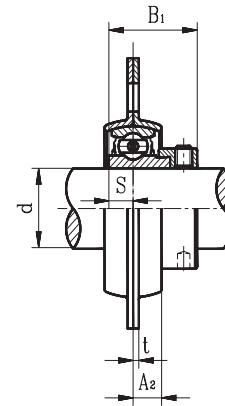
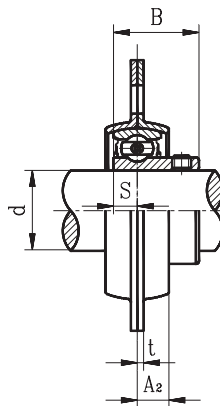
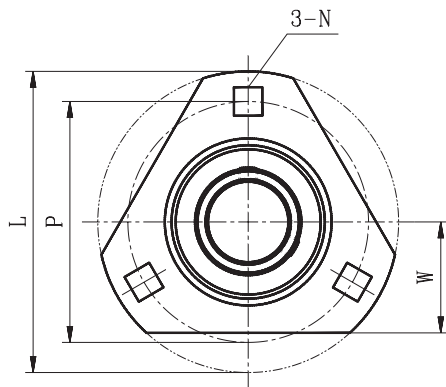


**SAPF2**  
Eccentric locking collar type

Unit No.	Shaft Dia.		Dimensions (mm)							Bolt size		Bearing No.	Housing No.	Mass (kg)
	d		L	P	A <sub>2</sub>	t	N <sup>⊙</sup>	S	B					
	(in.)	(mm)												
SBPF201 201-8 202 202-10 203 203-11	1/2 5/8 11/16	12 15 17										SB201 201-8 202 202-10 203 203-11		0.27 0.27 0.26
SBPF204-12 204	3/4	20	91	71	8	2	9	7	25	5/16	M8	SB204-12 204	PF204	0.3
SBPF205-14 205-15 205 205-16	7/8 15/16 1	25	95	76	9	2	9	7.5	27	5/16	M8	SB205-14 205-15 205 205-16	PF205	0.38
SBPF206-18 206 206-19 206-20	1-1/8 1-3/16 1-1/4	30	113	90	9	2.5	10.5	8	30	3/8	M10	SB206-18 206 206-19 206-20	PF206	0.62
SBPF207-20 207-21 207-22 207 207-23	1-1/4 1-5/16 1-3/8 1-7/16	35	122	100	10	2.5	10.5	8.5	32	3/8	M10	SB207-20 207-21 207-22 207 207-23	PF207	0.82
SBPF208-24 208-25 208	1-1/2 1-9/16	40	148	119	12	3.5	13.5	9	34	1/2	M12	SB208-24 208-25 208	PF208	1.1

Unit No.	Shaft Dia.		Dimensions (mm)							Bolt size		Bearing No.	Housing No.	Mass (kg)
	d		L	P	A <sub>2</sub>	t	N <sup>⊙</sup>	S	B <sub>1</sub>					
	(in.)	(mm)												
SAPF201 201-8 202 202-10 203 203-11	1/2 5/8 11/16	12 15 17										SA201 201-8 202 202-10 203 203-11		0.29 0.29 0.28
SAPF204-12 204	3/4	20	91	71	8	2	9	7.5	30.9	5/16	M8	SA204-12 204	PF204	0.31
SAPF205-14 205-15 205 205-16	7/8 15/16 1	25	95	76	9	2	9	7.5	30.9	5/16	M8	SA205-14 205-15 205 205-16	PF205	0.41
SAPF206-18 206 206-19 206-20	1-1/8 1-3/16 1-1/4	30	113	90	9	2.5	10.5	9	35.7	3/8	M10	SA206-18 206 206-19 206-20	PF206	0.67
SAPF207-20 207-21 207-22 207 207-23	1-1/4 1-5/16 1-3/8 1-7/16	35	122	100	10	2.5	10.5	9.5	38.9	3/8	M10	SA207-20 207-21 207-22 207 207-23	PF207	0.87
SAPF208-24 208-25 208	1-1/2 1-9/16	40	148	119	12	3.5	13.5	11	43.7	1/2	M12	SA208-24 208-25 208	PF208	1.3

Remarks: ⊙ SBPF208 and SAPF208 have four bolt holes.

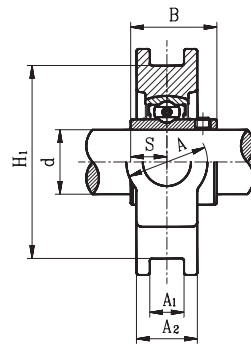
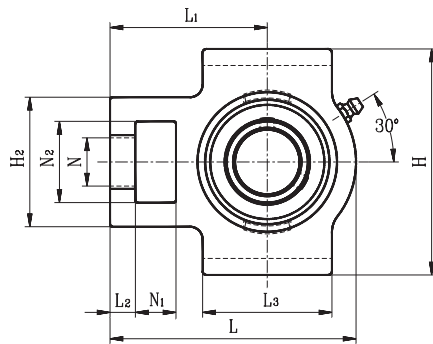


**SBPFT2**  
Setscrew type

**SAPFT2**  
Eccentric locking collar type

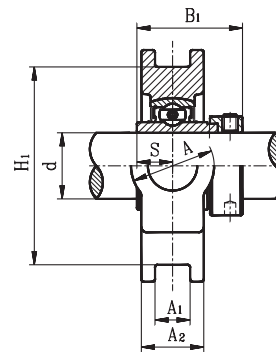
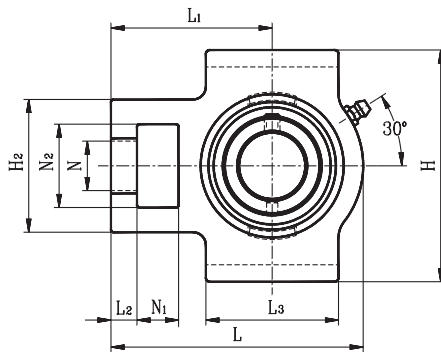
Unit No.	Shaft Dia.		Dimensions (mm)								Bolt size		Bearing No.	Housing No.	Mass (kg)
	d		L	P	A <sub>2</sub>	t	N	W	S	B					
	(in.)	(mm)													
SBPFT201 201-8 202 202-10 203 203-11		12	82	64	7	2	7.5	29	6	22	1/4	M6	SB201 201-8 202 202-10 203 203-11	PFT203	0.27
	1/2	15													
	5/8	17													
	11/16														
SBPFT204-12 204	3/4	20	91	71	8	2	9	33	7	25	5/16	M8	SB204-12 204	PFT204	0.3
SBPFT205-14 205-15 205 205-16		25	95	76	9	2	9	35	7.5	27	5/16	M8	SB205-14 205-15 205 205-16	PFT205	0.38
	7/8														
	15/16														
	1														
SBPFT206-18 206 206-19 206-20		30	113	90	9	2.5	10.5	38	8	30	3/8	M10	SB206-18 206 206-19 206-20	PFT206	0.62
	1-1/8														
	1-3/16														
	1-1/4														
SBPFT207-20 207-21 207-22 207 207-23		35	122	100	10	2.5	10.5	45	8.5	32	3/8	M10	SB207-20 207-21 207-22 207 207-23	PFT207	0.82
	1-1/4														
	1-5/16														
	1-3/8														
	1-7/16														

Unit No.	Shaft Dia.		Dimensions (mm)								Bolt size		Bearing No.	Housing No.	Mass (kg)
	d		L	P	A <sub>2</sub>	t	N	W	S	B <sub>1</sub>					
	(in.)	(mm)													
SAPFT201 201-8 202 202-10 203 203-11		12	82	64	7	2	7.5	29	6.5	28.6	1/4	M6	SA201 201-8 202 202-10 203 203-11	PFT203	0.29
	1/2	15													
	5/8	17													
	11/16														
SAPFT204-12 204	3/4	20	91	71	8	2	9	33	7.5	30.9	5/16	M8	SA204-12 204	PFT204	0.31
SAPFT205-14 205-15 205 205-16		25	95	76	9	2	9	35	7.5	30.9	5/16	M8	SA205-14 205-15 205 205-16	PFT205	0.41
	7/8														
	15/16														
	1														
SAPFT206-18 206 206-19 206-20		30	113	90	9	2.5	10.5	38	9	35.7	3/8	M10	SA206-18 206 206-19 206-20	PFT206	0.67
	1-1/8														
	1-3/16														
	1-1/4														
SAPFT207-20 207-21 207-22 207 207-23		35	122	100	10	2.5	10.5	45	9.5	38.9	3/8	M10	SA207-20 207-21 207-22 207 207-23	PFT207	0.87
	1-1/4														
	1-5/16														
	1-3/8														
	1-7/16														



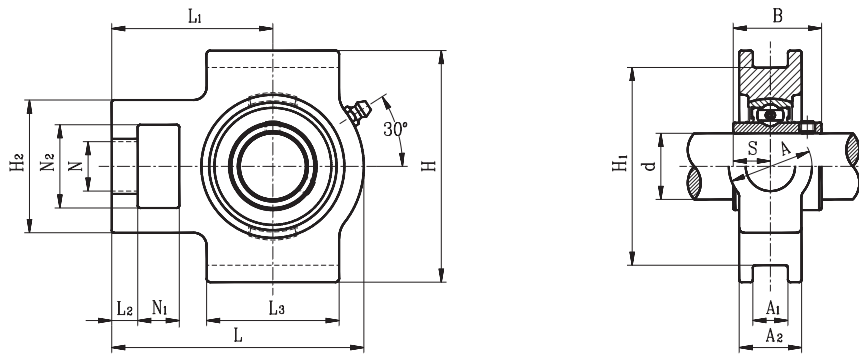
## UCT2 Setscrew type

Unit No.	Shaft Dia.		Dimensions (mm)														Bearing No.	Housing No.	Mass (kg)	
	d		N1	L2	H2	N2	N	L3	A1	H1	H	L	A	A2	L1	B				S
	(in.)	(mm)																		
UCT201S 201-8S 202S 202-10S 203S 203-11S	1/2 5/8 11/16	12 15 17	15	9	46	31	18	46	12	70	82	88	30	21	58	27.4	11.5	UC201S 201-8S 202S 202-10S 203S 203-11S	T203	0.70
UCT201 201-8 202 202-10 203 203-11 204-12 204	1/2 5/8 11/16 3/4	12 15 17 20	16	10	51	32	19	51	12	76	89	94	32	21	61	31	12.7	UC201 201-8 202 202-10 203 203-11 204-12 204	T204	0.82
UCT205-14 205-15 205 205-16	7/8 15/16 1	25	16	10	51	32	19	51	12	76	89	97	32	24	62	34	14.3	UC205-14 205-15 205 205-16	T205	0.88
UCT206-18 206 206-19 206-20	1-1/8 1-3/16 1-1/4	30	16	10	56	37	22	57	12	89	102	113	37	28	70	38.1	15.9	UC206-18 206 206-19 206-20	T206	1.3
UCT207-20 207-21 207-22 207 207-23	1-1/4 1-5/16 1-3/8 1-7/16	35	16	13	64	37	22	64	12	89	102	129	37	30	78	42.9	17.5	UC207-20 207-21 207-22 207 207-23	T207	1.7
UCT208-24 208-25 208	1-1/2 1-9/16	40	19	16	83	49	29	83	16	102	114	144	49	33	88	49.2	19	UC208-24 208-25 208	T208	2.5
UCT209-26 209-27 209-28 209	1-5/8 1-11/16 1-3/4	45	19	16	83	49	29	83	16	102	117	144	49	35	87	49.2	19	UC209-26 209-27 209-28 209	T209	2.5
UCT210-30 210-31 210	1-7/8 1-15/16	50	19	16	83	49	29	86	16	102	117	149	49	37	90	51.6	19	UC210-30 210-31 210	T210	2.6
UCT211-32 211-34 211 211-35	2 2-1/8 2-3/16	55	25	19	102	64	35	95	22	130	146	171	64	38	106	55.6	22.2	UC211-32 211-34 211 211-35	T211	4.0
UCT212-36 212 212-38 212-39	2-1/4 2-3/8 2-7/16	60	32	19	102	64	35	102	22	130	146	194	64	42	119	65.1	25.4	UC212-36 212 212-38 212-39	T212	4.9
UCT213-40 213	2-1/2	65	32	21	111	70	41	121	26	151	167	224	70	44	137	65.1	25.4	UC213-40 213	T213	7.0
UCT214-44 214	2-3/4	70	32	21	111	70	41	121	26	151	167	224	70	46	137	74.6	30.2	UC214-44 214	T214	7.1
UCT215 215-48	3	75	32	21	111	70	41	121	26	151	167	232	70	48	140	77.8	33.3	UC215 215-48	T215	7.5
UCT216		80	32	21	111	70	41	121	26	165	184	235	70	51	140	82.6	33.3	UC216	T216	8.2
UCT217-52 217	3-1/4	85	38	29	124	73	48	157	30	173	198	260	73	54	162	85.7	34.1	UC217-52 217	T217	11.0



## NAT2 Eccentric locking collar type

Unit No.	Shaft Dia.		Dimensions (mm)														Bearing No.	Housing No.	Mass (kg)	
	d		N1	L2	H2	N2	N	L3	A1	H1	H	L	A	A2	L1	B1				S
	(in.)	(mm)																		
NAT201S 201-8S 202S 202-10S 203S 203-11S	1/2 5/8 11/16	12 15 17	15	9	46	31	18	46	12	70	82	88	30	21	58	37.3	13.9	NA201S 201-8S 202S 202-10S 203S 203-11S	T203	0.78
NAT201 201-8 202 202-10 203 203-11 204-12 204	1/2 5/8 11/16 3/4 20	12 15 17 20	16	10	51	32	19	51	12	76	89	94	32	21	61	43.5	17	NA201 201-8 202 202-10 203 203-11 204-12 204	T204	0.87
NAT205-14 205-15 205 205-16	7/8 15/16 1	25	16	10	51	32	19	51	12	76	89	97	32	24	62	44.3	17.4	NA 205-14 205-15 205 205-16	T205	0.92
NAT206-18 206 206-19 206-20	1-1/8 1-3/16 1-1/4	30	16	10	56	37	22	57	12	89	102	113	37	28	70	48.3	18.2	NA 206-18 206 206-19 206-20	T206	1.39
NAT207-20 207-21 207-22 207 207-23	1-1/4 1-5/16 1-3/8 1-7/16	35	16	13	64	37	22	64	12	89	102	129	37	30	78	51.1	18.8	NA 207-20 207-21 207-22 207 207-23	T207	1.83
NAT208-24 208-25 208	1-1/2 1-9/16	40	19	16	83	49	29	83	16	102	114	144	49	33	88	56.3	21.4	NA 208-24 208-25 208	T208	2.64
NAT209-26 209-27 209-28 209	1-5/8 1-11/16 1-3/4	45	19	16	83	49	29	83	16	102	117	144	49	35	87	56.3	21.4	NA 209-26 209-27 209-28 209	T209	2.67
NAT210-30 210-31 210	1-7/8 1-15/16	50	19	16	83	49	29	86	16	102	117	149	49	37	90	62.7	24.6	NA 210-30 210-31 210	T210	2.81
NAT211-32 211-34 211 211-35	2 2-1/8 2-3/16	55	25	19	102	64	35	95	22	130	146	171	64	38	106	71.3	27.7	NA 211-32 211-34 211 211-35	T211	4.27
NAT212-36 212 212-38 212-39	2-1/4 2-3/8 2-7/16	60	32	19	102	64	35	102	22	130	146	194	64	42	119	77.7	30.9	NA 212-36 212 212-38 212-39	T212	5.26
NAT213-40 213	2-1/2	65	32	21	111	70	41	121	26	151	167	224	70	44	137	85.7	34.1	NA 213-40 213	T213	7.55
NAT214-44 214	2-3/4	70	32	21	111	70	41	121	26	151	167	224	70	46	137	85.7	34.1	NA 214-44 214	T214	7.62
NAT215 215-48	3	75	32	21	111	70	41	121	26	151	167	232	70	48	140	92.1	37.3	NA 215 215-48	T215	8.13
NAT216		80	32	21	111	70	41	121	26	165	184	235	70	51	140	95.2	37.3	NA 216	T216	8.53
NAT217-52 217	3-1/4	85	38	29	124	73	48	157	30	173	198	260	73	54	162	73.2	23.4	NA 217-52 217	T217	

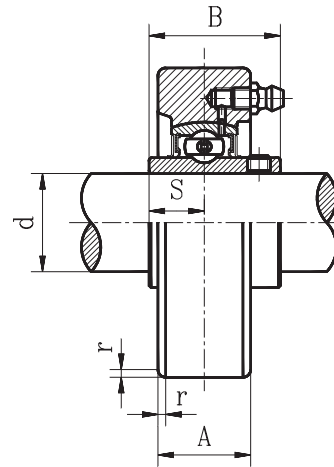
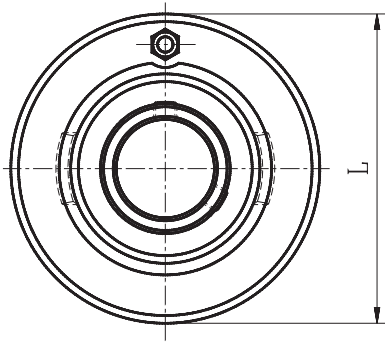


## UCST2 Setscrew type

Unit No.	Shaft Dia.		Dimensions (mm)															Bearing No.	Housing No.	Mass (kg)
	d		N1	L2	H2	N2	N	L3	A1	H1	H	L	A	A2	L1	B	S			
	(in.)	(mm)																		
UCST201 201-8 202 202-10 203 203-11 204-12 204	1/2 5/8 11/16 3/4	12 15 17 20																UC201 201-8 202 202-10 203 203-11 204-12 204	ST204	0.82
UCST205-14 205-15 205 205-16	7/8 15/16 1	25	16	10	51	32	19	51	13.5	76	89	97	32	24	62	34	14.3	UC 205-14 205-15 205 205-16	ST205	0.88
UCST206-18 206 206-19 206-20	1-1/8 1-3/16 1-1/4	30	16	10	56	37	22	57	13.5	89	102	113	37	28	70	38.1	15.9	UC 206-18 206 206-19 206-20	ST206	1.3
UCST207-20 207-21 207-22 207 207-23	1-1/4 1-5/16 1-3/8 1-7/16	35	16	13	64	37	22	64	13.5	89	102	129	37	30	78	42.9	17.5	UC 207-20 207-21 207-22 207 207-23	ST207	1.7
UCST208-24 208-25 208	1-1/2 1-9/16	40	19	16	83	49	29	83	17.5	102	114	144	49	33	88	49.2	19	UC 208-24 208-25 208	ST208	2.5
UCST209-26 209-27 209-28 209	1-5/8 1-11/16 1-3/4	45	19	16	83	49	29	83	17.5	102	117	144	49	35	87	49.2	19	UC 209-26 209-27 209-28 209	ST209	2.5
UCST210-30 210-31 210	1-7/8 1-15/16	50	19	16	83	49	29	86	17.5	102	117	149	49	37	90	51.6	19	UC 210-30 210-31 210	ST210	2.6
UCST211-32 211-34 211 211-35	2 2-1/8 2-3/16	55	25	19	102	64	35	95	27	130	146	171	64	38	106	55.6	22.2	UC 211-32 211-34 211 211-35	ST211	4.0
UCST212-36 212 212-38 212-39	2-1/4 2-3/8 2-7/16	60	32	19	102	64	35	102	27	130	146	194	64	42	119	65.1	25.4	UC 212-36 212 212-38 212-39	ST212	4.9

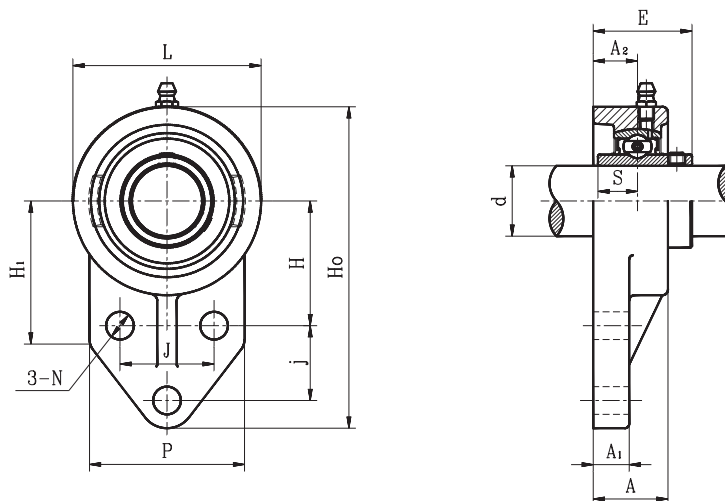


# CYLINDRICAL CARTRIDGE UNITS



## UCC2 Setscrew type

Unit No.	Shaft Dia.		Dimensions (mm)					Bearing No.	Housing No.	Mass (kg)
	d		L	A	S	B	r			
	(in.)	(mm)								
UCC201S 201-8S 202S 202-10S 203S 203-11S	1/2 5/8 11/16	12 15 17	67	20	11.5	27.4	1.5	UC201S 201-8S 202S 202-10S 203S 203-11S	C203	0.4
UCC201 201-8 202 202-10 203 203-11 204-12 204	1/2 5/8 11/16 3/4	12 15 17 20	72	20	12.7	31	1.5	UC201 201-8 202 202-10 203 203-11 204-12 204	C204	0.53
UCC205-14 205-15 205 205-16	7/8 15/16 1	25	80	22	14.3	34	1.5	UC 205-14 205-15 205 205-16	C205	0.65
UCC206-18 206 206-19 206-20	1-1/8 1-3/16 1-1/4	30	85	27	15.9	38.1	1.5	UC 206-18 206 206-19 206-20	C206	0.82
UCC207-20 207-21 207-22 207 207-23	1-1/4 1-5/16 1-3/8 1-7/16	35	90	28	17.5	42.9	2	UC 207-20 207-21 207-22 207 207-23	C207	0.94
UCC208-24 208-25 208	1-1/2 1-9/16	40	100	30	19	49.2	2	UC 208-24 208-25 208	C208	1.3
UCC209-26 209-27 209-28 209	1-5/8 1-11/16 1-3/4	45	110	31	19	49.2	2	UC 209-26 209-27 209-28 209	C209	1.6
UCC210-30 210-31 210 210-32	1-7/8 1-15/16 2	50	120	33	19	51.6	2	UC 210-30 210-31 210 210-32	C210	2
UCC211-32 211-34 211 211-35	2 2-1/8 2-3/16	55	125	35	22.2	55.6	2.5	UC 211-32 211-34 211 211-35	C211	2.2
UCC212-36 212 212-38 212-39	2-1/4 2-3/8 2-7/16	60	130	38	25.4	65.1	2.5	UC 212-36 212 212-38 212-39	C212	2.6
UCC213-40 213	2-1/2	65	140	40	25.4	65.1	2.5	UC 213-40 213	C213	3.1



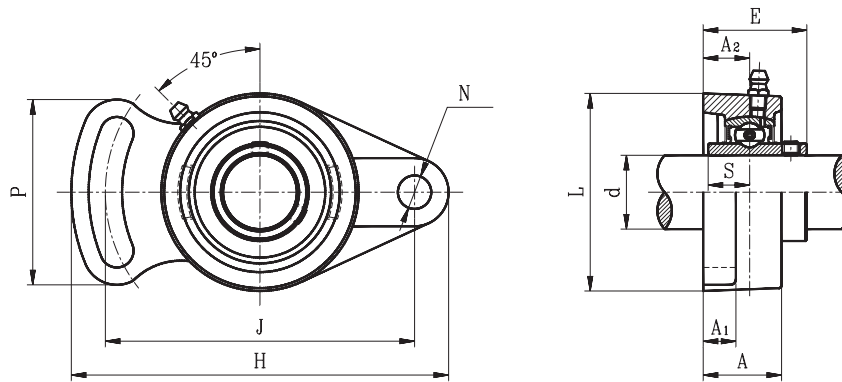
## UCFB2 Setscrew type

Unit No.	Shaft Dia.		Dimensions (mm)													Bolt Size	Bearing No.	Housing No.	Mass (kg)
	d		Ho	L	H1	P	H	j	J	A	A1	A2	N	E	S				
	(in.)	(mm)																	
UCFB201S 201-8S 202S 202-10S 203S 203-11S	1/2 5/8 11/16	12 15 17	104	55	50	49	40	27	30	23.5	10	14	10	29.9	11.5	M8	UC201S 201-8S 202S 202-10S 203S 203-11S	FB203	0.42
UCFB201 201-8 202 202-10 203 203-11 204-12 204	1/2 5/8 11/16 3/4 20	12 15 17	109	60	52	52	42	27	32	25.5	11	15	10	33.3	12.7	M8	UC201 201-8 202 202-10 203 203-11 204-12 204	FB204	0.65
UCFB205-14 205-15 205 205-16	7/8 15/16 1	25	116	68	52	56	45	27	34	27	13	16	10	35.7	14.3	M8	UC205-14 205-15 205 205-16	FB205	0.69
UCFB206-18 206 206-19 206-20	1-1/8 1-3/16 1-1/4	30	132	80	55	65	50	29	40	31	13	18	10	40.2	15.9	M8	UC206-18 206 206-19 206-20	FB206	0.93
UCFB207-20 207-21 207-22 207 207-23	1-1/4 1-5/16 1-3/8 1-7/16	35	144	90	62	70	55	32	46	33	14	19	10	44.4	17.5	M8	UC207-20 207-21 207-22 207 207-23	FB207	1.3
UCFB208-24 208-25 208	1-1/2 1-9/16	40	164	100	72	78	60	41	50	35	17	21	12	51.2	19	M10	UC208-24 208-25 208	FB208	1.8
UCFB209-26 209-27 209-28 209	1-5/8 1-11/16 1-3/4	45	175	108	76	80	65	43	54	38	16	22	12	52.2	19	M10	UC209-26 209-27 209-28 209	FB209	2.0
UCFB210-30 210-31 210 210-32	1-7/8 1-15/16 2	50	184	114	82	86	68	46	58	39	16	22	12	54.6	19	M10	UC210-30 210-31 210 210-32	FB210	2.3
UCFB211-32 211-34 211 211-35	2 2-1/8 2-3/16	55	207	128	86	90	78	50	62	42.5	18	25	14	58.4	22.2	M12	UC211-32 211-34 211 211-35	FB211	
UCFB212-36 212 212-38 212-39	2-1/4 2-3/8 2-7/16	60	224	140	90	94	84	55	66	47.5	19	29	14	68.7	25.4	M12	UC212-36 212 212-38 212-39	FB212	
UCFB213-40 213	2-1/2	65	244	152	95	102	92	60	70	49	20	30	14	69.7	25.4	M12	UC213-40 213	FB213	





# ADJUSTABLE FLANGE UNITS

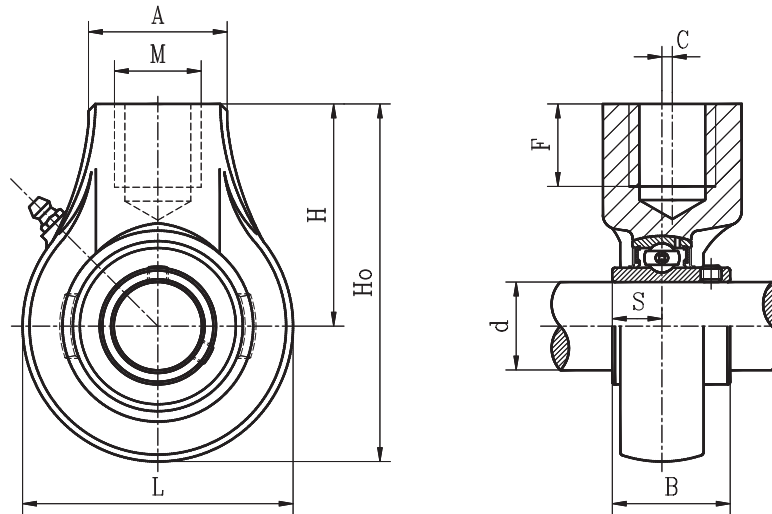


## UCFA2 Setscrew type

Unit No.	Shaft Dia.		Dimensions(mm)									Bolt Size	Bearing No.	Housing No.	Mass (kg)	
	d		H	J	L	P	A <sub>1</sub>	A <sub>2</sub>	A	N	E					S
	(in.)	(mm)														
UCFA201S 201-8S 202S 202-10S 203S 203-11S	1/2 5/8 11/16	12 15 17	95	75	57	47	9	13	22	10	28.9	11.5	M8	UC201S 201-8S 202S 202-10S 203S 203-11S	FA203	0.37
UCFA201 201-8 202 202-10 203 203-11 204-12 204	1/2 5/8 11/16 3/4	12 15 17 20	98	78	59	50	11	13.74	24	10	32.04	12.7	M8	UC201 201-8 202 202-10 203 203-11 204-12 204	FA204	0.48
UCFA205-14 205-15 205 205-16	7/8 15/16 1	25	122	96	70	64	13	16	27	12	35.7	14.3	M8	UC205-14 205-15 205 205-16	FA205	0.69
UCFA206-18 206 206-19 206-20	1-1/8 1-3/16 1-1/4	30	141	115	80	68	14	18	30.5	12	40.2	15.9	M8	UC206-18 206 206-19 206-20	FA206	1.0
UCFA207-20 207-21 207-22 207 207-23	1-1/4 1-5/16 1-3/8 1-7/16	35	155	128	92	75	15	19	33	13	44.4	17.5	M8	UC207-20 207-21 207-22 207 207-23	FA207	1.5
UCFA208-24 208-25 208	1-1/2 1-9/16	40	171	144	105	84	14	21	38	13	51.2	19	M10	UC208-24 208-25 208	FA208	1.8
UCFA209-26 209-27 209-28 209	1-5/8 1-11/16 1-3/4	45	178	146	108	88	16	22	38	16	52.2	19	M10	UC209-26 209-27 209-28 209	FA209	2.1
UCFA210-30 210-31 210 210-32	1-7/8 1-15/16 2	50	188	155	114	92	16	22	39	16	54.6	19	M10	UC210-30 210-31 210 210-32	FA210	2.3
UCFA211-32 211-34 211 211-35	2 2-1/8 2-3/16	55	216	182	128	102	18	25	42.5	16	58.4	22.2	M12	UC211-32 211-34 211 211-35	FA211	3.6
UCFA212-36 212 212-38 212-39	2-1/4 2-3/8 2-7/16	60	238	202	140	122	19	29	47.5	18	68.7	25.4	M12	UC212-36 212 212-38 212-39	FA212	
UCFA213-40 213	2-1/2	65	248	210	152	126	20	30	49	18	69.7	25.4	M12	UC213-40 213	FA213	

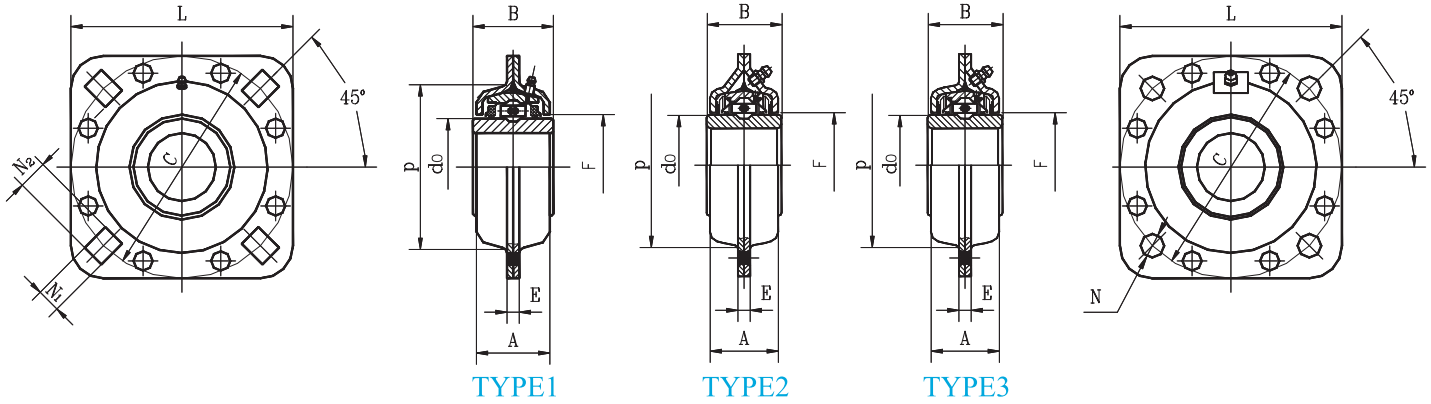


# HANGER UNITS



## UCHA2 Setscrew type

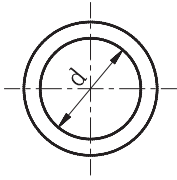
Unit No.	Shaft Dia.		Dimensions (mm)									Bearing No.	Housing No.	Mass (kg)
	d		Ho	L	C	H	A	F	M	B	S			
	(in.)	(mm)												
UCHA201S 201-8S 202S 202-10S 203S 203-11S	1/2 5/8 11/16	12 15 17	88.5	57	0	60	38	19	G3/4	27.4	11.5	UC201S 201-8S 202S 202-10S 203S 203-11S	HA203	0.6
UCHA201 201-8 202 202-10 203 203-11 204-12 204	1/2 5/8 11/16 3/4	12 15 17 20	96	64	0	64	40	19	G3/4	31	12.7	UC201 201-8 202 202-10 203 203-11 204-12 204	HA204	0.73
UCHA205-14 205-15 205 205-16	7/8 15/16 1	25	103	78	0	64	40	19	G3/4	34	14.3	UC205-14 205-15 205 205-16	HA205	0.88
UCHA206-18 206 206-19 206-20	1-1/8 1-3/16 1-1/4	30	103	78	0	64	40	19	G3/4	38.1	15.9	UC206-18 206 206-19 206-20	HA206	1.0
UCHA207-20 207-21 207-22 207 207-23	1-1/4 1-5/16 1-3/8 1-7/16	35	116	92	0	70	40	19	G3/4	42.9	17.5	UC207-20 207-21 207-22 207 207-23	HA207	1.2
UCHA208-24 208-25 208	1-1/2 1-9/16	40	121	96	2	73	40	19	G3/4	49.2	19	UC208-24 208-25 208	HA208	1.3
UCHA209-26 209-27 209-28 209	1-5/8 1-11/16 1-3/4	45	136	108	5	82	48	21	G1	49.2	19	UC209-26 209-27 209-28 209	HA209	1.8
UCHA210-30 210-31 210 210-32	1-7/8 1-15/16 2	50	140.5	115	5	83	48	21	G1	51.6	19	UC210-30 210-31 210 210-32	HA210	2.1
UCHA211-32 211-34 211 211-35	2 2-1/8 2-3/16	55	150	126	7	87	60	24	G1-1/4	55.6	22.2	UC211-32 211-34 211 211-35	HA211	2.8
UCHA212-36 212 212-38 212-39	2-1/4 2-3/8 2-7/16	60	173	142	9	102	60	28	G1-1/4	65.1	25.4	UC212-36 212 212-38 212-39	HA212	3.9
UCHA213-40 213	2-1/2	65	200	166	9.5	117	70	32	G1-1/2	65.1	25.4	UC213-40 213	HA213	5.9
UCHA214-44 214	2-3/4	70	200	166	9.5	117	70	32	G1-1/2	74.6	30.2	UC214-44 214	HA214	5.9
UCHA215-47 215 215-48	2-15/16 3	75	200	166	9.5	117	70	32	G1-1/2	77.8	33.2	UC215-47 215 215-48	HA215	5.9



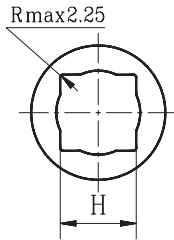
TYPE1

TYPE2

TYPE3



ROUND BORE (RD)



SQUARE BORE (SQ)

The disk harrow unit is available in two basic size groups, one incorporating a 209 and one a 211 bearing, both size groups offer these outstanding features.

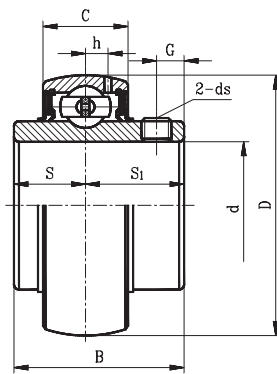
- ✘ Dynamic alignment capability ( $\pm 3^\circ$ ).
- ✘ Shroud effect from close clearance of stamping to inner ring.
- ✘ Relubrication.
- ✘ One unit piece for ease of handling and assembly.
- ✘ Fitting flange mates with outer ring milled recess, preventing possibility of outer ring circumferential movement.

209 Series

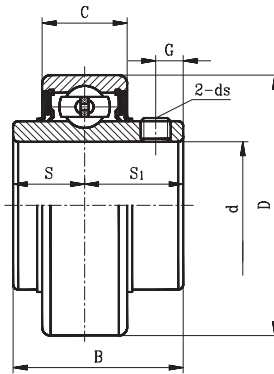
Unit No.	TYPE	Bearing Bore Size (mm)		Dimensions (mm)									Basic Dynamic Load Rating (N)	Basic Static Load Rating (N)																			
		H (SQ)	d (RD)	L	P	B	A	F	do	E	C	N (N1×N2)																					
ST491A	1	--	45	127	98	42.8	42	60	57.547	7	127	Φ 13.5	31850	17500																			
ST491A-I	2	--					37								13.5×16.7																		
ST491A-II	3	--					42																										
DHU45R-209	1	--	38.86				127					98			42.8	42	60	57.547	7	127	Φ 13.5	31850	17500										
ST491B	1	--														37								13.5×16.7									
ST491B-I	2	--														42																	
ST491B-II	3	--	29.927													127					98			42.8	42	60	57.547	7	127	13.5×16.7	31850	17500	
ST209-1 1/8	1	--																							37								13.5×16.7
ST209-1 1/8-I	2	--																							42								
ST209-1 1/8-II	3	--	--	127	98	42.8		42	60	57.547	7		127	13.5×16.7											31850					17500			
ST209-1 1/8-I	2	--	37					13.5×16.7																									
ST209-1 1/8-II	3	--	--																														

211 Series

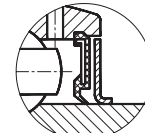
Unit No.	TYPE	Bearing Bore Size (mm)		Dimensions (mm)									Basic Dynamic Load Rating (N)	Basic Static Load Rating (N)								
		H (SQ)	d (RD)	L	P	B	A	F	do	E	C	N (N1×N2)										
DHU55R-211	1	--	55	139.7	113.5	55.5	46.4	73	69	9	139.7	13.5×15.1	43550	25000								
DHU55R-211-I	2	--					51	71							8							
ST211-1 3/4	1	--	45.212				46.4	73							9	139.7	Φ 13.5					
ST211-2 3/16	1	--	55.575									42						71	8			
ST211-2 3/16-I	2	--	40.878									51						46.4	73	9	13.5×15.1	
DHU40S-211	1	40.878	--				42	71							8							
FD211-1 1/2	2	38.89	--				139.7	113.5				55.5			46.4	73	69	9	139.7	13.5×15.1	43550	25000
DHU55R-211	1	--	51												71	8						
DHU55R-211-I	2	--	45.212												46.4	73						
ST211-1 3/4	1	--	55.575	42	71	8																
ST211-2 3/16	1	--	40.878	51	46.4	73			9	13.5×15.1												
ST211-2 3/16-I	2	--	40.878								--		42	71	8							
DHU40S-211	1	40.878	--	139.7	113.5	55.5			46.4	73	69		9	139.7	13.5×15.1	43550				25000		
DHU55R-211	1	--	51						71	8												
DHU55R-211-I	2	--	45.212						46.4	73												
ST211-1 3/4	1	--	55.575				42	71				8										
ST211-2 3/16	1	--	40.878				51	46.4				73			9		13.5×15.1					
ST211-2 3/16-I	2	--	40.878						--	42								71	8			



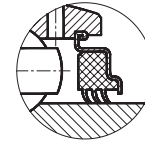
**UC2**  
Setscrew type



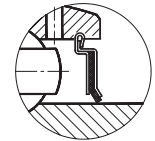
**RB2**  
Cylindrical O.D.



Dual seals

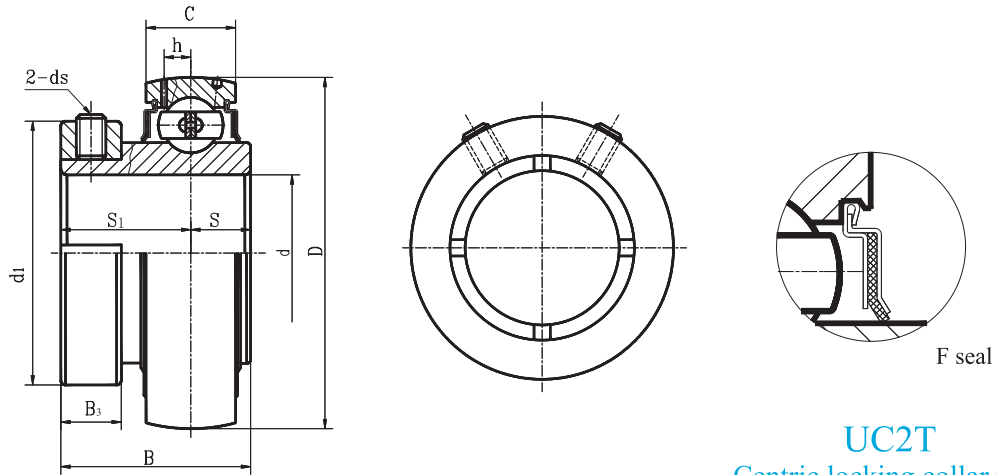


Tripple-lip seal  
(+Suffix-R3)



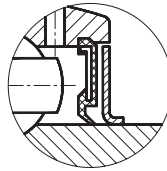
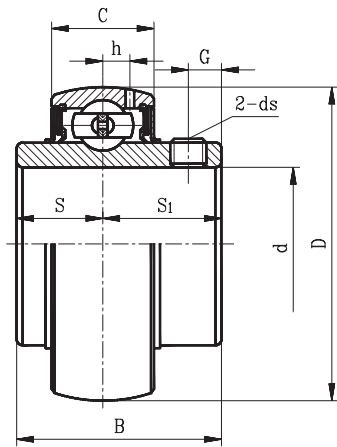
F seal  
(+Suffix-F)

Bearing No.	Shaft Dia.		Dimensions (mm)/(in.)								Basic load rating (N)		Mass (kg)	
	d (in.)	d (mm)	D	B	C	S	S <sub>1</sub>	G	h	ds	Dynamic Cr	Static Cor	UC	RB
UC201S RB201-8S 202S 202-10S 203S 203-11S	1/2 5/8 11/16	12 15 17	40 1.5748	27.4 1.0787	14 0.5512	11.5 0.4528	15.9 0.6260	4.2 0.1654	3.5 0.1378	M5X0.8 10 #32UNF	9550	4780	0.13 0.13 0.12 0.12 0.11 0.11	--
UC201 RB201-8 202 202-10 203 203-11 204-12 204	1/2 5/8 11/16 3/4 20	12 15 17 20	47 1.8504	31 1.2205	16 0.6299	12.7 0.5000	18.3 0.7205	4.7 0.1850	4.4 0.1732	M6X1 1/4-28UNF	12800	6650	0.23 0.22 0.21 0.20 0.19 0.19 0.18 0.17	0.24 0.23 0.22 0.21 0.20 0.20 0.19 0.18
UC205-14 RB205-15 205 205-16	7/8 15/16 1	25	52 2.0472	34 1.3386	17 0.6693	14.3 0.5630	19.7 0.7756	5.5 0.2165	4.3 0.1693	M6X1 1/4-28UNF	14000	7880	0.23 0.22 0.21 0.20	0.26 0.25 0.24 0.23
UC206-18 RB206 206-19 206-20	1-1/8 1-3/16 1-1/4	30	62 2.4409	38.1 1.5000	19 0.7480	15.9 0.6260	22.2 0.8740	5.5 0.2165	5 0.1969	M6X1 1/4-28UNF	19500	11200	0.34 0.32 0.31 0.30	0.38 0.36 0.35 0.34
UC207-20 RB207-21 207-22 207 207-23	1-1/4 1-5/16 1-3/8 1-7/16	35	72 2.8346	42.9 1.6890	20 0.7874	17.5 0.6890	25.4 1.0000	6.5 0.2559	5.8 0.2283	M8X1 5/16-24UNF	25700	15200	0.53 0.51 0.48 0.47 0.45	0.61 0.59 0.56 0.54 0.52
UC208-24 RB208-25 208	1-1/2 1-9/16	40	80 3.1496	49.2 1.9370	21 0.8268	19 0.7480	30.2 1.1890	8 0.3150	6.3 0.2480	M8X1 5/16-24UNF	29600	18200	0.68 0.65 0.64	0.76 0.74 0.73
UC209-26 RB209-27 209-28 209	1-5/8 1-11/16 1-3/4	45	85 3.3465	49.2 1.9370	22 0.8661	19 0.7480	30.2 1.1890	8 0.3150	6.8 0.2677	M8X1 5/16-24UNF	31850	20800	0.78 0.74 0.70 0.68	0.88 0.85 0.81 0.79
UC210-30 RB210-31 210 210-32	1-7/8 1-15/16 2	50	90 3.5433	51.6 2.0315	23 0.9055	19 0.7480	32.6 1.2835	9 0.3543	6.5 0.2559	M10X1.25 3/8-24UNF	35100	23200	0.87 0.82 0.80 0.78	0.98 0.93 0.90 ---
UC211-32 RB211-34 211 211-35	2 2-1/8 2-3/16	55	100 3.9370	55.6 2.1890	25 0.9843	22.2 0.8740	33.4 1.3150	9 0.3543	7.2 0.2835	M10X1.25 3/8-24UNF	43550	29200	1.27 1.17 1.12 1.10	1.40 1.30 1.24 1.22
UC212-36 RB212 212-38 212-39	2-1/4 2-3/8 2-7/16	60	110 4.3307	65.1 2.5630	27 1.0630	25.4 1.0000	39.7 1.5630	10.5 0.4134	8.2 0.3228	M10X1.25 3/8-24UNF	47800	32800	1.67 1.53 1.53 1.45	1.88 1.74 1.72 1.65
UC213-40 213	2-1/2	65	120 4.7244	65.1 2.5630	28 1.1024	25.4 1.0000	39.7 1.5630	12 0.4724	8 0.3150	M12X1.25 3/8-24UNF	57200	40000	1.94 1.86	---
UC214-44 214	2-3/4	70	125 4.9213	74.6 2.9370	30 1.1811	30.2 1.1890	44.4 1.7480	12 0.4724	9 0.3543	M12X1.25 7/16-20UNF	60800	45000	2.06 2.05	---
UC215-47 215 215-48	2-15/16 3	75	130 5.1181	77.8 3.0630	30 1.1811	33.3 1.3110	44.5 1.7520	12 0.4724	9 0.3543	M12X1.25 7/16-20UNF	66000	49500	2.30 2.21 2.13	---
UC216	80	140 5.5118	82.6 3.2520	33 1.2992	33.3 1.3110	49.3 1.9410	14 0.5512	10.3 0.4055	M12X1.25 7/16-20UNF	71500	54200	2.79	---	
UC217-52 217	3-1/4	85	150 5.9055	85.7 3.3740	35 1.3780	34.1 1.3425	51.6 2.0315	14 0.5512	11 0.4331	M12X1.25 7/16-20UNF	83200	63800	3.60 3.38	---
UC218-56 218	3-1/2	90	160 6.2992	96 3.7795	37 1.4567	39.7 1.5630	56.3 2.2165	14 0.5512	12 0.4724	M12X1.25 1/2-20UNF	95900	71500	4.56 4.45	---
UC220 220-64	4	100	180 7.0866	108 4.2520	40 1.5748	42 1.6535	66 2.5984	16 0.6299	12.1 0.4764	M16X1.5 5/8-18UNF	122000	92800		

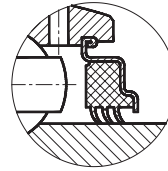


**UC2T**  
Centric locking collar type

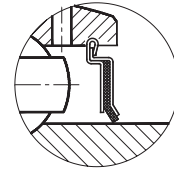
Bearing No.	Shaft Dia.		Dimensions (mm)/(in.)								Basic load rating (N)		Mass (kg)	
	(in.)	(mm)	D	B	C	S	S <sub>1</sub>	B <sub>3</sub>	h	d <sub>1</sub> (mm)	d <sub>s</sub>	Dynamic Cr		Static Cor
UC204-12T 204T	3/4	20	47 1.8504	31 1.2205	16 0.6299	12.7 0.5000	18.3 0.7205	8.0 0.3150	4.4 0.1732	34.9	M5X0.8 10#-32UNF	12800	6650	0.20
UC205-13T 205-14T 205-15T 205T 205-16T	13/16 7/8 15/16 1	25	52 2.0472	34 1.3386	17 0.6693	14.3 0.5630	19.7 0.7756	8.8 0.3465	4.3 0.1693	34.9 39.7 39.7 39.7 39.7	M6×1 1/4-28UNF	14000	7880	0.24
UC206-16T 206-17T 206-18T 206T 206-19T 206-20T	1 1-1/16 1-1/8 206T 1-3/16 1-1/4	30	62 2.4409	38.1 1.5000	19 0.7480	15.9 0.6260	22.2 0.8740	8.8 0.3465	5 0.1969	46.0 46.0 46.0 50.8 50.8 50.8	M6×1 1/4-28UNF	19500	11200	0.35
UC207-19T 207-20T 207-21T 207-22T 207T 207-23T	1-3/16 1-1/4 1-5/16 1-3/8 207T 1-7/16	35	72 2.8346	42.9 1.6890	20 0.7874	17.5 0.6890	25.4 1.0000	11.2 0.4409	5.8 0.2283	50.8 50.8 57.2 57.2 57.2 57.2	M8X1 5/16-24UNF	25700	15200	0.55
UC208-23T 208-24T 208-25T 208T 208-26T	1-7/16 1-1/2 1-9/16 208T 1-5/8	40	80 3.1496	49.2 1.9370	21 0.8268	19 0.7480	30.2 1.1890	11.2 0.4409	6.3 0.2480	63.5	M8X1 5/16-24UNF	29600	18200	0.72
UC209-24T 209-26T 209-27T 209-28T 209T 209-29T	1-1/2 1-5/8 1-11/16 1-3/4 209T 1-13/16	45	85 3.3465	49.2 1.9370	22 0.8661	19 0.7480	30.2 1.1890	11.2 0.4409	6.8 0.2677	63.5 63.5 68.3 68.3 68.3 68.3	M8X1 5/16-24UNF	31850	20800	0.82
UC210-27T 210-28T 210-29T 210-30T 210-31T 210T 210-32T	1-11/16 1-3/4 1-13/16 1-7/8 1-15/16 2	50	90 3.5433	51.6 2.0315	23 0.9055	19 0.7480	32.6 1.2835	14.2 0.5591	6.5 0.2559	69.9 69.9 69.9 73.0 73.0 73.0 73.0	M10X1.25 3/8-24UNF	35100	23200	0.95
UC211-31T 211-32T 211-33T 211-34T 211T 211-35T 211-36T	1-15/16 2 2-1/16 2-1/8 211T 2-3/16 2-1/4	55	100 3.9370	55.6 2.1890	25 0.9843	22.2 0.8740	33.4 1.3150	14.2 0.5591	7.2 0.2835	73.0 73.0 79.4 79.4 79.4 79.4 79.4	M10X1.25 3/8-24UNF	43550	29200	1.35
UC212-35T 212-36T 212-37T 212T 212-38T 212-39T	2-3/16 2-1/4 2-5/16 212T 2-3/8 2-7/16	60	110 4.3307	65.1 2.5630	27 1.0630	25.4 1.0000	39.7 1.5630	14.2 0.5591	8.2 0.3228	79.4 79.4 85.7 85.7 85.7 85.7	M10X1.25 3/8-24UNF	47800	32800	1.72
UC214-40T 214-42T 214-43T 214T	2-1/2 2-5/8 2-11/16	70	125 4.9213	74.6 2.9370	30 1.1811	30.2 1.1890	44.4 1.7480	14.2 0.5591	9 0.3543	100	M10X1.25 3/8-24UNF	60800	45000	2.20
UC215-44T 215-45T 215-46T 215-47T 215T	2-3/4 2-13/16 2-7/8 2-15/16	75	130 5.1181	77.8 3.0630	30 1.1811	33.3 1.3110	44.5 1.7520	14.2 0.5591	9 0.3543	100.0 106.4 106.4 106.4 106.4	M10X1.25 3/8-24UNF	66000	49500	2.50



Dual seals



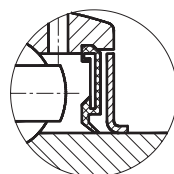
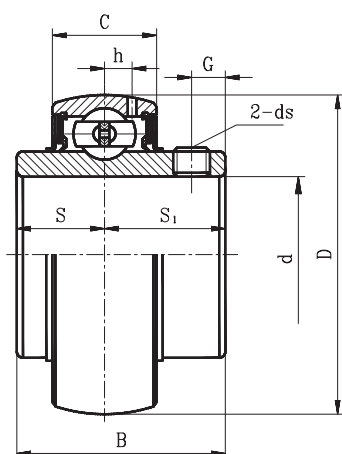
Tripple-lip seal  
(+Suffix-R3)



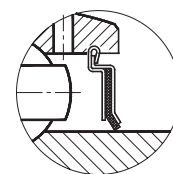
F seal  
(+Suffix-F)

## UCX Setscrew type

Bearing No.	Shaft Dia.		Dimensions (mm)/(in.)								Basic load rating (N)		Mass (kg)
	d		D	B	C	S	S1	G	h	ds	Dynamic Cr	Static Cor	
	(in.)	(mm)											
UCX05-14 X05-15 X05 X05-16	7/8 15/16 1	25	62 2.4409	38.1 1.5000	19 0.7480	15.9 0.6260	22.2 0.8740	6 0.2362	5 0.1969	M6X1 1/4-28UNF	19500	11200	0.42 0.40 0.39 0.38
UCX06-18 X06 X06-19 X06-20	1-1/8 1-3/16 1-1/4	30	72 2.8346	42.9 1.6890	20 0.7874	17.5 0.6890	25.4 1.0000	6.5 0.2559	5.8 0.2283	M8X1 5/16-24UNF	25700	15200	0.58 0.58 0.58 0.55
UCX07-22 X07 X07-23	1-3/8 1-7/16	35	80 3.1496	49.2 1.9370	21 0.8268	19 0.7480	30.2 1.1890	8 0.3150	6.3 0.2480	M8X1 5/16-24UNF	29600	18200	0.75 0.75 0.72
UCX08-24 X08-25 X08	1-1/2 1-9/16	40	85 3.3465	49.2 1.9370	22 0.8661	19 0.7480	30.2 1.1890	8 0.3150	6.8 0.2677	M8X1 5/16-24UNF	31850	20800	0.87 0.87 0.83
UCX09-26 X09-27 X09-28 X09	1-5/8 1-11/16 1-3/4	45	90 3.5433	51.6 2.0315	23 0.9055	19 0.7480	32.6 1.2835	9 0.3543	6.5 0.2559	M10X1.25 3/8-24UNF	35100	23200	1.10 1.01 0.97 0.95
UCX10-30 X10-31 X10 X10-32	1-7/8 1-15/16 2	50	100 3.9370	55.6 2.1890	25 0.9843	22.2 0.8740	33.4 1.3150	9 0.3543	7.2 0.2835	M10X1.25 3/8-24UNF	43550	29200	1.43 1.32 1.29 1.26
UCX11-34 X11 X11-35 X11-36	2-1/8 2-3/16 2-1/4	55	110 4.3307	65.1 2.5630	27 1.0630	25.4 1.0000	39.7 1.5630	10.5 0.4134	8.2 0.3228	M10X1.25 3/8-24UNF	47800	32800	1.95 1.80 1.78 1.70
UCX12 X12-38 X12-39	2-3/8 2-7/16	60	120 4.7244	65.1 2.5630	28 1.1024	25.4 1.0000	39.7 1.5630	12 0.4724	8 0.3150	M12X1.25 3/8-24UNF	57200	40000	2.05 2.03 1.95
UCX13-40 X13	2-1/2	65	125 4.9213	74.6 2.9370	30 1.1811	30.2 1.1890	44.4 1.7480	12 0.4724	9 0.3543	M12X1.25 7/16-20UNF	60800	45000	2.61 2.52
UCX14-44 X14	2-3/4	70	130 5.1181	77.8 3.0630	30 1.1811	33.3 1.3110	44.5 1.7520	12 0.4724	9 0.3543	M12X1.25 7/16-20UNF	66000	49500	2.75 2.74
UCX15 X15-48	3	75	140 5.5118	82.6 3.2520	33 1.2992	33.3 1.3110	49.3 1.9410	14 0.5512	10.3 0.4055	M12X1.25 7/16-20UNF	71500	54200	3.41 3.32
UCX16		80	150 5.9055	85.7 3.3740	35 1.3780	34.1 1.3425	51.6 2.0315	14 0.5512	11 0.4331	M12X1.25 7/16-20UNF	83200	63800	3.87
UCX17-52 X17	3-1/4	85	160 6.2992	96 3.7795	37 1.4567	39.7 1.5630	56.3 2.2165	14 0.5512	12 0.4724	M12X1.25 7/16-20UNF	95900	71500	4.58 5.05
UCX18-56 X18	3-1/2	90	170 6.6929	104 4.0945	39 1.5354	42.9 1.6890	61.1 2.4055	14 0.5512	12.1 0.4764	M14X1.5 1/2-20UNF	109000	82800	6.12 6.00
UCX20 X20-64	4	100	190 7.4803	117.5 4.6260	44 1.7323	49.2 1.9370	68.3 2.6890	16 0.6299	13.7 0.5394	M16X1.5 5/8-18UNF	133000	105000	8.56 8.33



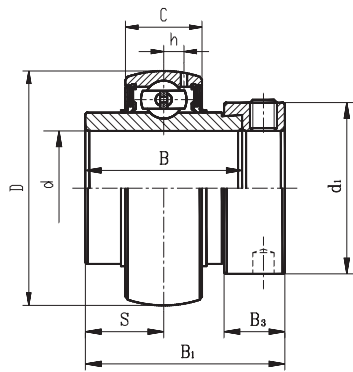
Dual seals



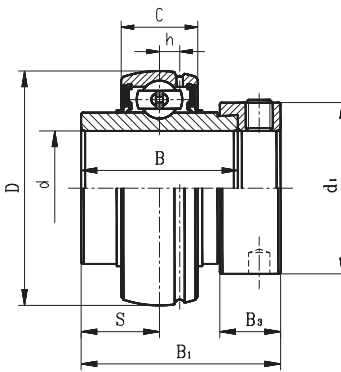
F seal  
(+Suffix-F)

## UC3 Setscrew type

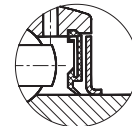
Bearing No.	Shaft Dia.		Dimensions (mm)/(in.)								Basic load rating (N)		Mass (kg)
	d		D	B	C	S	S <sub>1</sub>	G	h	ds	Dynamic Cr	Static Cor	
	(in.)	(mm)											
UC305-14 305-15 305 305-16	7/8 15/16 1	25	62 2.4409	38 1.4961	21 0.8268	15 0.5906	23 0.9055	6 0.2362	6.2 0.2441	M6X1 1/4-28UNF	22360	11500	0.38 0.36 0.35 0.34
UC306-18 306 306-19	1-1/8 1-3/16	30	72 2.8346	43 1.6929	24 0.9449	17 0.6693	26 1.0236	6 0.2362	6.5 0.2559	M6X1 1/4-24UNF	27000	15200	0.58 0.56 0.56
UC307-20 307-21 307-22 307	1-1/4 1-5/16 1-3/8 307	35	80 3.1496	48 1.8898	25 0.9843	19 0.7480	29 1.1417	8 0.3150	7.2 0.2835	M8X1 5/16-24UNF	33500	19200	0.77 0.74 0.71 0.71
UC308-24 308-25 308	1-1/2 1-9/16	40	90 3.5433	52 2.0472	28 1.1024	19 0.7480	33 1.2992	10 0.3937	8.5 0.3346	M10X1.25 3/8-24UNF	40560	24000	1.00 0.98 0.96
UC309-26 309-27 309-28 309	1-5/8 1-11/16 1-3/4	45	100 3.9370	57 2.2441	30 1.1811	22 0.8661	35 1.3780	10 0.3937	9 0.3543	M10X1.25 3/8-24UNF	53000	31800	1.36 1.33 1.30 1.28
UC310-30 310-31 310	1-7/8 1-15/16	50	110 4.3307	61 2.4016	32 1.2598	22 0.8661	39 1.5354	12 0.4724	9.9 0.3898	M12X1.25 7/16-20UNF	61750	37800	1.74 1.68 1.65
UC311-32 311-34 311 311-35	2 2-1/8 2-3/16	55	120 4.7244	66 2.5984	34 1.3386	25 0.9843	41 1.6142	12 0.4724	10.6 0.4173	M12X1.25 7/16-20UNF	71500	44800	2.08 1.90 1.90 1.87
UC312-36 312 312-38 312-39	2-1/4 2-3/8 2-7/16	60	130 5.1181	71 2.7953	36 1.4173	26 1.0236	45 1.7717	12 0.4724	11.3 0.4449	M12X1.25 7/16-20UNF	81600	51800	2.65 2.60 2.57 2.50
UC313-40 313	2-1/2	65	140 5.5118	75 2.9528	38 1.4961	30 1.1811	45 1.7717	12 0.4724	12.1 0.4764	M12X1.25 7/16-20UNF	93860	60500	3.30 3.25
UC314-44 314	2-3/4	70	150 5.9055	78 3.0709	40 1.5748	31 1.2205	47 1.8504	12 0.4724	12.8 0.5039	M12X1.25 7/16-20UNF	104260	68000	3.96 3.95
UC315 315-48	3	75	160 6.2992	82 3.2283	42 1.6535	32 1.2598	50 1.9685	14 0.5512	13.5 0.5315	M14X1.5 1/2-20UNF	113360	76800	4.33 4.24
UC316		80	170 6.6929	86 3.3858	44 1.7323	34 1.3386	52 2.0472	14 0.5512	14.5 0.5709	M14X1.5 1/2-20UNF	122850	86500	5.57
UC317-52 317	3-1/4	85	180 7.0866	96 3.7795	46 1.8110	40 1.5748	56 2.2047	16 0.6299	15.5 0.6102	M16X1.5 5/8-18UNF	132600	96500	7.08 6.84
UC318-56 318	3-1/2	90	190 7.4803	96 3.7795	48 1.8898	40 1.5748	56 2.2047	16 0.6299	16.5 0.6496	M16X1.5 5/8-18UNF	143000	108000	8.03 7.87
UC319 319-60	3-3/4	95	200 7.8740	103 4.0551	50 1.9685	41 1.6142	62 2.4409	18 0.7087	16.7 0.6574	M16X1.5 5/8-18UNF	156000	122000	8.91 8.88
UC320 320-64	4	100	215 8.4646	108 4.2520	54 2.2160	42 1.6535	66 2.5984	18 0.7087	19 0.7480	M18X1.5 5/8-18UNF	171600	140000	11.2 11.0
UC322		110	240	117	60	46	71	18	21	M18X1.5	158000	178000	14.3
UC324		120	260	126	64	51	75	18	22	M18X1.5	175000	208000	18.5
UC326		130	280	135	68	54	81	20	23	M20X1.5	195000	242000	23.0
UC328		140	300	145	72	59	86	20	25	M20X1.5	212000	272000	28.5



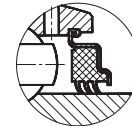
**NA2**



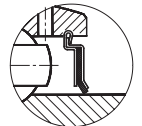
**HC2**



Dual seals



Triple-lip seal  
(+Suffix-R3)

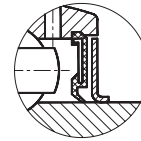
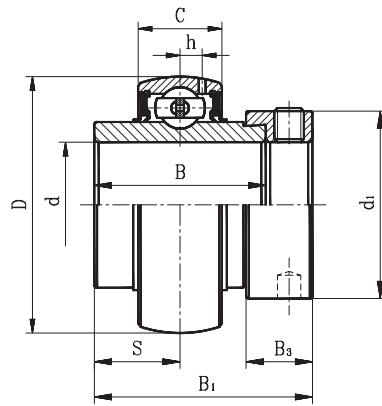


F seal  
(+Suffix-F)

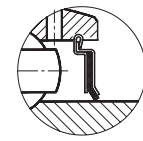
**Eccentric locking collar type**

Bearing No.	Shaft Dia.		Dimensions (mm)/(in.)								Eccentric collar	Basic load ratings (N)		Mass (kg)
	d (in.)	d (mm)	D	C	B	S	B <sub>1</sub>	B <sub>3</sub>	h	d <sub>1</sub>		Dynamic Cr	Static Cor	
NA201S HC201-8S 202S 202-10S 203S 203-11S	1/2 5/8 11/16	12 15 17	40 1.5748	14 0.5512	27.8 1.0945	13.9 0.5472	37.3 1.4685	13.5 0.5315	3.5 0.1378	28.6 1.1260	A201S 201-8S 202S 202-10S 203S 203-11S	9550	4780	0.23 0.23 0.22 0.21 0.20 0.19
NA201 HC201-8 202 202-10 203 203-11 203-12 204	1/2 5/8 11/16 3/4 20	12 15 17 20	47 1.8540	16 0.6299	34 1.3386	17 0.6693	43.5 1.7126	13.5 0.5315	4.4 0.1732	33.3 1.3110	A201 201-8 202 202-10 203 203-11 204-12 204	12800	6650	0.28 0.27 0.26 0.25 0.24 0.24 0.23 0.22
NA205-14 HC205-15 205 205-16	7/8 15/16 1	25	52 2.0472	17 0.6693	34.8 1.3701	17.4 0.6850	44.3 1.7441	13.5 0.5315	4.3 0.1693	38.1 1.5000	A205-14 205-15 205 205-16	14000	7880	0.29 0.27 0.25 0.24
NA206-18 HC206 206-19 206-20	1-1/8 1-3/16 1-1/4	30	62 2.4409	19 0.7480	36.4 1.4331	18.2 0.7165	48.3 1.9016	15.9 0.6260	5 0.1969	44.5 1.7520	A206-18 206 206-19 206-20	19500	11200	0.43 0.41 0.40 0.38
NA207-20 HC207-21 207-22 207 207-23	1-1/4 1-5/16 1-3/8 1-7/16	35	72 2.8346	20 0.7874	37.6 1.4803	18.8 0.7402	51.1 2.0118	17.5 0.6890	5.8 0.2283	55.6 2.1890	A207-20 207-21 207-22 207 207-23	25700	15200	0.68 0.65 0.61 0.60 0.58
NA208-24 HC208-25 208	1-1/2 1-9/16	40	80 3.1496	21 0.8268	42.8 1.6850	21.4 0.8425	56.3 2.2165	18.3 0.7205	6.3 0.2480	60.3 2.3740	A208-24 208-25 208	29600	18200	0.83 0.79 0.78
NA209-26 HC209-27 209-28 209	1-5/8 1-11/16 1-3/4	45	85 3.3465	22 0.8661	42.8 1.6850	21.4 0.8425	56.3 2.2165	18.3 0.7205	6.8 0.2677	63.5 2.5000	A209-26 209-27 209-28 209	31850	20800	0.96 0.91 0.87 0.85
NA210-30 HC210-31 210	1-7/8 1-15/16	50	90 3.5433	23 0.9055	49.2 1.9370	24.6 0.9685	62.7 2.4685	18.3 0.7205	6.5 0.2559	69.9 2.7520	A210-30 210-31 210	35100	23200	1.10 1.04 1.01
NA211-32 HC211-34 211 211-35	2 2-1/8 2-3/16	55	100 3.9370	25 0.9843	55.4 2.1811	27.7 1.0906	71.3 2.8071	20.7 0.8150	7.2 0.2835	76.2 3.0000	A211-32 211-34 211 211-35	43550	29200	1.58 1.44 1.39 1.36
NA212-36 HC212 212-38 212-39	2-1/4 2-3/8 2-7/16	60	110 4.3307	27 1.0630	61.8 2.4331	30.9 1.2165	77.7 3.0591	22.3 0.8780	8.2 0.3228	84.2 3.3150	A212-36 212 212-38 212-39	47800	32800	2.03 1.87 1.85 1.76
NA213-40 HC213	2-1/2	65	120 4.7244	28 1.1024	68.2 2.6850	34.1 1.3425	85.7 3.3740	23.5 0.9252	8 0.3150	86 3.3858	A213-40 213	57200	40000	2.51 2.41
NA214-44 HC214	2-3/4	70	125 4.9213	30 1.1811	68.2 2.6850	34.1 1.3425	85.7 3.3740	23.5 0.9252	9 0.3543	96.8 3.8110	A214-44 214	60800	45000	2.58 2.57
NA215 HC215-48	3	75	130 5.1181	30 1.1811	74.6 2.9370	37.3 1.4685	92.1 3.6260	23.9 0.9409	9 0.3543	102 4.0160	A215 215-48	66000	49500	2.84 2.74
NA216 HC216		80	140 5.5118	33 1.2992	74.6 2.9370	37.3 1.4685	95.2 3.7480	27 1.0630	10.3 0.4055	110 4.3307	A216	71500	54200	3.12
NA217 HC217-52	3-1/4	85	150 5.9055	35 1.3780	53.2 2.0945	23.4 0.9213	73.2 2.8819	27 1.0630	11 0.4331	119 4.6850	A217 217-52	83200	63800	
NA218-56 HC218	3-1/2	90	160 6.2992	37 1.4567	55 2.1654	24.5 0.9646	72.5 2.8543	24 0.9449	12 0.4724	120 4.7244	A218-56 218	95900	71500	





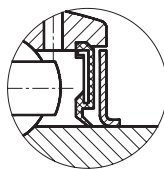
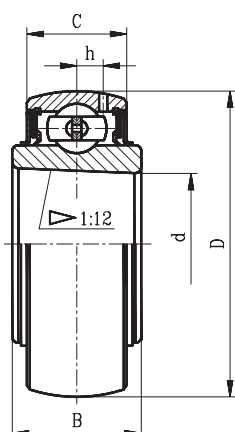
Dual seal



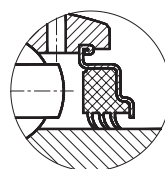
F seal  
(+Suffix-F)

## NA3 Eccentric locking collar type

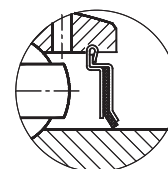
Bearing No.	Shaft Dia.		Dimensions (mm)/(in.)								Eccentric collar	Basic load ratings (N)		Mass (kg)
	d (in.)	d (mm)	D	B	C	S	B <sub>1</sub>	B <sub>3</sub>	h	d <sub>1</sub>		Dynamic Cr	Static Cor	
NA305-14 305-15 305 305-16	7/8 15/16 1	25	62 2.4409	34.9 1.3740	21 0.8268	16.7 0.6575	46.8 1.8425	15.9 0.6260	6.2 0.2441	42.8 1.6850	A305-14 305-15 305 305-16	22360	11500	0.46 0.44 0.43 0.43
NA306-18 306 306-19	1-1/8 1-3/16	30	72 2.8346	36.5 1.4370	24 0.9449	17.5 0.6890	50 1.9685	17.5 0.6890	6.5 0.2559	50 1.9685	A306-18 306 306-19	27000	15200	0.71 0.68 0.68
NA307-20 307-21 307-22 307 307-23	1-1/4 1-5/16 1-3/8 1-7/16	35	80 3.1496	38.1 1.5000	25 0.9843	18.3 0.7205	51.6 2.0315	17.5 0.6890	7.2 0.2835	55 2.1654	A307-20 307-21 307-22 307 307-23	33500	19200	0.86 0.83 0.80 0.80 0.78
NA308-24 308-25 308	1-1/2 1-9/16	40	90 3.5433	41.3 1.6260	28 1.1024	19.8 0.7795	57.1 2.2480	20.6 0.8110	8.5 0.3346	63.5 2.5000	A308-24 308-25 308	40560	24000	1.13 1.13 1.08
NA309-26 309-27 309-28 309	1-5/8 1-11/16 1-3/4	45	100 3.9370	42.9 1.6890	30 1.1811	19.8 0.7795	58.7 2.3110	20.6 0.8110	9 0.3543	70 2.7559	A309-26 309-27 309-28 309	53000	31800	1.57 1.52 1.47 1.45
NA310-30 310-31 310	1-7/8 1-15/16	50	110 4.3307	49.2 1.9370	32 1.2598	24.6 0.9685	66.6 2.6220	22.2 0.8740	9.9 0.3898	76.2 3.0000	A310-30 310-31 310	61750	37800	1.93 1.88 1.86
NA311-32 311-34 311 311-35	2 2-1/8 2-3/16	55	120 4.7244	55.6 2.1890	34 1.3386	27.8 1.0945	73 2.8740	22.2 0.8740	10.6 0.4173	83 3.2677	A311-32 311-34 311 311-35	71500	44800	2.49 2.36 2.30 2.24
NA312-36 312 312-38 312-39	2-1/4 2-3/8 2-7/16	60	130 5.1181	61.9 2.4370	36 1.4173	30.95 1.2185	79.4 3.1260	23.9 0.9409	11.3 0.4449	89 3.5039	A312-36 312 312-38 312-39	81600	51800	2.95 2.89 2.89 2.86
NA313-40 313	2-1/2	65	140 5.5118	65.1 2.5630	38 1.4961	32.5 1.2795	85.7 3.3740	27 1.0630	12.1 0.4764	97 3.8189	A313-40 313	93860	60500	3.85 3.66
NA314-44 314	2-3/4	70	150 5.9055	68.3 2.6890	40 1.5748	34.15 1.3445	92.1 3.6260	30.2 1.1890	12.8 0.5039	102 4.0157	A314-44 314	104260	68000	4.40 4.50
NA315 315-48	3	75	160 6.2992	74.6 2.9370	42 1.6535	37.3 1.4685	100 3.9370	31.8 1.2520	13.5 0.5315	113 4.4488	A315 315-48	113360	76800	5.34
NA316		80	170 6.6929	81 3.1890	44 1.7323	40.5 1.5945	106.4 4.1890	31.8 1.2520	14.5 0.5709	119 4.6850	A316	122850	86500	6.70
NA317-52 317	3-1/4	85	180 7.0866	84.1 3.3110	46 1.8110	42 1.6535	109.5 4.3110	31.8 1.2520	15.5 0.6102	127 5.0000	A317-52 317	132600	96500	8.03 7.96
NA318-56 318	3-1/2	90	190 7.4803	87.3 3.4370	48 1.8898	43.6 1.7165	115.9 4.5630	36.5 1.4370	16.5 0.6496	133 5.2362	A318-56 318	143000	108000	9.10
NA319 319-60	3-3/4	95	200 7.8740	93.7 3.6890	50 1.9685	46.8 1.8425	122.3 4.8150	36.5 1.4370	16.7 0.6574	140 5.5118	A319 319-60	156000	122000	10.4
NA320 320-64	4	100	215 8.4646	100 3.9370	54 2.2160	50 1.9685	128.6 5.0630	36.5 1.4370	19 0.7480	146 5.7480	A320 320-64	171600	140000	13.0



Dual seals



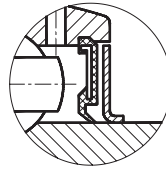
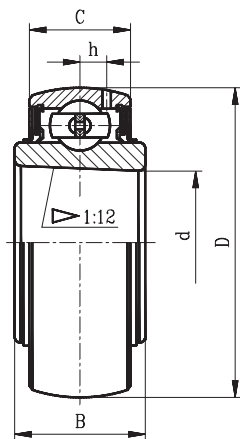
Tripple-lip seal  
(+Suffix-R3)



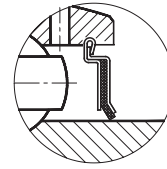
F seal  
(+Suffix-F)

## UK2 Tapered bore

Bearing No.	Dimensions (mm)/(in.)					Basic load ratings (N)		Mass (kg)
	d	D	B	C	h	Dynamic Cr	Static Cor	
UK205	25 0.9843	52 2.0472	21 0.8268	17 0.6693	4.3 0.1693	14000	7880	0.15
UK206	30 1.1811	62 2.4409	25 0.9843	19 0.7480	5 0.1969	19500	11200	0.25
UK207	35 1.3780	72 2.8346	27 1.0630	20 0.7874	5.8 0.2283	25700	15200	0.37
UK208	40 1.5748	80 3.1496	29 1.1417	21 0.8268	6.3 0.2480	29600	18200	0.48
UK209	45 1.7717	85 3.3465	30 1.1811	22 0.8661	6.8 0.2677	31850	20800	0.53
UK210	50 1.9685	90 3.5433	31 1.2205	23 0.9055	6.5 0.2559	35100	23200	0.59
UK211	55 2.1654	100 3.9370	33 1.2992	25 0.9843	7.2 0.2835	43550	29200	0.77
UK212	60 2.3622	110 4.3307	36 1.4173	27 1.0630	8.2 0.3228	47800	32800	1.03
UK213	65 2.5591	120 4.7244	36 1.4173	28 1.1024	8 0.3150	57200	40000	1.36
UK215	75 2.9528	130 5.1181	41 1.6142	30 1.1811	9 0.3543	66000	49500	1.67
UK216	80 3.1496	140 5.5118	44 1.7323	33 1.2992	10.3 0.4055	71500	54200	1.96
UK217	85 3.3465	150 5.9055	44 1.7323	35 1.3780	11 0.4331	83200	63800	2.42
UK218	90 3.5433	160 6.2992	48 1.8898	37 1.4567	12 0.4724	95900	71500	3.00



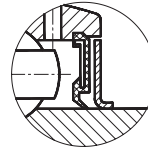
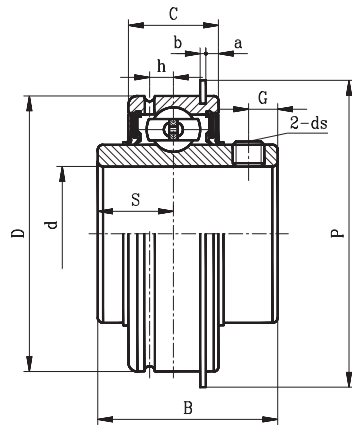
Dual seals



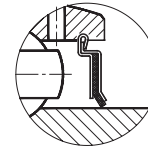
F seal  
(+Suffix-F)

## UK3 Tapered bore

Bearing No.	Dimensions (mm)/(in.)					Basic load ratings (N)		Mass (kg)
	d	D	B	C	h	Dynamic Cr	Static Cor	
UK305	25 0.9843	62 2.4409	27 1.0630	21 0.8268	6.2 0.2441	22360	11500	0.40
UK306	30 1.1811	72 2.8346	30 1.1811	24 0.9449	6.5 0.2559	27000	15200	0.46
UK307	35 1.3780	80 3.1496	33 1.2992	25 0.9843	7.2 0.2835	33500	19200	0.75
UK308	40 1.5748	90 3.5433	35 1.3780	28 1.1024	8.5 0.3346	40560	24000	0.81
UK309	45 1.7717	100 3.9370	38 1.4961	30 1.1811	9 0.3543	53000	31800	1.19
UK310	50 1.9685	110 4.3307	40 1.5748	32 1.2598	9.9 0.3898	61750	37800	1.38
UK311	55 2.1654	120 4.7244	43 1.6929	34 1.3386	10.6 0.4173	71500	44800	1.78
UK312	60 2.3622	130 5.1181	47 1.8504	36 1.4173	11.3 0.4449	81600	51800	2.06
UK313	65 2.5591	140 5.5118	49 1.9291	38 1.4961	12.1 0.4764	93860	60500	2.71
UK315	75 2.9528	160 6.2992	55 2.1654	42 1.6535	13.5 0.5315	113360	76800	3.98
UK316	80 3.1496	170 6.6929	55 2.1654	44 1.7323	14.5 0.5709	122850	86500	4.55
UK317	85 3.3465	180 7.0866	60 2.3622	46 1.8110	15.5 0.6102	132600	96500	5.44
UK318	90 3.5433	190 7.4803	60 2.3622	48 1.8898	16.5 0.6496	143000	10800	6.25
UK319	95 3.7402	200 7.8740	66 2.5984	50 1.9685	16.7 0.6574	156000	122000	7.31
UK320	100 3.9370	215 8.4646	68 2.6772	54 2.1260	19 0.7480	171600	140000	8.82



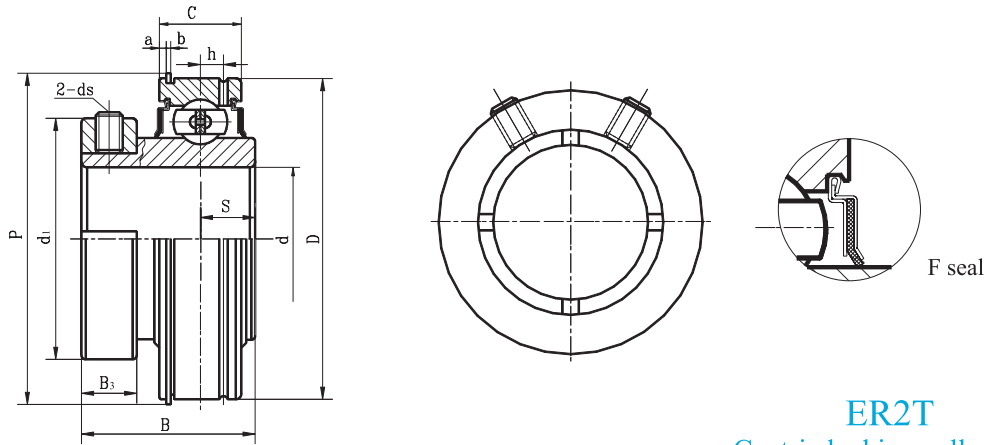
Dual seals



F seal  
(+Suffix-F)

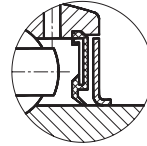
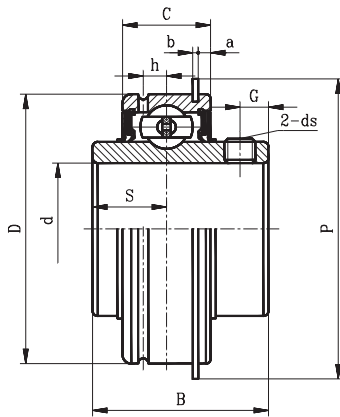
## ER2 Setscrew type

Bearing No.	Shaft Dia.		Dimensions (mm)/(in.)										Basic load rating (N)		Mass (kg)
	d		D	B	C	S	a	b	p	G	h	ds	Dynamic Cr	Static Cor	
	(in.)	(mm)													
ER201 201-8 202 202-10 203 203-11 204-12 204	1/2 5/8 11/16 3/4	12 15 17 20	47 1.8504	31 1.2205	15.9 0.6260	12.7 0.5000	2.38 0.0937	1.07 0.0421	52.7 2.0748	4.7 0.1850	4.4 0.1732	M6X1 1/4-28UNF	12800	6650	0.24
ER205-14 205-15 205 205-16	7/8 15/16 1	25	52 2.0472	34 1.3386	19 0.7480	14.3 0.5630	2.38 0.0937	1.07 0.0421	57.9 2.2795	5.5 0.2165	4.5 0.1772	M6X1 1/4-28UNF	14000	7880	0.27
ER206-18 206 206-19 206-20	1-1/8 1-3/16 1-1/4	30	62 2.4409	38.1 1.5000	22.2 0.8740	15.9 0.6260	3.18 0.1252	1.65 0.0650	67.7 2.6654	5.5 0.2165	5.3 0.2087	M6X1 1/4-28UNF	19500	11200	0.39
ER207-20 207-21 207-22 207 207-23	1-1/4 1-5/16 1-3/8 1-7/16	35	72 2.8346	42.9 1.6890	23.8 0.9370	17.5 0.6890	3.18 0.1252	1.65 0.0650	78.6 3.0945	6.5 0.2559	5.8 0.2283	M8X1 5/16-24UNF	25700	15200	0.61
ER208-24 208-25 208	1-1/2 1-9/16	40	80 3.1496	49.2 1.9370	27.8 1.0945	19 0.7480	3.18 0.1252	1.65 0.0650	86.6 3.4094	8 0.3150	6.3 0.2480	M8X1 5/16-24UNF	29600	18200	0.81
ER209-26 209-27 209-28 209	1-5/8 1-11/16 1-3/4	45	85 3.3465	49.2 1.9370	27.8 1.0945	19 0.7480	3.18 0.1252	1.65 0.0650	91.6 3.6063	8 0.3150	7.5 0.2953	M8X1 5/16-24UNF	31850	20800	0.90
ER210-30 210-31 210	1-7/8 1-15/16	50	90 3.5433	51.6 2.0315	28.6 1.1260	19 0.7480	3.18 0.1252	2.41 0.0949	96.5 3.7992	9 0.3543	6.8 0.2677	M10X1.25 3/8-24UNF	35100	23200	0.96
ER211-32 211-34 211 211-35	2 2-1/8 2-3/16	55	100 3.9370	55.6 2.1890	30.2 1.1890	22.2 0.8740	3.18 0.1252	2.41 0.0949	106.5 4.1929	9 0.3543	7.6 0.2992	M10X1.25 3/8-24UNF	43550	29200	1.41
ER212-36 212 212-38 212-39	2-1/4 2-3/8 2-7/16	60	110 4.3307	65.1 2.5630	31.8 1.2520	25.4 1.0000	3.18 0.1252	2.41 0.0949	116.6 4.5906	10.5 0.4134	8.4 0.3307	M10X1.25 3/8-24UNF	47800	32800	1.95
ER214-40 214-43 214	2-1/2 2-11/16	70	125 4.9213	74.6 2.9370	35 1.3780	30.2 1.1890	3.96 0.1559	2.77 0.1091	134.7 5.3031	12 0.4724	9 0.3543	M12X1.25 7/16-20UNF	60800	45000	2.52
ER215-46 215-47 215	2-7/8 2-15/16	75	130 5.1181	77.8 3.0630	38.1 1.5000	33.3 1.3110	3.96 0.1559	2.77 0.1091	139.7 5.5000	12 0.4724	9.5 0.3740	M12X1.25 7/16-20UNF	66000	49500	2.89

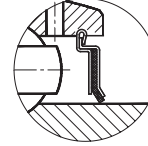


**ER2T**  
Centric locking collar type

Bearing No.	Shaft Dia.		Dimensions (mm)/(in.)										Basic load rating (N)		Mass (kg)	
	(in.)	(mm)	D	B	C	S	a	b	p	B <sub>3</sub>	h	d <sub>1</sub> (mm)	d <sub>s</sub>	Dynamic Cr		Static Cor
ER204-12T 204T	3/4	20	47 1.8504	31 1.2205	15.9 0.6260	10.3 0.4055	2.38 0.0937	1.07 0.0421	52.7 2.0748	8.0 0.3150	4.4 0.1732	34.9	M5X0.8 10#-32UNF	12800	6650	0.27
ER205-13T 205-14T 205-15T 205T 205-16T	13/16 7/8 15/16 1	25	52 2.0472	34.9 1.3740	19 0.7480	13.1 0.5157	2.38 0.0937	1.07 0.0421	57.9 2.2795	8.8 0.3465	4.5 0.1772	34.9 39.7 39.7 39.7 39.7	M6X1 1/4-28UNF	14000	7880	0.30
ER206-16T 206-17T 206-18T 206T 206-19T 206-20T	1 1-1/16 1-1/8 206T 1-3/16 1-1/4	30	62 2.4409	38.1 1.5000	22.2 0.8740	15.9 0.6260	3.18 0.1252	1.65 0.0650	67.7 2.6654	8.8 0.3465	5.3 0.2087	46.0 46.0 46.0 50.8 50.8 50.8	M6X1 1/4-28UNF	19500	11200	0.42
ER207-19T 207-20T 207-21T 207-22T 207T 207-23T	1-3/16 1-1/4 1-5/16 1-3/8 207T 1-7/16	35	72 2.8346	42.9 1.6890	23.8 0.9370	17.5 0.6890	3.18 0.1252	1.65 0.0650	78.6 3.0945	11.2 0.4409	5.8 0.2283	50.8 50.8 57.2 57.2 57.2 57.2	M8X1 5/16-24UNF	25700	15200	0.66
ER208-23T 208-24T 208-25T 208T 208-26T	1-7/16 1-1/2 1-9/16 208T 1-5/8	40	80 3.1496	49.2 1.9370	27.8 1.0945	19 0.7480	3.18 0.1252	1.65 0.0650	86.6 3.4094	11.2 0.4409	6.3 0.2480	63.5	M8X1 5/16-24UNF	29600	18200	0.86
ER209-24T 209-26T 209-27T 209-28T 209T 209-29T	1-1/2 1-5/8 1-11/16 1-3/4 209T 1-13/16	45	85 3.3465	49.2 1.9370	27.8 1.0945	19 0.7480	3.18 0.1252	1.65 0.0650	91.6 3.6063	11.2 0.4409	7.5 0.2953	63.5 63.5 68.3 68.3 68.3 68.3	M8X1 5/16-24UNF	31850	20800	0.95
ER210-27T 210-28T 210-29T 210-30T 210-31T 210T 210-32T	1-11/16 1-3/4 1-13/16 1-7/8 1-15/16 2 210-32T	50	90 3.5433	51.6 2.0315	28.6 1.1260	19 0.7480	3.18 0.1252	2.41 0.0949	96.5 3.7992	14.2 0.5591	6.8 0.2677	69.9 69.9 69.9 73.0 73.0 73.0 73.0	M10X1.25 3/8-24UNF	35100	23200	1.03
ER211-31T 211-32T 211-33T 211-34T 211T 211-35T 211-36T	1-15/16 2 2-1/16 2-1/8 211T 2-3/16 2-1/4	55	100 3.9370	55.6 2.1890	30.2 1.1890	22.2 0.8740	3.18 0.1252	2.41 0.0949	106.5 4.1929	14.2 0.5591	7.6 0.2992	73.0 73.0 79.4 79.4 79.4 79.4 79.4	M10X1.25 3/8-24UNF	43550	29200	1.48
ER212-35T 212-36T 212-37T 212T 212-38T 212-39T	2-3/16 2-1/4 2-5/16 212T 2-3/8 2-7/16	60	110 4.3307	65.1 2.5630	31.8 1.2520	25.4 1.000	3.18 0.1252	2.41 0.0949	116.6 4.5906	14.2 0.5591	8.4 0.3307	79.4 79.4 85.7 85.7 85.7 85.7	M10X1.25 3/8-24UNF	47800	32800	2.02
ER214-40T 214-42T 214-43T 214T	2-1/2 2-5/8 2-11/16 214T	70	125 4.9213	74.6 2.9370	35 1.3780	30.2 1.1890	3.96 0.1559	2.77 0.1091	134.7 5.3031	14.2 0.5591	9 0.3543	100	M10X1.25 3/8-24UNF	60800	45000	2.66
ER215-44T 215-45T 215-46T 215-47T 215T	2-3/4 2-13/16 2-7/8 2-15/16 215T	75	130 5.1181	77.8 3.0630	38.1 1.5000	33.3 1.3110	3.96 0.1559	2.77 0.1091	139.7 5.5000	14.2 0.5591	9.5 0.3740	100.0 106.4 106.4 106.4 106.4	M10X1.25 3/8-24UNF	66000	49500	3.10



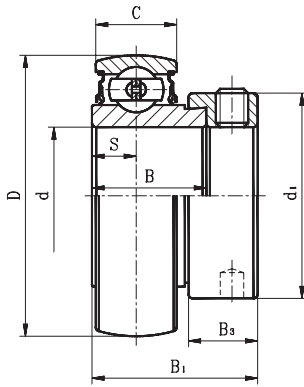
Dual seals



F seal  
(+Suffix-F)

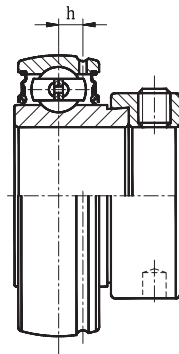
## SER2 Setscrew type

Bearing No.	Shaft Dia.		Dimensions (mm)/(in.)										Basic load ratings (N)		Mass (kg)
	d		D	B	C	S	a	b	p	G	h	ds	Dynamic Cr	Static Cor	
	(in.)	(mm)													
SER201 201-8 202 202-10 203 203-11 204-12 204	1/2 5/8 11/16 3/4 20	12 15 17 18.504 20	47 1.8504	31 1.2205	15.9 0.6260	10.3 0.4055	2.38 0.0937	1.07 0.0421	52.7 2.0748	4.7 0.1850	4.4 0.1732	M6X1 1/4-28UNF	12800	6650	0.24
SER205-14 205-15 205 205-16	7/8 15/16 25 1	14 15 25 25.4	52 2.0472	34.9 1.3740	19 0.7480	13.1 0.5157	2.38 0.0937	1.07 0.0421	57.9 2.2795	5.5 0.2165	4.5 0.1772	M6X1 1/4-28UNF	14000	7880	0.27
SER206-18 206 206-19 206-20	1-1/8 1-3/16 1-1/4	18 18 20 25.4	62 2.4409	38.1 1.5000	22.2 0.8740	15.9 0.6260	3.18 0.1252	1.65 0.0650	67.7 2.6654	5.5 0.2165	5.3 0.2087	M6X1 1/4-28UNF	19500	11200	0.39
SER207-20 207-21 207-22 207 207-23	1-1/4 1-5/16 1-3/8 1-7/16	20 21 22 27 27.5	72 2.8346	42.9 1.6890	23.8 0.9370	17.5 0.6890	3.18 0.1252	1.65 0.0650	78.6 3.0945	6.5 0.2559	5.8 0.2283	M8X1 5/16-24UNF	25700	15200	0.61
SER208-24 208-25 208	1-1/2 1-9/16 40	24 25 40	80 3.1496	49.2 1.9370	27.8 1.0945	19 0.7480	3.18 0.1252	1.65 0.0650	86.6 3.4094	8 0.3150	6.3 0.2480	M8X1 5/16-24UNF	29600	18200	0.81
SER209-26 209-27 209-28 209	1-5/8 1-11/16 1-3/4 45	26 27 28 45	85 3.3465	49.2 1.9370	27.8 1.0945	19 0.7480	3.18 0.1252	1.65 0.0650	91.6 3.6063	8 0.3150	7.5 0.2953	M8X1 5/16-24UNF	31850	20800	0.90
SER210-30 210-31 210	1-7/8 1-15/16 50	30 31 50	90 3.5433	51.6 2.0315	28.6 1.1260	19 0.7480	3.18 0.1252	2.41 0.0949	96.5 3.7992	9 0.3543	6.8 0.2677	M10X1.25 3/8-24UNF	35100	23200	0.96
SER211-32 211-34 211 211-35	2 2-1/8 2-3/16	32 34 35 45	100 3.9370	55.6 2.1890	30.2 1.1890	22.2 0.8740	3.18 0.1252	2.41 0.0949	106.5 4.1929	9 0.3543	7.6 0.2992	M10X1.25 3/8-24UNF	43550	29200	1.41
SER212-36 212 212-38 212-39	2-1/4 2-3/8 2-7/16	36 38 39 45	110 4.3307	65.1 2.5630	31.8 1.2520	25.4 1.0000	3.18 0.1252	2.41 0.0949	116.6 4.5906	10.5 0.4134	8.4 0.3307	M10X1.25 3/8-24UNF	47800	32800	1.95
SER214-40 214-43 214	2-1/2 2-11/16 70	40 43 70	125 4.9213	74.6 2.9370	35 1.3780	30.2 1.1890	3.96 0.1559	2.77 0.1091	134.7 5.3031	12 0.4724	9 0.3543	M12X1.25 7/16-20UNF	60800	45000	2.52
SER215-46 215-47 215	2-7/8 2-15/16 75	46 47 75	130 5.1181	77.8 3.0630	38.1 1.5000	33.3 1.3110	3.96 0.1559	2.77 0.1091	139.7 5.5000	12 0.4724	9.5 0.3740	M12X1.25 7/16-20UNF	66000	49500	2.89



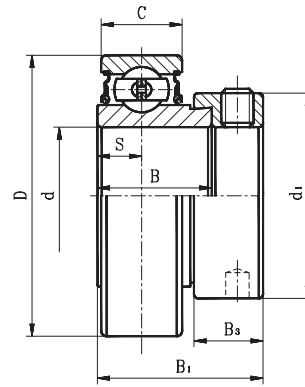
**SA2**

Eccentric locking collar type



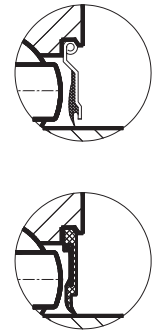
**SA2G**

Relubricatable type



**CSA1  
CSA2**

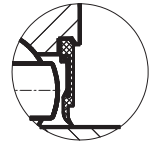
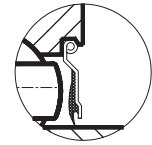
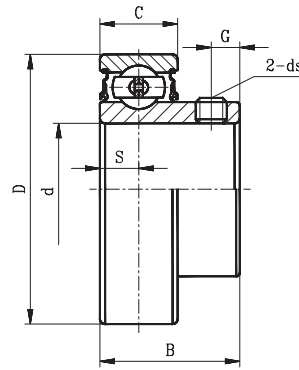
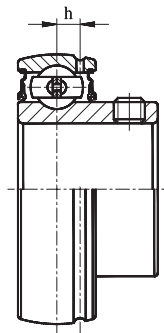
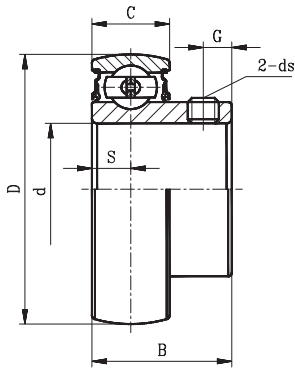
Cylindrical O.D. type



RS Seal  
(+Suffix-2RS)

Bearing No.	Shaft Dia.		Dimensions (mm)/(in.)								Basic load ratings (N)		Mass (kg)
	d		D	C	B	B <sub>1</sub>	S	h	B <sub>3</sub>	d <sub>1</sub>	Dynamic Cr	Static Cor	
	(in.)	(mm)											
SA201	1/2	12	40	12	19.1	28.6	6.5	3.6	13.5	28.6	9550	4780	0.14
201-8		15											0.14
202		17											0.13
202-10		17											0.13
203		17											0.13
203-11	11/16	17	0.13										
CSA104-12	3/4		42	12	16.14	26.42	6	-	13.2	33	9380	5000	0.12
			1.6535	0.4724	0.6354	1.0402	0.2362	0.5197	1.2992				
SA204-12	3/4		47	14	21.4	30.9	7.5	4	13.5	33.3	12800	6650	0.18
204		20	1.8504	0.5512	0.8425	1.2165	0.2953	0.1575	0.5315	1.3110			
SA205-14	7/8		52	15	21.4	30.9	7.5	4.3	13.5	38.1	14000	7880	0.21
205-15		15/16											0.19
205		25											0.19
205-16		1											0.18
SA206-18	1-1/8	30	62	16	23.8	35.7	9	5	15.9	44.5	19500	11200	0.35
206	1-3/16												0.33
206-19	1-1/4												0.31
206-20	1-1/4												0.29
SA207-20	1-1/4	35	72	17	25.4	38.9	9.5	5.7	17.5	55.6	25700	15200	0.56
207-21	1-5/16												0.53
207-22	1-3/8												0.51
207	1-7/16												0.50
207-23	1-7/16												0.48
SA208-24	1-1/2	40	80	18	30.2	43.7	11	6.2	18.3	60.3	29600	18200	0.68
208-25	1-9/16												0.67
208	1-9/16												0.65
208	1-9/16												0.65
SA209-26	1-5/8	45	85	19	30.2	43.7	11	6.5	18.3	63.5	31850	20800	0.76
209-27	1-11/16												0.73
209-28	1-3/4												0.69
209	1-3/4												0.69
SA210-30	1-7/8	50	90	20	30.2	43.7	11	6.5	18.3	69.9	35100	23200	0.83
210-31	1-15/16												0.79
210	1-15/16												0.79
SA211-32	2	55	100	24	32.5	48.4	12	7.2	20.7	76.2	43550	29200	1.17
211-34	2-1/8												1.07
211	2-3/16												1.04
211-35	2-3/16												1.01
SA212-36	2-1/4	60	110	24	33.4	49.3	12	8	22.3	84.2	47800	32800	1.30
212	2-1/4												1.20
212-38	2-3/8												1.09
212-39	2-7/16												1.09

Note : Suffix "G" - Relub.; Prefix "C" - Cylindrical O.D..



RS Seal  
(+Suffix-2RS)

## SB2

Setscrew type

## SB2G

Relubricatable type

## CSB2

Cylindrical O.D. type

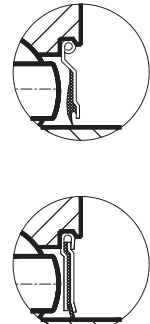
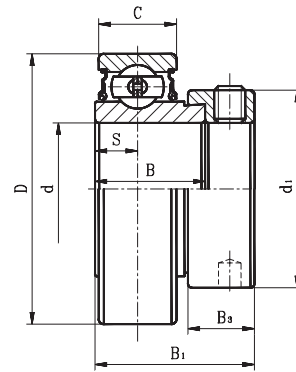
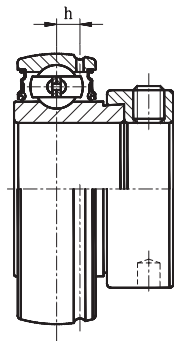
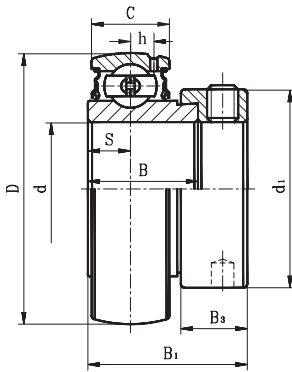
Bearing No.	Shaft Dia.		Dimensions (mm)/(in.)							Basic load ratings (N)		Mass (kg)
	d		D	B	C	S	h	G	ds	Dynamic Cr	Static Cor	
	(in.)	(mm)										
SB201		12										
201-8	1/2	15	40	22	12	6	3.6	4	M5X0.8	9550	4780	0.10
202		15	1.5748	0.8661	0.4724	0.2362	0.1417	0.1575	10#-32UNF			
202-10	5/8	17										
203		17										
203-11	11/16											
SB204-12	3/4	20	47	25	14	7	4	5	M6X1	12800	6650	0.14
204		20	1.8504	0.9843	0.5512	0.2756	0.1575	0.1969	1/4-28UNF			
SB205-14	7/8	25	52	27	15	7.5	4.3	5.5	M6X1	14000	7880	0.17
205-15	15/16	25	2.0472	1.0630	0.5906	0.2953	0.1693	0.2165	1/4-28UNF			
205		25										
205-16	1											
SB206-18	1-1/8	30	62	30	16	8	5	6	M6X1	19500	11200	0.26
206		30	2.4409	1.1811	0.6299	0.3150	0.1969	0.2362	1/4-28UNF			
206-19	1-3/16											
206-20	1-1/4											
SB207-20	1-1/4	35	72	32	17	8.5	5.7	6.5	M6X1	25700	15200	0.39
207-21	1-5/16											
207-22	1-3/8											
207												
207-23	1-7/16											
SB208-24	1-1/2	40	80	34	18	9	6.2	7	M8X1	29600	18200	0.54
208-25	1-9/16											
208												
SB209-26	1-5/8	45	85	41.2	19	10.2	6.5	8.2	M8X1	31850	20800	0.68
209-27	1-11/16											
209-28	1-3/4											
209												
SB210-30	1-7/8	50	90	43.5	20	10.9	6.5	9.2	M8X1	35100	23200	0.8
210-31	1-15/16											
210												
SB211-32	2	55	100	45.3	23	11.8	7.2	9.8	M8X1	43550	29200	1.00
211-34	2-1/8											
211												
211-35	2-3/16											
SB212-36	2-1/4	60	110	53.7	24	14.9	8	9.8	M10X1.25	47800	32800	1.3
212												
212-39	2-7/16											

Note : Suffix "G" - Relub.; Prefix "C" - Cylindrical O.D..





# BALL BEARING INSERTS



F Seal  
(+Suffix-F)

## GRA2

Eccentric locking collar type

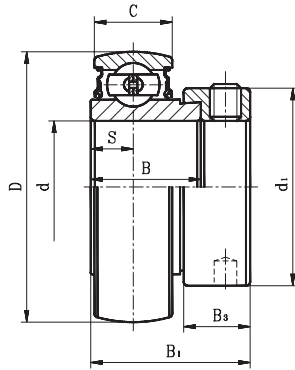
## GRA2G

Relubricatable type

## RA2

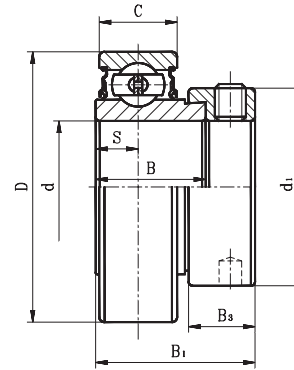
Cylindrical O.D. type

Bearing No.	Shaft Dia.		Dimensions (mm)/(in.)								Basic load ratings (N)		Mass (kg)	
	d		D	C	h	S	B <sub>1</sub>	B	B <sub>3</sub>	d <sub>1</sub>	Dynamic Cr	Static Cor		
	(in.)	(mm)												
GRA201	1/2	12	40	12	3.6	6.5	28.6	19.1	13.5	28.6	9550	4780	0.14	
RA201-8		15											0.14	
202		17											0.13	
202-10		17											0.13	
203	5/8	17	1.5748	0.4724	0.1417	0.2559	1.1260	0.7520	0.5315	1.1260	9550	4780	0.13	
203-11		11/16											0.13	
GRA204-12	3/4	20	47	14	4	7.5	30.9	21.4	13.5	33.3	12800	6650	0.18	
RA204		20											0.15	
GRA205-14	7/8	25	52	15	4.3	7.5	30.9	21.4	13.5	38.1	14000	7880	0.22	
205-15		25											0.21	
205		1											0.19	
205-16		1											0.18	
GRA206-18	1-1/8	30	62	18	5	9	35.7	23.8	15.9	44.5	19500	11200	0.35	
RA206		30											0.33	
206-19		1-3/16											0.31	
206-20		1-1/4											0.29	
GRA207-20	1-1/4	35	72	19	5.7	9.5	38.9	25.4	17.5	55.6	25700	15200	0.56	
RA207-21													1-5/16	0.53
207-22													1-3/8	0.51
207													1-7/16	0.50
207-23													1-7/16	0.48
GRA208-24	1-1/2	40	80	21	6.2	11	43.7	30.2	18.3	60.3	29600	18200	0.68	
RA208-25													1-9/16	0.67
208													1-9/16	0.65
GRA209-26	1-5/8	45	85	22	6.8	11	43.7	30.2	18.3	63.5	31850	20800	0.82	
RA209-27													1-11/16	0.76
209-28													1-3/4	0.73
209													1-3/4	0.69
GRA210-30	1-7/8	50	90	22	6.5	11	43.7	30.2	18.3	69.9	35100	23200	0.85	
RA210-31													1-15/16	0.83
210													1-15/16	0.79
GRA211-32	2	55	100	24	7.2	12	48.4	32.5	20.7	76.2	43550	29200	1.18	
RA211-34													2-1/8	0.96
211													2-3/16	0.87
211-35													2-3/16	0.81
GRA212-36	2-1/4	60	110	24	8	13.5	53.1	37.2	22.3	84.2	47800	32800	1.35	
RA212													2-3/8	
212-38													2-7/16	
212-39													2-7/16	



**SA0**

Eccentric locking collar type

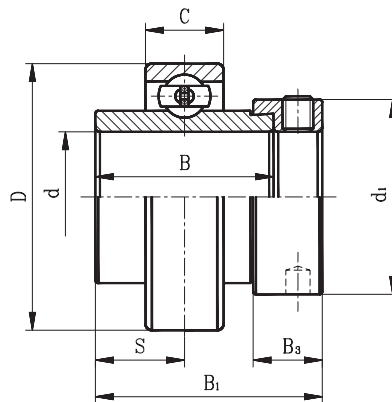


**CSA0**

Cylindrical O.D. Type

Bearing No.	Shaft Dia.		Dimensions (mm)/(in)							Basic load ratings (N)		Mass (kg)
	d (in.)	d (mm)	D	C	B	B <sub>1</sub>	S	B <sub>3</sub>	d <sub>1</sub>	Dynamic Cr	Static Cor	
SA 004-12 004	3/4	20	42 1.6535	12 0.472	16.7 0.6563	24.6 0.9688	6 0.2362	11.1 0.4375	29.8 1.1719	9380	5020	
SA 005-14 005-15 005 005-16	7/8 15/16 1	25	47 1.8504	12 0.472	17.5 0.6875	25.4 1.0000	6 0.2362	11.9 0.4688	36.1 1.4219	10000	5850	
SA 006-18 006 006-19 006-20	1-1/8 1-3/16 1-1/4	30	55 2.1654	13 0.512	18.5 0.7283	26.5 1.0433	6.5 0.2559	11.9 0.4688	42.5 1.6719	13200	8300	

Note : Prefix "C" - Cylindrical O.D.



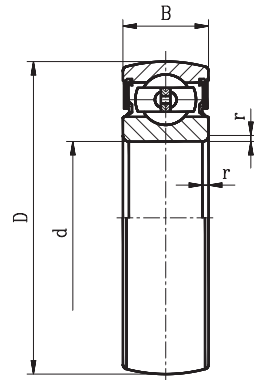
**NAA3**

Cylindrical O.D., Eccentric locking collar type

Bearing No.	Shaft Dia.		Dimensions (mm)/(in)							Eccentric collar	Basic load ratings (N)		Mass (kg)
	d (in.)	d (mm)	D	B	C	S	B <sub>1</sub>	B <sub>3</sub>	d <sub>1</sub>		Dynamic Cr	Static Cor	
NAA306-18 306 306-19	1-1/8 1-3/16	30	72 2.8346	36.5 1.4370	19 0.7480	17.5 0.6890	50 1.9685	17.5 0.6890	50 1.9685	A306-18 306 306-19	27000	15200	0.71 0.68 0.68
NAA310-30 310-31 310	1-7/8 1-15/16	50	110 4.3307	49.2 1.9370	27 1.0630	24.6 0.9685	66.6 2.6220	22.2 0.8740	76.2 3.0000	A310-30 310-31 310	61750	37800	1.93 1.88 1.86

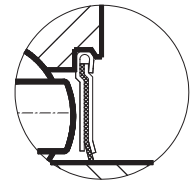
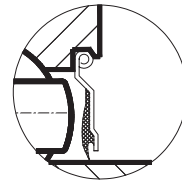
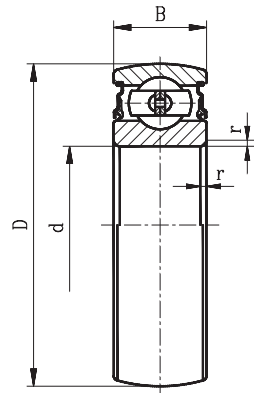


# BALL BEARING INSERTS



## CS2 Series

Bearing No.	Dimensions (mm)				Basic load ratings (N)		Mass (kg)
	d	D	B	r(min)	Dynamic Cr	Static Cor	
CS203	17	40	12	0.6	9580	4780	0.050
CS204	20	47	14	1	12800	6650	0.095
CS205	25	52	15	1	14000	7880	0.11
CS206	30	62	16	1	19500	11500	0.18
CS207	35	72	17	1.1	25500	15200	0.25
CS208	40	80	18	1.1	29500	18000	0.32
CS209	45	85	19	1.1	31500	20800	0.37
CS210	50	90	20	1.1	35000	23200	0.41

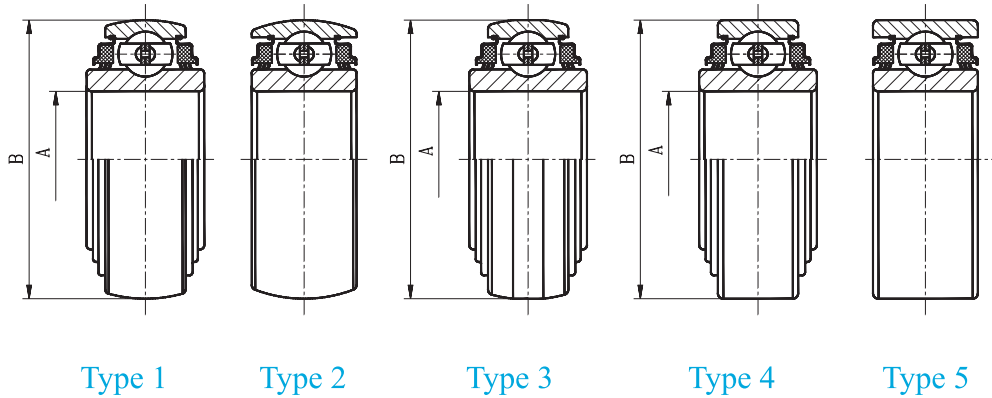


F seal  
(+suffix-F)

## ORAE Series

Bearing No.	Dimensions (mm)				Basic load ratings (N)		Mass (kg)
	d	D	B	r(min)	Dynamic Cr	Static Cor	
ORAE203	17	40	12	0.6	9580	4780	0.05
ORAE204	20	47	14	0.6	12800	6650	0.095
ORAE205	25	52	15	0.6	14000	7880	0.11
ORAE206	30	62	18	0.6	19500	11500	0.21
ORAE207	35	72	19	1.1	25700	15200	0.29
ORAE208	40	80	22	1.1	29500	18200	0.38
ORAE209	45	85	22	1.1	31850	20800	0.44

## Tri-Ply Seal Series Non-Relubricatable Type



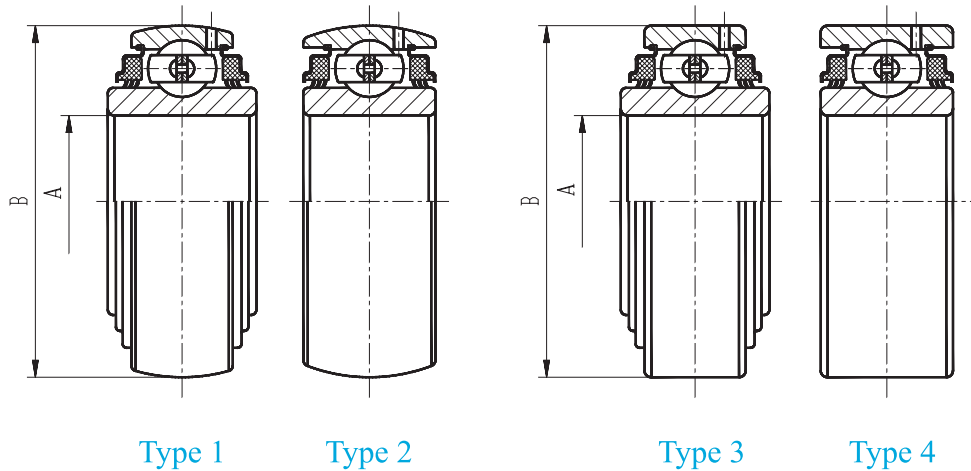
### ROUND BORE

Bearing No.	Type	Bearing Bore Size		Outside Dia.		Ring Width			
		A		B		Inner Ring		Outer Ring	
		(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)
205PPB7	1	0.9375	23.813	2.0472	52	1.3748	34.92	0.591	15
W208PPB7	1	1.1880	30.175	3.1496	80	1.189	30.2	0.709	18
W208PP10	4	1.5005	38.113	3.1496	80	1.691	42.96	0.827	21
W208PPB23	1	1.5005	38.113	3.1496	80	1.691	42.96	1.189	30.2
W209PPB2	2	1.7717	45	3.3460	85	1.189	30.2	1.189	30.2
W209PPB4	2	1.5350	39	3.3460	85	1.189	30.2	1.189	30.2
W210PP2	5	1.9380	49.225	3.5433	90	1.189	30.2	1.189	30.2
W210PPB2	2	1.9380	49.225	3.5433	90	1.189	30.2	1.189	30.2
W211PP2	5	2.1880	55.575	3.9370	100	1.313	33.34	1.313	33.34
W211PPB2	2	2.1880	55.575	3.9370	100	1.313	33.34	1.313	33.34

### SQUARE BORE

Bearing No.	Type	Square Shaft Size	Square Bore Size	Outside Dia.		Ring Width			
		(in.)	(mm)	B		Inner Ring		Outer Ring	
				(in.)	(mm)	(in.)	(mm)	(in.)	(mm)
W208PPB13	1	7/8	23.117	3.1496	80	1.437	36.5	0.709	18
W208PPB6	1	1	26.162	3.1496	80	1.437	36.5	0.709	18
W208PP5	4	1-1/8	29.972	3.1496	80	1.437	36.5	0.709	18
W208PPB5	1	1-1/8	29.972	3.1496	80	1.437	36.5	0.709	18
W208PP8	4	1-1/8	29.972	3.1496	80	1.437	36.5	1.189	30.2
W208PPB8	1	1-1/8	29.972	3.1496	80	1.437	36.5	1.189	30.2
W208PPB11	3	7/8	23.117	3.3760	85.75	1.437	36.5	1.189	30.2
W208PPB12	3	1-1/8	29.972	3.3760	85.75	1.437	36.5	1.189	30.2
W209PPB5	1	1-1/4	32.766	3.3460	85	1.437	36.5	1.189	30.2
W210PP4	5	1-1/8	29.972	3.5433	90	1.189	30.2	1.189	30.2
W210PPB4	2	1-1/8	29.972	3.5433	90	1.189	30.2	1.189	30.2
W211PP3	5	1-1/2	38.89	3.9370	100	1.313	33.34	1.313	33.34
W211PPB3	2	1-1/2	38.89	3.9370	100	1.313	33.34	1.313	33.34
W211PP5	4	1-1/2	38.89	4.0000	101.6	1.750	44.45	1.438	36.52
W211PPB6	3	1-1/2	38.89	4.0772	103.56	1.750	44.45	1.438	36.52

## Tri-Ply Seal Series Relubricatable Type

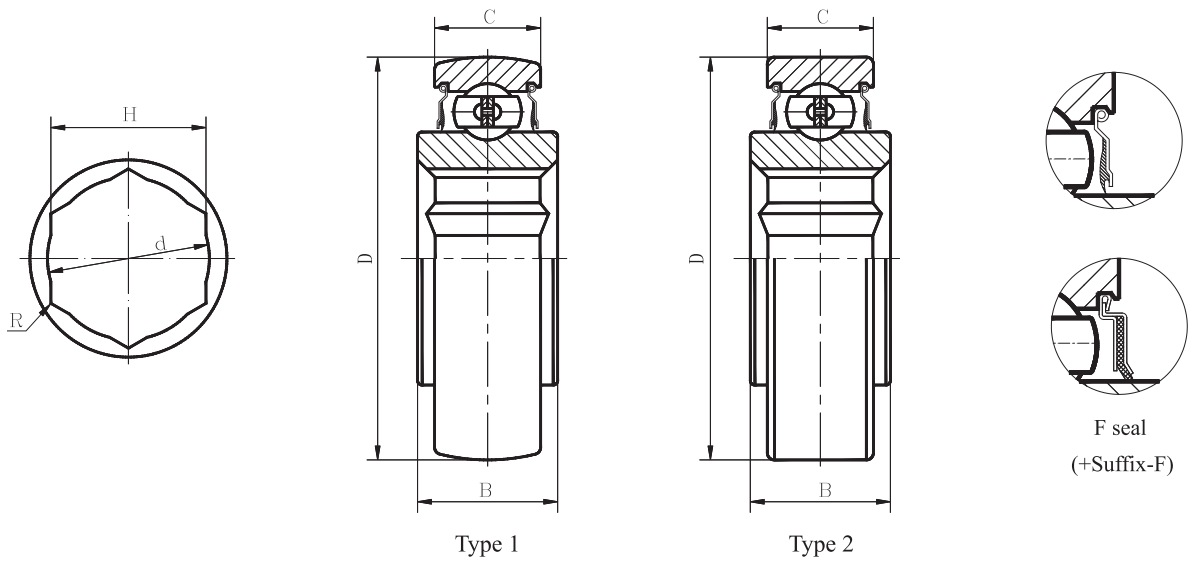


### ROUND BORE

Bearing No.	Type	Bearing Bore Size		Outside dia.		Ring Width			
		A		B		Inner Ring		Outer Ring	
		(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)
205PPB7G	1	0.9375	23.813	2.0472	52	1.375	34.92	0.591	15
GW209PPB4	2	1.5350	39	3.3465	85	1.189	30.2	1.189	30.2
GW209PPB2	2	1.7717	45	3.3465	85	1.189	30.2	1.189	30.2
GW209PPB11	1	1.7810	45.24	3.3465	85	1.437	36.5	0.866	22
GW210PPB2	2	1.9380	49.225	3.5433	90	1.189	30.2	1.189	30.2
GW211PPB2	2	2.1880	55.575	3.9370	100	1.313	33.34	1.313	33.34

### SQUARE BORE

Bearing No.	Type	Square Shaft Size (in.)	Square Bore Size (mm)	Outside Dia.		Ring Width			
				B		Inner Ring		Outer Ring	
				(in.)	(mm)	(in.)	(mm)	(in.)	(mm)
GW208PPB5	1	1-1/8	29.972	3.1496	80	1.437	36.5	0.827	21
GW208PPB8	1	1-1/8	29.972	3.1496	80	1.437	36.5	1.189	30.2
GW208PPB17	1	1-1/8	29.972	3.3755	85.738	1.437	36.5	1.189	30.2
GW209PPB5	1	1-1/4	32.766	3.3465	85	1.437	36.5	1.189	30.2
GW209PPB8	1	1-1/4	32.766	3.3465	85	1.437	36.5	0.866	22
GW210PP4	4	1-1/8	29.972	3.5433	90	1.189	30.2	1.189	30.2
GW210PPB4	2	1-1/8	29.972	3.5433	90	1.189	30.2	1.189	30.2
GW211PP3	4	1-1/2	38.89	3.9370	100	1.313	33.34	1.313	33.34
GW211PPB3	2	1-1/2	38.89	3.9370	100	1.313	33.34	1.313	33.34
GW211PP17	3	1-1/2	38.89	3.9370	100	1.750	44.45	1.313	33.34

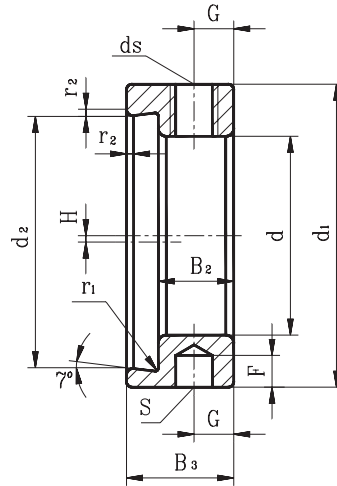


### Hex-bore

Bearing No.	Type	Dimensions (mm)/(in.)						Basic load ratings (N)		Mass (kg)
		H	d	R	D	B	C	Dynamic Cr	Static Cor	
205NPPB AH02	1	22.25 0.8760	22.7 0.8937	0.2 0.0079	52 2.0472	25.4 1.0000	15 0.5906	14000	7880	0.20
206NPPB AH02	1	22.25 0.8760	22.7 0.8937	0.2 0.0079	62 2.4409	24 0.9449	18 0.7087	19500	11200	0.37
206NPPB AH04	1	25.43 1.0012	26 1.0236	0.2 0.0079	62 2.4409	24 0.9449	18 0.7087	19500	11200	0.35
207NPPB AH09	1	28.6 1.1260	29.4 1.1575	0.2 0.0079	72 2.8346	37.7 1.4843	17 0.6693	25700	15200	0.48
207KPP3	2	31.77 1.2508	32.5 1.2795	0.2 0.0079	72 2.8346	37.7 1.4843	17 0.6693	25700	15200	0.45
207KPP17	2	28.6 1.1260	29.4 1.1575	0.2 0.0079	72 2.8346	25 0.9843	17 0.6693	25700	15200	0.42
207KPPB3	1	31.77 1.2508	32.5 1.2795	0.2 0.0079	72 2.8346	25 0.9843	17 0.6693	25700	15200	0.40



# ECCENTRIC LOCKING COLLARS

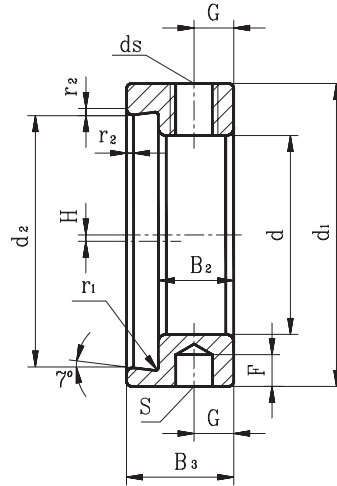


A200

Collar No.	Bore Dia. of Collar		Dimensions (mm)/(in)										Mass (kg)	
	d		d <sub>1</sub>	d <sub>2</sub>	B <sub>2</sub>	B <sub>3</sub>	H	r <sub>1</sub>	r <sub>2</sub>	G	F	S		ds
	(in.)	(mm)												
A201S 201-8S 202S 202-10S 203S 203-11S	1/2 5/8 11/16	12 15 17	28.6 1.1260	21.6 0.8504	9.5 0.3740	13.5 0.5315	0.8 0.0315	0.4 0.0157	0.8 0.0315	5 0.1969	3.5 0.1378	5 0.1969	M6x1 1/4-28UNF	0.07 0.07 0.06 0.06 0.05 0.05
A201 201-8 202 202-10 203 203-11 204-12 204	1/2 5/8 11/16 3/4	12 15 17 20	33.3 1.3110	26.6 1.0472	9.5 0.3740	13.5 0.5315	0.8 0.0315	0.4 0.0157	0.8 0.0315	5 0.1969	4 0.1575	5 0.1969	M6x1 1/4-28UNF	0.09 0.09 0.08 0.08 0.07 0.07 0.06 0.06
A205-14 205-15 205 205-16	7/8 15/16 1	25	38.1 1.5000	31.6 1.2441	9.5 0.3740	13.5 0.5315	0.8 0.0315	0.4 0.0157	0.8 0.0315	5 0.1969	4 0.1575	5 0.1969	M6x1 1/4-28 UNF	0.07 0.06 0.06 0.06
A206-18 206 206-19 206-20	1-1/8 1-3/16 1-1/4	30	44.5 1.7520	37.9 1.4921	11.9 0.4685	15.9 0.6260	0.8 0.0315	0.4 0.0157	0.8 0.0315	6 0.2362	4 0.1575	5 0.1969	M8x1 5/16-24 UNF	0.10 0.10 0.10 0.09
A207-20 207-21 207-22 207 207-23	1-1/4 1-5/16 1-3/8 1-7/16	35	55.6 2.1890	44.7 1.7598	13.5 0.5315	17.5 0.6890	0.8 0.0315	0.4 0.0157	0.8 0.0315	6.5 0.2559	5 0.1969	7 0.2756	M8x1 5/16-24 UNF	0.20 0.19 0.18 0.18 0.17
A208-24 208-25 208	1-1/2 1-9/16	40	60.3 2.3740	49.4 1.9449	13.5 0.5315	18.3 0.7205	1.6 0.0630	0.4 0.0157	1.2 0.0472	6.5 0.2559	5 0.1969	7 0.2756	M8x1 5/16-24UNF	0.22 0.21 0.21
A209-26 209-27 209-28 209	1-5/8 1-11/16 1-3/4	45	63.5 2.5000	54.4 2.1417	13.5 0.5315	18.3 0.7205	1.6 0.0630	0.4 0.0157	1.2 0.0472	6.5 0.2559	5 0.1969	7 0.2756	M8x1 5/16-24UNF	0.25 0.22 0.22 0.22
A210-30 210-31 210	1-7/8 1-15/16	50	69.9 2.7520	59 2.3228	13.5 0.5315	18.3 0.7205	1.6 0.0630	0.4 0.0157	1.2 0.0472	6.5 0.2559	5 0.1969	7 0.2756	M8x1 5/16-24UNF	0.26 0.25 0.24
A211-32 211-34 211 211-35	2 2-1/8 2-3/16	55	76.2 3.0000	65.8 2.5906	15.9 0.6260	20.7 0.8150	1.6 0.0630	0.6 0.0236	1.2 0.0472	8 0.3150	6 0.2362	8.4 0.3307	M10x1.25 3/8-24UNF	0.36 0.33 0.32 0.27
A212-36 212 212-38 212-39	2-1/4 2-3/8 2-7/16	60	84.2 3.3150	71.7 2.8228	15.9 0.6260	22.3 0.8780	1.6 0.0630	0.6 0.0236	1.6 0.0630	8 0.3150	6 0.2362	8.4 0.3307	M10x1.25 3/8-24UNF	0.44 0.41 0.40 0.38
A213-40 213	2-1/2	65	86 3.3858	79 3.1102	17.5 0.6890	23.5 0.9252	1.6 0.0630	0.6 0.0236	1.6 0.0630	8.5 0.3346	6 0.2362	8.4 0.3307	M10x1.25 3/8-24UNF	0.41 0.39
A214-44 214	2-3/4	70	96.8 3.8110	83.3 3.2795	17.1 0.6732	23.5 0.9252	1.6 0.0630	0.6 0.0236	1.6 0.0630	8.5 0.3346	6 0.2362	8.8 0.3465	M10x1.25 3/8-24UNF	0.40
A215 215-48	3	75	102 4.0157	88 3.4646	17.5 0.6890	23.9 0.9409	1.6 0.0630	0.4 0.0157	1.6 0.0630	8.5 0.3346	6 0.2362	8.8 0.3465	M10x1.25 3/8-24UNF	0.63 0.61
A216		80	110 4.3307	94.6 3.7244	20.6 0.8110	27 1.0630	1.6 0.0630	0.4 0.0157	1.6 0.0630	10.3 0.4055	7 0.2756	10.8 0.4252	M12x1.25 7/16-20 UNF	
A217 217-52	3-1/4	85	119 4.6850	101 3.9764	20 0.7874	27 1.0630	1.6 0.0630	0.4 0.0157	1.6 0.0630	10 0.3937	8 0.3150	10.8 0.4252	M12x1.25 7/16-20 UNF	
A218-56 218	3-1/2	90	120 4.7244	105.5 4.1535	17.5 0.6890	24 0.9449	2.4 0.0945	0.4 0.0157	1.6 0.0630	9.5 0.3740	8 0.3150	10.8 0.4252	M12x1.25 7/16-20 UNF	



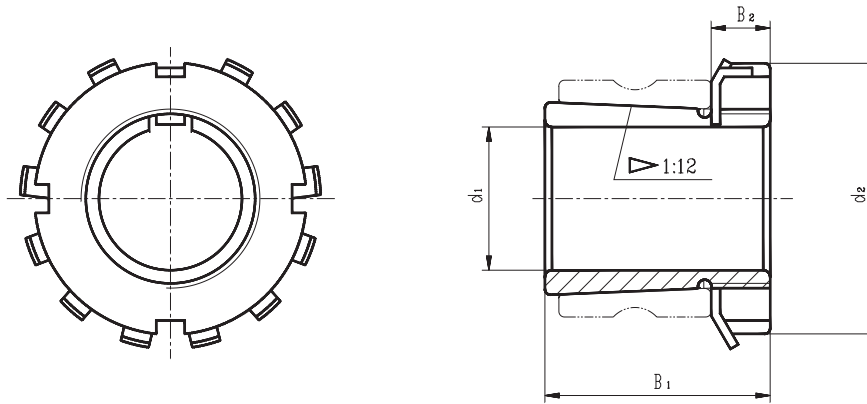
# ECCENTRIC LOCKING COLLARS



## A300

Collar No.	Bore Dia. of Collar		Dimensions (mm)/(in)										Mass (kg)		
	d		d <sub>1</sub>	d <sub>2</sub>	B <sub>2</sub>	B <sub>3</sub>	H	r <sub>1</sub>	r <sub>2</sub>	G	F	S		d <sub>s</sub>	
	(in.)	(mm)													
A305-14 305-15 305	7/8	25	42.8	33.2	11.9	15.9	0.8	0.4	0.8	6	5	7	M8x1	0.11	
305-16	1		1.6850	1.3071	0.4685	0.6260	0.0315	0.0157	0.0315	0.2362	0.1969	0.2756	5/16-24UNF	0.10	
A306-18 306	1-1/8		50	42.4	13.5	17.5	0.8	0.4	0.8	6.7	5	7	M8x1	0.14	
306-19	1-3/16		1.9685	1.6693	0.5315	0.6890	0.0315	0.0157	0.0315	0.2638	0.1969	0.2756	5/16-24UNF	0.13	
A307-20 307-21 307-22 307	1-1/4 1-5/16 1-3/8	35	55	46.7	13.5	17.5	0.8	0.4	0.8	6.7	5	7	M8x1	0.19	
307-23	1-7/16		2.1654	1.8386	0.5315	0.6890	0.0315	0.0157	0.0315	0.2638	0.1969	0.2756	5/16-24UNF	0.18	
A308-24 308-25 308	1-1/2 1-9/16		40	63.5	52.7	15.8	20.6	1.6	0.4	1.2	8	6	8.4	M10x1.25	0.17
			2.5000	2.0748	0.6220	0.8110	0.0630	0.0157	0.0472	0.3150	0.2362	0.3307	3/8-24UNF	0.17	
A309-26 309-27 309-28 309	1-5/8 1-11/16 1-3/4	45	70	58	15.8	20.6	1.6	0.4	1.2	8	6	8.4	M10x1.25	0.34	
			2.7559	2.2835	0.6220	0.8110	0.0630	0.0157	0.0472	0.3150	0.2362	0.3307	3/8-24UNF	0.33	
A310-30 310-31 310	1-7/8 1-15/16		50	76.2	64.9	17.4	22.2	1.6	0.4	1.2	8.7	6	8.4	M10x1.25	0.32
			3.0000	2.5512	0.6850	0.8740	0.0630	0.0157	0.0472	0.3425	0.2362	0.3307	3/8-24UNF	0.31	
A311-32 311-34 311 311-35	2 2-1/8	55	83	71.7	17.4	22.2	1.6	0.4	1.2	9	6	8.4	M10x1.25	0.48	
			3.2677	2.8228	0.6850	0.8740	0.0630	0.0157	0.0472	0.3543	0.2362	0.3307	3/8-24UNF	0.44	
A312-36 312	2-1/4		60	89	76.2	17.5	23.9	1.6	0.4	1.6	9	6	8.4	M10x1.25	0.43
312-38 312-39	2-3/8 2-7/16		3.5039	3.0000	0.6890	0.9409	0.0630	0.0157	0.0630	0.3543	0.2362	0.3307	3/8-24UNF	0.43	
A313-40 313	2-1/2	65	97	83.7	20.6	27	1.6	0.4	1.6	11.5	8	10.5	M12x1.25	0.54	
			3.8189	3.2953	0.8110	1.0630	0.0630	0.0157	0.0630	0.4528	0.3150	0.4134		0.51	
A314-44 314	2-3/4		70	102	90.2	23.8	30.2	1.6	0.4	1.6	12	8	10.5	M12x1.25	0.51
			4.0157	3.5512	0.9370	1.1890	0.0630	0.0157	0.0630	0.4724	0.3150	0.4134	7/16-20UNF	0.49	
A315 315-48	3	75	113	96.7	25.4	31.8	1.6	0.4	1.6	13	10	14.4	M16x1.5	0.69	
			4.4488	3.8071	1.0000	1.2520	0.0630	0.0157	0.0630	0.5118	0.3937	0.5669	5/8-18UNF	0.67	
A316			80	119	102.5	25.4	31.8	2.4	0.4	2	13	12	14.4	M16x1.5	
			4.6850	4.0354	1.0000	1.2520	0.0945	0.0157	0.0787	0.5118	0.4724	0.5669	5/8-18UNF		
A317-52 317	3-1/4	85	127	108.1	25.4	31.8	2.4	0.4	2	13	12	14.4	M16x1.5		
			5.0000	4.2559	1.0000	1.2520	0.0945	0.0157	0.0787	0.5118	0.4724	0.5669	5/8-18UNF		
A318-56 318	3-1/2		90	133	114.6	28.6	36.5	2.4	0.4	2	14.5	12	18.4	M20x1.5	
			5.2362	4.5118	1.1260	1.4370	0.0945	0.0157	0.0787	0.5709	0.4724	0.7244	3/4-16UNF		
A319 319-60	3-3/4	95	140	121.1	28.6	36.5	2.4	0.4	2	14.5	12	18.4	M20x1.5		
			5.5118	4.7677	1.1260	1.4370	0.0945	0.0157	0.0787	0.5709	0.4724	0.7244	3/4-16UNF		
A320 320-64	4		100	146	129.1	28.6	36.5	2.4	0.4	2.5	14.5	12	18.4	M20x1.5	
			5.7480	5.0827	1.1260	1.4370	0.0945	0.0157	0.0984	0.5709	0.4724	0.7244	3/4-16UNF		





## H2300

Adapter No.	Inside Dia. of Sleeve		Dimensions (mm)			Sleeve No.	Locknut No.	Washer No.	Bearing No.
	d1		B1	d2	B2				
	(in.)	(mm)							
HE2305 H2305	3/4	20	35	38	8	AE2305 A2305	KM05	MB05	UK205 UK305
HS2306 HA2306 H2306 HE2306	7/8 15/16 1	25	38	45	8	AS2306 AA2306 A2306 AE2306	KM06	MB06	UK206 UK306
HS2307 H2307 HA2307	1-1/8 1-3/16	30	43	52	9	AS2307 A2307 AA2307	KM07	MB07	UK207 UK307
HE2308 HS2308 H2308	1-1/4 1-3/8	35	46	58	10	AE2308 AS2308 A2308	KM08	MB08	UK208 UK308
HA2309 HE2309 H2309	1-7/16 1-1/2	40	50	65	11	AA2309 AE2309 A2309	KM09	MB09	UK209 UK309
HS2310 HA2310 HE2310 H2310	1-5/8 1-11/16 1-3/4	45	55	70	12	AS2310 AA2310 AE2310 A2310	KM10	MB10	UK210 UK310
HS2311 HA2311 H2311 HE2311	1-7/8 1-15/16 2	50	59	75	12	AS2311 AA2311 A2311 AE2311	KM11	MB11	UK211 UK311
HS2312 H2312	2-1/8	55	62	80	13	AS2312 A2312	KM12	MB12	UK212 UK312
HA2313 HE2313 H2313 HS2313	2-3/16 2-1/4 2-3/8	60	65	85	14	AA2313 AE2313 A2313 AS2313	KM13	MB13	UK213 UK313
HA2315 HE2315 H2315	2-7/16 2-1/2	65	73	98	15	AA2315 AE2315 A2315	KM15	MB15	UK215 UK315
HA2316 HE2316 H2316	2-11/16 2-3/4	70	78	105	17	AA2316 AE2316 A2316	KM16	MB16	UK216 UK316
HA2317 H2317 HE2317	2-15/16 3	75	82	110	18	AA2317 A2317 AE2317	KM17	MB17	UK217 UK317
H2318		80	86	120	18	A2318	KM18	MB18	UK218 UK318
HE2319 H2319	3-1/4	85	90	125	19	AE2319 A2319	KM19	MB19	UK319
HE2320 H2320	3-1/2	90	97	130	20	AE2320 A2320	KM20	MB20	UK320