

BALL BEARING UNITS

SET SCREW TYPE PILLOW BLOCKS CAST HOUSING

SET SCREW TYPE FLANGED UNITS CAST HOUSING

UCF2	Shaft Diameter 12 – 90mm	B292
	1/2 – 3 1/2 inch	
UCFL2	Shaft Diameter 12 – 90mm	B298
	1/2 – 3 1/2 inch	



1. CONSTRUCTION

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

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

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

a slinger is provided on both sides.

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

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

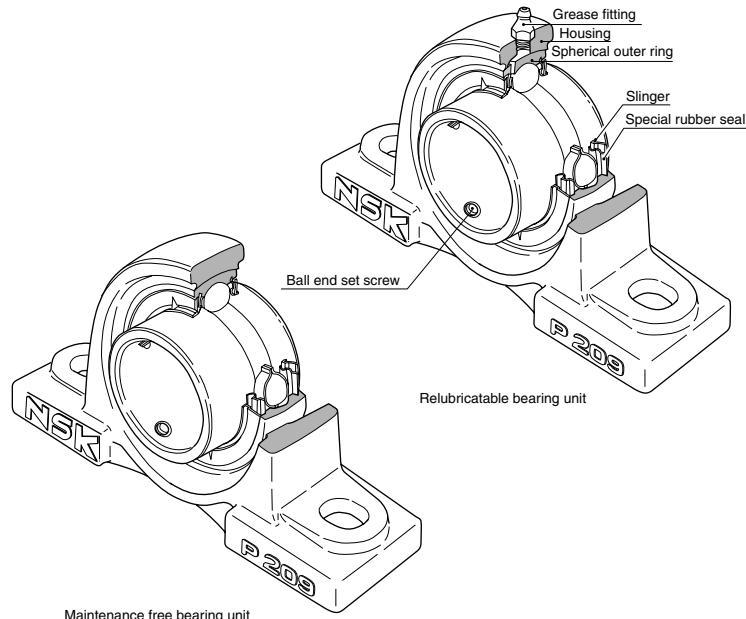


Fig.1.1

2. DESIGN FEATURES AND ADVANTAGES

2.1 MAINTENANCE FREE TYPE

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

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

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

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

2.2 RELUBRICATABLE TYPE

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

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

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

- (1) Cases where the temperature of the bearing rises above 100°C, 212°F:
-Normal temperature of up to 130°C, 266°F heat-resistant bearing units.
- (2) Cases where there is excessive dust, but space does not permit using a bearing unit with a cover.
- (3) Cases where the bearing unit is constantly exposed to splashes of water or any other liquid, but space does not permit using a bearing unit with a cover.
- (4) Cases in which the humidity is very high, and the machine in which the bearing unit is used is run only intermittently.

(5) Cases involving a heavy load of which the Cr/Pr value is about 10 or below, and the speed is 10 min⁻¹ or below, or the movement is oscillatory.

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

2.3 SPECIAL SEALING FEATURE

2.3.1 STANDARD BEARING UNITS

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

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

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

There are triangular protrusions on the outside face of the slinger and, as the bearing rotates, these protrusions on the slinger create a flow of air outward from the bearing. In this way, the slinger acts as a fan which keeps dust and water away from the bearing.

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

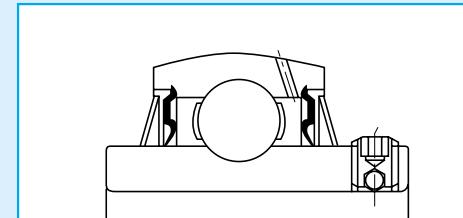


Fig.2.1

2.3.2 BEARING UNITS WITH COVERS

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

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

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

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

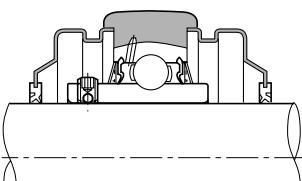


Fig. 2.2 Pressed steel cover

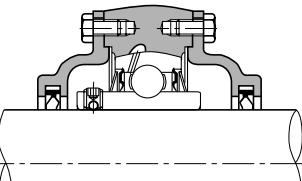


Fig. 2.3 Cast iron cover

2.4 SECURE FITTING

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

2.5 SELF-ALIGNING

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

2.6 HIGHER RATED LOAD CAPACITY

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

2.7 LIGHT WEIGHT YET STRONG HOUSING

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

2.8 EASY MOUNTING

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

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

2.9 ACCURATE FITTING OF THE HOUSING

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

2.10 BEARING REPLACEABILITY

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

3. RECOMMENDED TORQUES FOR TIGHTENING SET SCREWS

Table 3.1 Recommended torques for tightening set screws

A) Metric series, applied to metric bore size.

Designation of the bearings of applicable units	Designation of set screws	Tightening torques N·m (max.)
UC201 to UC205	—	3.9
UC206	UC305 to UC306	4.9
UC207	UCX05	5.8
UC208 to UC210	—	7.8
UC211	UCX06 to UCX08	9.8
UC212	UCX09	16.6
UC213 to UC215	UC308 to UC309	19.6
UC216	UCX10	22.5
—	UCX11 to UCX12	24.5
UC217 to UC218	UCX13 to UCX15	29.4
—	UCX16 to UCX17	34.3
—	UCX18	34.3
—	UCX20	53.9
—	UC320 to UC324	58.8
—	UC326 to UC328	78.4

B) Inch series, applied to inch bore size.

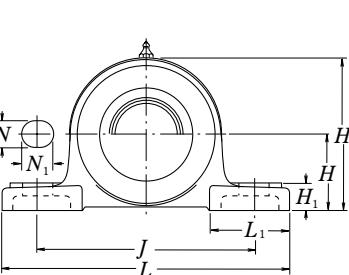
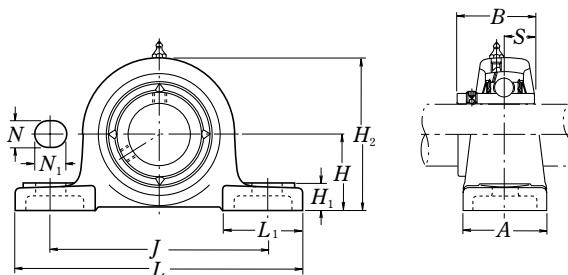
Designation of the bearings for the unit to which torques given are applicable	Designation of set screws	Tightening torques lbf-inch (max.)
UC201 to UC205	—	34
UC206	UC305 to UC306	43
UC207	UCX05	52
UC208 to UC210	—	69
UC211	UCX06 to UCX08	86
UC212	UCX09	147
UC213 to UC215	UC308 to UC309	173
UC216	UCX10	199
—	UCX11 to UCX12	216
UC217 to UC218	UCX13 to UCX15	260
—	UCX16 to UCX17	303
—	UCX18	303
—	UCX20	477
—	UC320	520

Designation of the bearings of applicable units	Designation of set screws	Tightening torques N·m (max.)
AS201 to 205	M5x0.8 × 7	3.4
AS206	M6x0.75× 8	4.4
AS207	M6x0.75× 8	4.9
AS208	M8x1 ×10	6.8

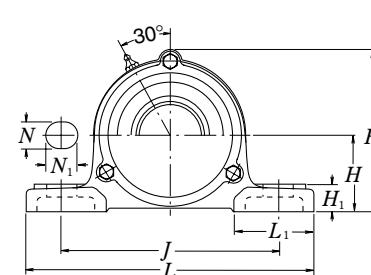
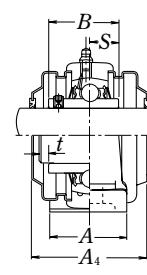
Designation of the bearings for the unit to which torques given are applicable	Designation of set screws	Tightening torques lbf-inch (max.)
AS201 to 205	No 10-32UNF	30
AS206	1/4 -28UNF	39
AS207	1/4 -28UNF	43
AS208	5/16 -24UNF	60

Pillow blocks units cast housing

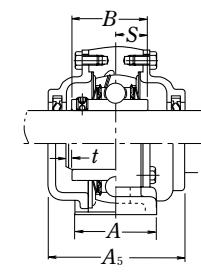
Set screw type



Pressed steel dust cover type

Open end Z-UCP...D1
Closed end ZM-UCP...D1

Cast dust cover type

Open end C-UCP...D1
Closed end CM-UCP...D1

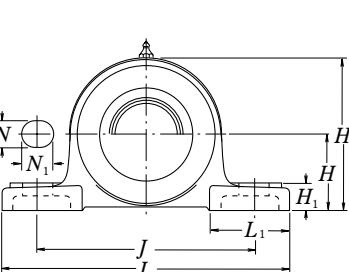
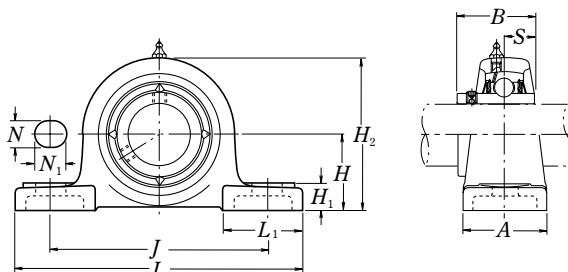
Shaft dia.	Unit number ⁽¹⁾	Nominal dimensions												Bolt size	Bearing number	
		mm inch														
mm	inch	H	L	J	A	N	N ₁	H ₁	H ₂	L ₁	B	S	mm	inch		
12 1/2	UCP201D1	30.2	127	95	38	13	16	14	62	42	31	12.7	M10 3/8	UC201D1		
	UCP201-008D1	13/16	5	33/4	11/2	1/2	5/8	9/16	27/16	121/32	1.2205	0.500		UC201-008D1		
15 9/16	UCP202D1	30.2	127	95	38	13	16	14	62	42	31	12.7	M10 3/8	UC202D1		
	UCP202-009D1	13/16	5	33/4	11/2	1/2	5/8	9/16	27/16	121/32	1.2205	0.500		UCP202-009D1		
	UCP202-010D1													UCP202-010D1		
17 11/16	UCP203D1	30.2	127	95	38	13	16	14	62	42	31	12.7	M10 3/8	UC203D1		
	UCP203-011D1	13/16	5	33/4	11/2	1/2	5/8	9/16	27/16	121/32	1.2205	0.500		UCP203-011D1		
20 3/4	UCP204D1	33.3	127	95	38	13	16	14	65	42	31	12.7	M10 3/8	UC204D1		
	UCP204-012D1	15/16	5	33/4	11/2	1/2	5/8	9/16	29/16	121/32	1.2205	0.500		UCP204-012D1		
25 13/16	UCP205D1	36.5	140	105	38	13	16	15	71	42	34.1	14.3	M10 3/8	UC205D1		
	UCP205-013D1													UCP205-013D1		
	UCP205-014D1	17/16	51/2	41/8	11/2	1/2	5/8	19/32	225/32	121/32	1.3425	0.563		UCP205-014D1		
	UCP205-015D1													UCP205-015D1		
1	UCP205-100D1													UCP205-100D1		
30 11/16	UCP206D1	42.9	165	121	48	17	20	17	83	54	38.1	15.9	M14 1/2	UC206D1		
	UCP206-101D1													UCP206-101D1		
11/8	UCP206-102D1	111/16	61/2	43/4	17/8	21/32	25/32	21/32	39/32	21/8	1.5000	0.626		UCP206-102D1		
	UCP206-103D1													UCP206-103D1		
	UCP206-104D1													UCP206-104D1		
35 11/4	UCP207D1	47.6	167	127	48	17	20	18	93	54	42.9	17.5	M14 1/2	UC207D1		
	UCP207-104D1													UCP207-104D1		
15/16	UCP207-105D1	17/8	69/16	5	17/8	21/32	25/32	23/32	321/32	21/8	1.6890	0.689		UCP207-105D1		
	UCP207-106D1													UCP207-106D1		
13/8	UCP207-107D1													UCP207-107D1		
40 11/2	UCP208D1	49.2	184	137	54	17	20	18	98	52	49.2	19	M14 1/2	UC208D1		
	UCP208-108D1	115/16	71/4	513/32	21/8	21/32	25/32	23/32	327/32	21/16	1.9370	0.748		UCP208-108D1		
	UCP208-109D1													UCP208-109D1		

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

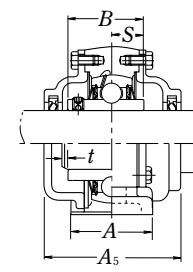
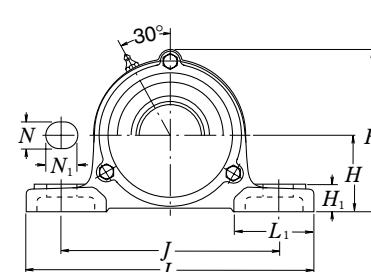
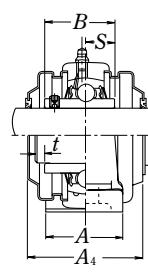
Housing number	Unit number ⁽¹⁾ pressed steel dust cover type	Unit number ⁽¹⁾ cast dust cover type	Nominal dimensions				Mass of unit			
			t max.	A ₄	mm	inch	A ₅	kg	lb	
								UCP	Z(ZM)	C(CM)
P203D1	Z(ZM)-UCP201D1	C(CM)-UCP201D1	2	45	67	62	75	0.7	0.7	1.0
P203D1	Z(ZM)-UCP201-008D1	C(CM)-UCP201-008D1	5/64	125/32	25/8	27/16	1.5	1.5	2.2	
P203D1	Z(ZM)-UCP202D1	C(CM)-UCP202D1	2	45	67	62	75	0.7	0.7	1.0
P203D1	Z(ZM)-UCP202-009D1	C(CM)-UCP202-009D1	5/64	125/32	25/8	27/16	1.5	1.5	2.2	
P203D1	Z(ZM)-UCP202-010D1	C(CM)-UCP202-010D1								
P203D1	Z(ZM)-UCP203D1	C(CM)-UCP203D1	2	45	67	62	75	0.7	0.7	1.0
P203D1	Z(ZM)-UCP203-011D1	C(CM)-UCP203-011D1	5/64	125/32	25/8	27/16	1.5	1.5	2.2	
P204D1	Z(ZM)-UCP204D1	C(CM)-UCP204D1	2	45	70	62	75	0.7	0.7	0.9
P204D1	Z(ZM)-UCP204-012D1	C(CM)-UCP204-012D1	5/64	125/32	23/4	27/16	1.5	1.5	2.0	
P205D1	Z(ZM)-UCP205D1	C(CM)-UCP205D1	2	48	76	70	80	0.8	0.9	1.1
P205D1	Z(ZM)-UCP205-013D1	C(CM)-UCP205-013D1								
P205D1	Z(ZM)-UCP205-014D1	C(CM)-UCP205-014D1								
P205D1	Z(ZM)-UCP205-015D1	C(CM)-UCP205-015D1								
P205D1	Z(ZM)-UCP205-100D1	C(CM)-UCP205-100D1								
P206D1	Z(ZM)-UCP206D1	C(CM)-UCP206D1	2	53	88	75	14	1.4	1.4	1.7
P206D1	Z(ZM)-UCP206-101D1	C(CM)-UCP206-101D1								
P206D1	Z(ZM)-UCP206-102D1	C(CM)-UCP206-102D1								
P206D1	Z(ZM)-UCP206-103D1	C(CM)-UCP206-103D1								
P206D1	—	—								
P207D1	Z(ZM)-UCP207D1	C(CM)-UCP207D1	3	60	99	80	1.6	1.7	2.0	
P207D1	Z(ZM)-UCP207-104D1	C(CM)-UCP207-104D1								
P207D1	Z(ZM)-UCP207-105D1	C(CM)-UCP207-105D1								
P207D1	Z(ZM)-UCP207-106D1	C(CM)-UCP207-106D1								
P207D1	—	—								
P208D1	Z(ZM)-UCP208D1	C(CM)-UCP208D1	3	69	105	90	1.9	2.1	2.7	
P208D1	Z(ZM)-UCP208-108D1	C(CM)-UCP208-108D1	1/8	223/32	41/8	317/32	4.2	4.6	6.0	
P208D1	Z(ZM)-UCP208-109D1	C(CM)-UCP208-109D1								

Pillow blocks units cast housing

Set screw type



Pressed steel dust cover type

Open end Z-UCP...D1
Closed end ZM-UCP...D1

Cast dust cover type

Open end C-UCP...D1
Closed end CM-UCP...D1

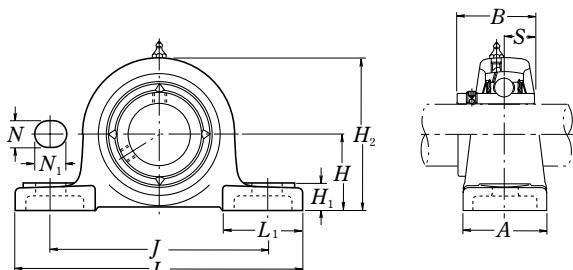
Shaft dia.	Unit number ⁽¹⁾	Nominal dimensions												Bolt size	Bearing number
		mm						inch							
mm	inch	H	L	J	A	N	N ₁	H ₁	H ₂	L ₁	B	S	mm	inch	
45	UCP209D1	54	190	146	54	17	20	20	106	60	49.2	19	M14	UC209D1	
15/8	UCP209-110D1													UC209-110D1	
111/16	UCP209-111D1	21/8	7 ^{15/32}	5 ^{3/4}	21/8	21/32	25/32	25/32	43/16	23/8	1.9370	0.748	1/2	UC209-111D1	
13/4	UCP209-112D1													UC209-112D1	
50	UCP210D1	57.2	206	159	60	20	23	21	114	65	51.6	19	M16	UC210D1	
113/16	UCP210-113D1													UC210-113D1	
17/8	UCP210-114D1	21/4	8 ^{1/8}	6 ^{1/4}	23/8	25/32	29/32	13/16	41/2	29/16	2.0315	0.748	5/8	UC210-114D1	
115/16	UCP210-115D1													UC210-115D1	
2	UCP210-200D1													UC210-200D1	
55	UCP211D1	63.5	219	171	60	20	23	23	126	65	55.6	22.2	M16	UC211D1	
2	UCP211-200D1													UC211-200D1	
21/16	UCP211-201D1	21/2	8 ^{5/8}	6 ^{23/32}	23/8	25/32	29/32	29/32	431/32	29/16	2.1890	0.874	5/8	UC211-201D1	
21/8	UCP211-202D1													UC211-202D1	
23/16	UCP211-203D1													UC211-203D1	
60	UCP212D1	69.8	241	184	70	20	23	25	138	70	65.1	25.4	M16	UC212D1	
21/4	UCP212-204D1													UC212-204D1	
25/16	UCP212-205D1	23/4	91/2	71/4	23/4	25/32	29/32	31/32	57/16	23/4	2.5630	1.000	5/8	UC212-205D1	
23/8	UCP212-206D1													UC212-206D1	
27/16	UCP212-207D1													UC212-207D1	
65	UCP213D1	76.2	265	203	70	25	28	27	151	77	65.1	25.4	M20	UC213D1	
21/2	UCP213-208D1	3	107/16	8	23/4	31/32	13/32	11/16	515/16	31/32	2.5630	1.000	3/4	UC213-208D1	
29/16	UCP213-209D1													UC213-209D1	
70	UCP214D1	79.4	266	210	72	25	28	27	157	77	74.6	30.2	M20	UC214D1	
25/8	UCP214-210D1													UC214-210D1	
211/16	UCP214-211D1	31/8	10 ^{15/32}	8 ^{9/32}	227/32	31/32	13/32	11/16	63/16	31/32	2.9370	1.189	3/4	UC214-211D1	
23/4	UCP214-212D1													UC214-212D1	

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

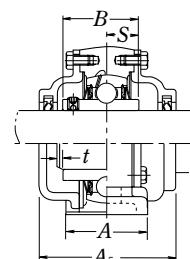
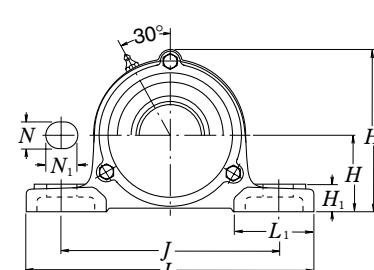
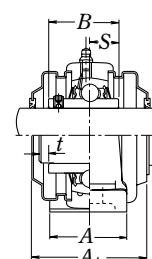
Housing number	Unit number ⁽¹⁾ pressed steel dust cover type	Unit number ⁽¹⁾ cast dust cover type	Nominal dimensions				Mass of unit
			t max.	A ₄	mm inch	A ₅	
							kg lb
							UCP Z(ZM) C(CM)
P209D1	Z(ZM)-UCP209D1	C(CM)-UCP209D1	3	69	113	95	2.2 2.4 3.1
P209D1	Z(ZM)-UCP209-110D1	C(CM)-UCP209-110D1	1/8	2 ^{23/32}	47/16	3 ^{3/4}	4.9 5.3 6.8
P209D1	Z(ZM)-UCP209-111D1	C(CM)-UCP209-111D1					
P209D1	Z(ZM)-UCP209-112D1	C(CM)-UCP209-112D1					
P210D1	Z(ZM)-UCP210D1	C(CM)-UCP210D1	3	76	119	100	2.7 2.8 3.6
P210D1	Z(ZM)-UCP210-113D1	C(CM)-UCP210-113D1	1/8	3	411/16	3 ^{15/16}	6.0 6.2 7.9
P210D1	Z(ZM)-UCP210-114D1	C(CM)-UCP210-114D1					
P210D1	Z(ZM)-UCP210-115D1	C(CM)-UCP210-115D1					
P210D1	Z(ZM)-UCP210-200D1	C(CM)-UCP210-200D1					
P211D1	Z(ZM)-UCP211D1	C(CM)-UCP211D1	4	77	130	100	3.5 3.5 4.4
P211D1	Z(ZM)-UCP211-200D1	C(CM)-UCP211-200D1					
P211D1	Z(ZM)-UCP211-201D1	C(CM)-UCP211-201D1	5/32	31/32	51/8	3 ^{15/16}	7.7 7.7 9.7
P211D1	Z(ZM)-UCP211-202D1	C(CM)-UCP211-202D1					
P211D1	Z(ZM)-UCP211-203D1	C(CM)-UCP211-203D1					
P212D1	Z(ZM)-UCP212D1	C(CM)-UCP212D1	4	89	143	115	4.7 5.0 6.0
P212D1	Z(ZM)-UCP212-204D1	C(CM)-UCP212-204D1	5/32	31/2	55/8	417/32	10 11 13
P212D1	Z(ZM)-UCP212-205D1	C(CM)-UCP212-205D1					
P212D1	Z(ZM)-UCP212-206D1	C(CM)-UCP212-206D1					
P212D1	Z(ZM)-UCP212-207D1	C(CM)-UCP212-207D1					
P213D1	Z(ZM)-UCP213D1	C(CM)-UCP213D1	4	91	155	120	5.6 5.8 7.2
P213D1	Z(ZM)-UCP213-208D1	C(CM)-UCP213-208D1	5/32	319/32	63/32	423/32	12 13 16
P213D1	Z(ZM)-UCP213-209D1	C(CM)-UCP213-209D1					
P214D1	—	C(CM)-UCP214D1	4	—	162	135	6.5 — 8.3
P214D1	—	C(CM)-UCP214-210D1	5/32	—	6 ^{3/8}	55/16	14 — 18
P214D1	—	C(CM)-UCP214-211D1					
P214D1	—	C(CM)-UCP214-212D1					

Pillow blocks units cast housing

Set screw type



Pressed steel dust cover type

Open end Z-UCP...D1
Closed end ZM-UCP...D1

Cast dust cover type

Open end C-UCP...D1
Closed end CM-UCP...D1

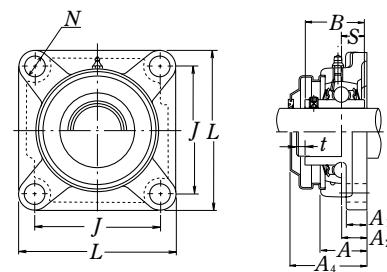
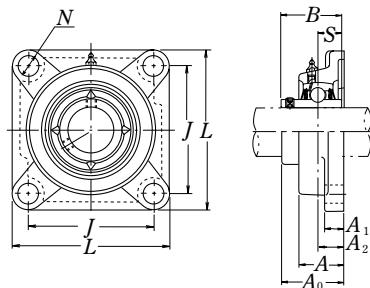
Shaft dia.	Unit number ⁽¹⁾	Nominal dimensions												Bolt size	Bearing number
		mm						inch							
mm	inch	H	L	J	A	N	N ₁	H ₁	H ₂	L ₁	B	S	mm	inch	
75	UCP215D1	82.6	275	217	74	25	28	28	163	80	77.8	33.3	M20	UC215D1	
213/16	UCP215-213D1													UC215-213D1	
27/8	UCP215-214D1	3 1/4	10 13/16	8 17/32	2 29/32	3 1/32	1 3/32	1 3/32	6 13/32	3 5/32	3.0630	1.311	3/4	UC215-214D1	
215/16	UCP215-215D1													UC215-215D1	
3	UCP215-300D1													UC215-300D1	
80	UCP216D1	88.9	292	232	78	25	28	30	175	85	82.6	33.3	M20	UC216D1	
31/16	UCP216-301D1													UC216-301D1	
31/8	UCP216-302D1	3 1/2	11 1/2	9 1/8	3 1/16	3 1/32	1 3/32	1 3/16	6 7/8	3 11/32	3.2520	1.311	3/4	UC216-302D1	
33/16	UCP216-303D1													UC216-303D1	
85	UCP217D1	95.2	310	247	83	25	28	32	187	85	85.7	34.1	M20	UC217D1	
31/4	UCP217-304D1													UC217-304D1	
35/16	UCP217-305D1	3 3/4	127/32	9 23/32	3 9/32	3 1/32	1 3/32	1 1/4	7 3/8	3 11/32	3.3740	1.343	3/4	UC217-305D1	
37/16	UCP217-307D1													UC217-307D1	
90	UCP218D1	101.6	327	262	88	27	30	33	200	90	96	39.7	M22	UC218D1	
31/2	UCP218-308D1	4	12 7/8	10 5/16	3 15/32	1 1/16	1 3/16	1 5/16	7 7/8	3 17/32	3.7795	1.563	7/8	UC218-308D1	

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

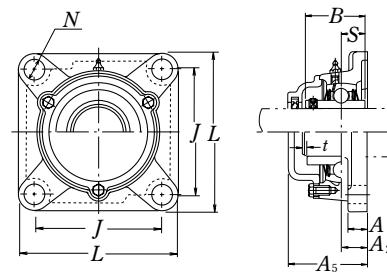
Housing number	Unit number ⁽¹⁾ pressed steel dust cover type	Unit number ⁽¹⁾ cast dust cover type	Nominal dimensions					Mass of unit		
			t max.	A ₄	mm	inch	A ₃	A ₅	kg	lb
			4	—	168	135	7.2	—	9.3	
P215D1	—	C(CM)-UCP215D1	5/32	—	6 5/8	5 5/16	16	—	21	
P215D1	—	C(CM)-UCP215-213D1	—	—	—	—	—	—	—	
P215D1	—	C(CM)-UCP215-214D1	—	—	—	—	—	—	—	
P215D1	—	C(CM)-UCP215-215D1	—	—	—	—	—	—	—	
P215D1	—	C(CM)-UCP215-300D1	—	—	—	—	—	—	—	
P216D1	—	C(CM)-UCP216D1	4	—	181	145	8.7	—	11	
P216D1	—	C(CM)-UCP216-301D1	5/32	—	7 1/8	5 23/32	19	—	24	
P216D1	—	C(CM)-UCP216-302D1	—	—	—	—	—	—	—	
P216D1	—	C(CM)-UCP216-303D1	—	—	—	—	—	—	—	
P217D1	—	C(CM)-UCP217D1	5	—	191	155	11	—	13	
P217D1	—	C(CM)-UCP217-304D1	13/64	—	7 17/32	6 3/32	24	—	29	
P217D1	—	C(CM)-UCP217-305D1	—	—	—	—	—	—	—	
P217D1	—	C(CM)-UCP217-307D1	—	—	—	—	—	—	—	
P218D1	—	C(CM)-UCP218D1	5	—	204	165	13	—	16	
P218D1	—	C(CM)-UCP218-308D1	13/64	—	8 1/32	6 1/2	29	—	35	

Square flanged units cast housing

Set screw type



Pressed steel dust cover type
Open end Z-UCF...D1
Closed end ZM-UCF...D1



Cast dust cover type
Open end C-UCF...D1
Closed end CM-UCF...D1

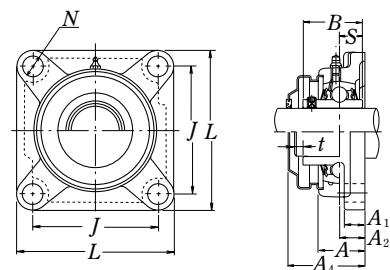
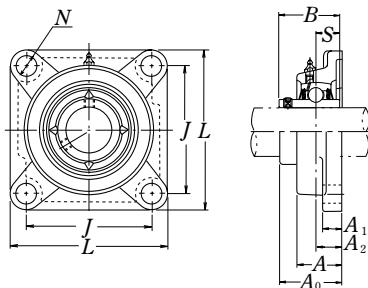
Shaft dia.	Unit number ⁽¹⁾	Nominal dimensions										Bolt size	Bearing number		
		mm					inch								
		L	J	A ₂	A ₁	A	N	A ₀	B	S	mm				
mm	inch										inch				
12 1/2	UCF201D1	86	64	15	11	25.5	12	33.3	31	12.7	M10 3/8	UC201D1			
	UCF201-008D1	3 3/8	2 33/64	19/32	7/16	1	15/32	15/16	1.2205	0.500		UC201-008D1			
15 9/16	UCF202D1	86	64	15	11	25.5	12	33.3	31	12.7	M10 3/8	UC202D1			
	UCF202-009D1	3 3/8	2 33/64	19/32	7/16	1	15/32	15/16	1.2205	0.500		UC202-009D1			
	UCF202-010D1											UC202-010D1			
17 11/16	UCF203D1	86	64	15	11	25.5	12	33.3	31	12.7	M10 3/8	UC203D1			
	UCF203-011D1	3 3/8	2 33/64	19/32	7/16	1	15/32	15/16	1.2205	0.500		UC203-011D1			
20 3/4	UCF204D1	86	64	15	11	25.5	12	33.3	31	12.7	M10 3/8	UC204D1			
	UCF204-012D1	3 3/8	2 33/64	19/32	7/16	1	15/32	15/16	1.2205	0.500		UC204-012D1			
25 13/16	UCF205D1	95	70	16	13	27	12	35.8	34.1	14.3	M10 3/8	UC205D1			
	UCF205-013D1											UC205-013D1			
	UCF205-014D1											UC205-014D1			
	UCF205-015D1											UC205-015D1			
1	UCF205-100D1											UC205-100D1			
30 11/16	UCF206D1	108	83	18	13	31	12	40.2	38.1	15.9	M10 3/8	UC206D1			
	UCF206-101D1											UC206-101D1			
	UCF206-102D1											UC206-102D1			
	UCF206-103D1											UC206-103D1			
	UCF206-104D1											UC206-104D1			
35 11/8	UCF207D1	117	92	19	15	34	14	44.4	42.9	17.5	M12 7/16	UC207D1			
	UCF207-104D1											UC207-104D1			
	UCF207-105D1											UC207-105D1			
	UCF207-106D1											UC207-106D1			
	UCF207-107D1											UC207-107D1			
40 11/2	UCF208D1	130	102	21	15	36	16	51.2	49.2	19	M14 1/2	UC208D1			
	UCF208-108D1	5 1/8	4 1/64	53/64	19/32	113/32	5/8	21/64	1.9370	0.748		UC208-108D1			
	UCF208-109D1											UC208-109D1			

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

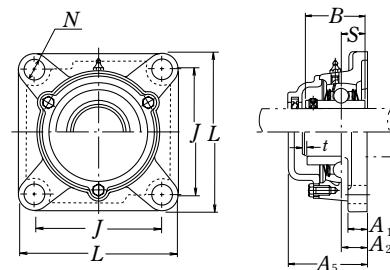
Housing number	Unit number ⁽¹⁾ pressed steel dust cover type	Unit number ⁽¹⁾ cast dust cover type	Nominal dimensions			Mass of unit
			t max.	mm A ₄ inch	A ₅	
F204D1	Z(ZM)-UCF201D1	C(CM)-UCF201D1	2 5/64	38 11/2	46 113/16	0.6 1.3
F204D1	Z(ZM)-UCF201-008D1	C(CM)-UCF201-008D1	5/64	38 11/2	46 113/16	0.6 1.3
F204D1	Z(ZM)-UCF202D1	C(CM)-UCF202D1	2 5/64	38 11/2	46 113/16	0.6 0.6
F204D1	Z(ZM)-UCF202-009D1	C(CM)-UCF202-009D1	5/64	38 11/2	46 113/16	0.6 1.3
F204D1	Z(ZM)-UCF202-010D1	C(CM)-UCF202-010D1	5/64	38 11/2	46 113/16	0.6 1.8
F204D1	Z(ZM)-UCF203D1	C(CM)-UCF203D1	2 5/64	38 11/2	46 113/16	0.6 0.6
F204D1	Z(ZM)-UCF203-011D1	C(CM)-UCF203-011D1	5/64	38 11/2	46 113/16	0.6 1.3
F204D1	Z(ZM)-UCF204D1	C(CM)-UCF204D1	2 5/64	38 11/2	46 113/16	0.6 0.6
F204D1	Z(ZM)-UCF204-012D1	C(CM)-UCF204-012D1	5/64	38 11/2	46 113/16	0.6 1.3
F205D1	Z(ZM)-UCF205D1	C(CM)-UCF205D1	2 5/64	40 119/32	51 2	0.8 1.8
F205D1	Z(ZM)-UCF205-013D1	C(CM)-UCF205-013D1	5/64	40 119/32	51 2	0.8 2.0
F205D1	Z(ZM)-UCF205-014D1	C(CM)-UCF205-014D1	5/64	40 119/32	51 2	0.8 2.0
F205D1	Z(ZM)-UCF205-015D1	C(CM)-UCF205-015D1	5/64	40 119/32	51 2	0.8 2.0
F205D1	Z(ZM)-UCF205-100D1	C(CM)-UCF205-100D1	5/64	40 119/32	51 2	0.8 2.0
F206D1	Z(ZM)-UCF206D1	C(CM)-UCF206D1	2 5/64	45 13/4	56 27/32	1.1 2.4
F206D1	Z(ZM)-UCF206-101D1	C(CM)-UCF206-101D1	5/64	45 13/4	56 27/32	1.1 2.4
F206D1	Z(ZM)-UCF206-102D1	C(CM)-UCF206-102D1	5/64	45 13/4	56 27/32	1.1 2.4
F206D1	Z(ZM)-UCF206-103D1	C(CM)-UCF206-103D1	5/64	45 13/4	56 27/32	1.1 2.4
F206D1	—	C(CM)-UCF206-104D1	—	45 13/4	56 27/32	1.1 2.4
F207D1	Z(ZM)-UCF207D1	C(CM)-UCF207D1	3 1/8	49 115/16	59 25/16	1.5 3.3
F207D1	Z(ZM)-UCF207-104D1	C(CM)-UCF207-104D1	1/8	49 115/16	59 25/16	1.5 3.3
F207D1	Z(ZM)-UCF207-105D1	C(CM)-UCF207-105D1	1/8	49 115/16	59 25/16	1.5 3.3
F207D1	Z(ZM)-UCF207-106D1	C(CM)-UCF207-106D1	1/8	49 115/16	59 25/16	1.5 3.3
F207D1	—	C(CM)-UCF207-107D1	—	49 115/16	59 25/16	1.5 3.3
F208D1	Z(ZM)-UCF208D1	C(CM)-UCF208D1	3 1/8	56 23/16	66 219/32	1.7 3.7
F208D1	Z(ZM)-UCF208-108D1	C(CM)-UCF208-108D1	1/8	56 23/16	66 219/32	1.7 4.0
F208D1	Z(ZM)-UCF208-109D1	C(CM)-UCF208-109D1	1/8	56 23/16	66 219/32	1.7 4.0

Square flanged units cast housing

Set screw type



Pressed steel dust cover type
Open end Z-UCF...D1
Closed end ZM-UCF...D1



Cast dust cover type
Open end C-UCF...D1
Closed end CM-UCF...D1

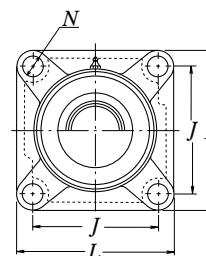
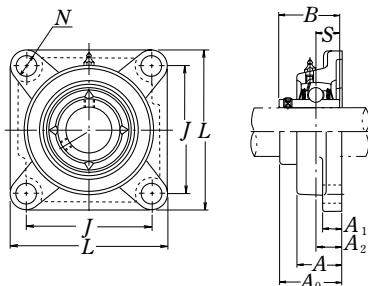
Shaft dia.	Unit number ⁽¹⁾	Nominal dimensions										Bolt size	Bearing number		
		mm inch													
		L	J	A ₂	A ₁	A	N	A ₀	B	S	mm inch				
45 15/8 111/16 13/4	UCF209D1	137	105	22	16	38	16	52.2	49.2	19	M14	UC209D1			
	UCF209-110D1	513/32	49/64	55/64	5/8	11/2	5/8	21/16	1.9370	0.748	1/2	UC209-110D1			
	UCF209-111D1											UC209-111D1			
	UCF209-112D1											UC209-112D1			
50 113/16 17/8 15/16 2	UCF210D1	143	111	22	16	40	16	54.6	51.6	19	M14	UC210D1			
	UCF210-113D1											UC210-113D1			
	UCF210-114D1	55/8	43/8	55/64	5/8	19/16	5/8	25/32	2.0315	0.748	1/2	UC210-114D1			
	UCF210-115D1											UC210-115D1			
	UCF210-200D1											UC210-200D1			
55 2 21/16 21/8 23/16	UCF211D1	162	130	25	18	43	19	58.4	55.6	22.2	M16	UC211D1			
	UCF211-200D1											UC211-200D1			
	UCF211-201D1	63/8	51/8	63/64	23/32	111/16	3/4	219/64	2.1890	0.874	5/8	UC211-201D1			
	UCF211-202D1											UC211-202D1			
	UCF211-203D1											UC211-203D1			
60 21/4 25/16 23/8 27/16	UCF212D1	175	143	29	18	48	19	68.7	65.1	25.4	M16	UC212D1			
	UCF212-204D1											UC212-204D1			
	UCF212-205D1	67/8	55/8	19/64	23/32	17/8	3/4	245/64	2.5630	1.000	5/8	UC212-205D1			
	UCF212-206D1											UC212-206D1			
	UCF212-207D1											UC212-207D1			
65 21/2 29/16	UCF213D1	187	149	30	22	50	19	69.7	65.1	25.4	M16	UC213D1			
	UCF213-208D1	73/8	555/64	13/16	7/8	131/32	3/4	23/4	2.5630	1.000	5/8	UC213-208D1			
	UCF213-209D1											UC213-209D1			
70 25/8 21/16 23/4	UCF214D1	193	152	31	22	54	19	75.4	74.6	30.2	M16	UC214D1			
	UCF214-210D1											UC214-210D1			
	UCF214-211D1	719/32	563/64	17/32	7/8	21/8	3/4	231/32	2.9370	1.189	5/8	UC214-211D1			
	UCF214-212D1											UC214-212D1			

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

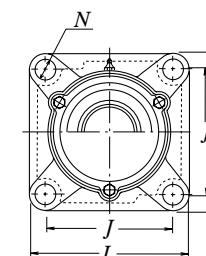
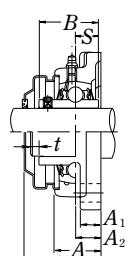
Housing number	Unit number ⁽¹⁾ pressed steel dust cover type	Unit number ⁽¹⁾ cast dust cover type	Nominal dimensions			Mass of unit
			t max.	mm inch	A ₄ A ₅	
F209D1	Z(ZM)-UCF209D1	C(CM)-UCF209D1	3	57	70	2.1
F209D1	Z(ZM)-UCF209-110D1	C(CM)-UCF209-110D1	1/8	21/4	23/4	4.6
F209D1	Z(ZM)-UCF209-111D1	C(CM)-UCF209-111D1				4.9
F209D1	Z(ZM)-UCF209-112D1	C(CM)-UCF209-112D1				5.7
F210D1	Z(ZM)-UCF210D1	C(CM)-UCF210D1	3	60	72	2.5
F210D1	Z(ZM)-UCF210-113D1	C(CM)-UCF210-113D1	1/8	23/8	227/32	5.5
F210D1	Z(ZM)-UCF210-114D1	C(CM)-UCF210-114D1				5.5
F210D1	Z(ZM)-UCF210-115D1	C(CM)-UCF210-115D1				6.6
F210D1	—	C(CM)-UCF210-200D1				
F211D1	Z(ZM)-UCF211D1	C(CM)-UCF211D1	4	64	75	3.3
F211D1	Z(ZM)-UCF211-200D1	C(CM)-UCF211-200D1	5/32	21/2	215/16	7.3
F211D1	Z(ZM)-UCF211-201D1	C(CM)-UCF211-201D1				7.5
F211D1	Z(ZM)-UCF211-202D1	C(CM)-UCF211-202D1				8.8
F211D1	Z(ZM)-UCF211-203D1	C(CM)-UCF211-203D1				
F212D1	Z(ZM)-UCF212D1	C(CM)-UCF212D1	4	74	86	3.9
F212D1	Z(ZM)-UCF212-204D1	C(CM)-UCF212-204D1	5/32	229/32	33/8	8.6
F212D1	Z(ZM)-UCF212-205D1	C(CM)-UCF212-205D1				9.0
F212D1	Z(ZM)-UCF212-206D1	C(CM)-UCF212-206D1				11
F212D1	—	C(CM)-UCF212-207D1				
F213D1	Z(ZM)-UCF213D1	C(CM)-UCF213D1	4	76	90	5.5
F213D1	Z(ZM)-UCF213-208D1	C(CM)-UCF213-208D1	5/32	3	317/32	12
F213D1	Z(ZM)-UCF213-209D1	C(CM)-UCF213-209D1				14
F214D1	—	C(CM)-UCF214D1	4	—	98	6.3
F214D1	—	C(CM)-UCF214-210D1	5/32	—	327/32	14
F214D1	—	C(CM)-UCF214-211D1				16
F214D1	—	C(CM)-UCF214-212D1				

Square flanged units cast housing

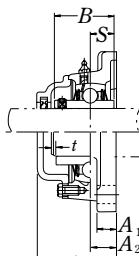
Set screw type



Pressed steel dust cover type
Open end Z-UCF...D1
Closed end ZM-UCF...D1



Cast dust cover type
Open end C-UCF...D1
Closed end CM-UCF...D1



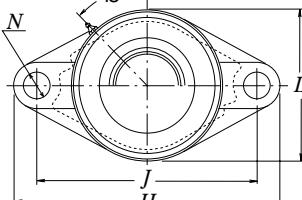
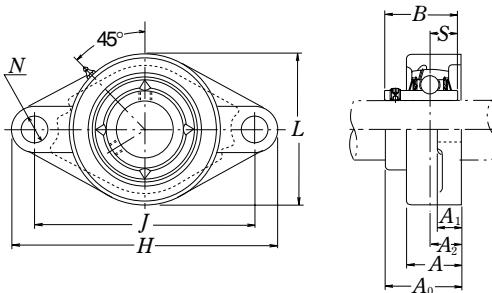
Shaft dia.	Unit number ⁽¹⁾	Nominal dimensions										Bolt size	Bearing number		
		mm inch													
		L	J	A ₂	A ₁	A	N	A ₀	B	S	mm inch				
75 213/16	UCF215D1	200	159	34	22	56	19	78.5	77.8	33.3	M16	UC215D1	UC215-213D1 UC215-214D1 UC215-215D1 UC215-300D1		
	UCF215-213D1	77/8	617/64	111/32	7/8	27/32	3/4	33/32	3.0630	1.311	5/8	UC215-213D1	UC215-214D1		
	UCF215-214D1											UC215-214D1	UC215-215D1		
	UCF215-215D1											UC215-215D1	UC215-300D1		
	UCF215-300D1											UC215-300D1			
80 31/16	UCF216D1	208	165	34	22	58	23	83.3	82.6	33.3	M20	UC216D1	UC216-301D1 UC216-302D1 UC216-303D1		
	UCF216-301D1	83/16	61/2	111/32	7/8	29/32	29/32	39/32	3.2520	1.311	3/4	UC216-301D1	UC216-302D1		
	UCF216-302D1											UC216-302D1	UC216-303D1		
	UCF216-303D1											UC216-303D1			
85 31/4	UCF217D1	220	175	36	24	63	23	87.6	85.7	34.1	M20	UC217D1	UC217-304D1 UC217-305D1 UC217-307D1		
	UCF217-304D1	821/32	657/64	127/64	15/16	215/32	29/32	329/64	3.3740	1.343	3/4	UC217-304D1	UC217-305D1		
	UCF217-305D1											UC217-305D1	UC217-307D1		
	UCF217-307D1											UC217-307D1			
90 31/2	UCF218D1	235	187	40	24	68	23	96.3	96	39.7	M20	UC218D1	UC218-308D1		
	UCF218-308D1	91/4	723/64	137/64	15/16	211/16	29/32	351/64	3.7795	1.563	3/4	UC218-308D1	UC218-308D1		

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

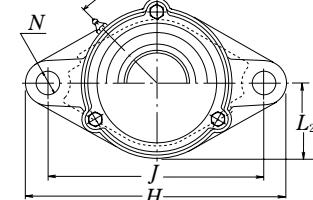
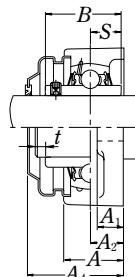
Housing number	Unit number ⁽¹⁾ pressed steel dust cover type	Unit number ⁽¹⁾ cast dust cover type	Nominal dimensions			Mass of unit
			t max.	mm inch	A ₄ A ₅	
F215D1	—	C(CM)-UCF215D1	4	—	102	6.6
F215D1	—	C(CM)-UCF215-213D1	5/32	—	41/32	15
F215D1	—	C(CM)-UCF215-214D1	—	—	—	17
F215D1	—	C(CM)-UCF215-215D1	—	—	—	—
F215D1	—	C(CM)-UCF215-300D1	—	—	—	—
F216D1	—	C(CM)-UCF216D1	4	—	106	7.9
F216D1	—	C(CM)-UCF216-301D1	5/32	—	43/16	17
F216D1	—	C(CM)-UCF216-302D1	—	—	—	21
F216D1	—	C(CM)-UCF216-303D1	—	—	—	—
F217D1	—	C(CM)-UCF217D1	5	—	114	9.8
F217D1	—	C(CM)-UCF217-304D1	13/64	—	41/2	22
F217D1	—	C(CM)-UCF217-305D1	—	—	—	26
F217D1	—	C(CM)-UCF217-307D1	—	—	—	—
F218D1	—	C(CM)-UCF218D1	5	—	122	12
F218D1	—	C(CM)-UCF218-308D1	13/64	—	413/16	26

Rhombus flanged units cast housing

Set screw type



Pressed steel dust cover type
Open end Z-UCFL--D1
Closed end ZM-UCFL--D1



Cast dust cover type
Open end C-UCFL--D1
Closed end CM-UCFL--D1

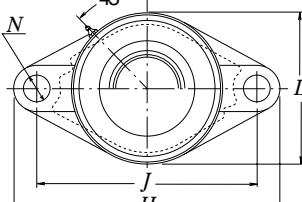
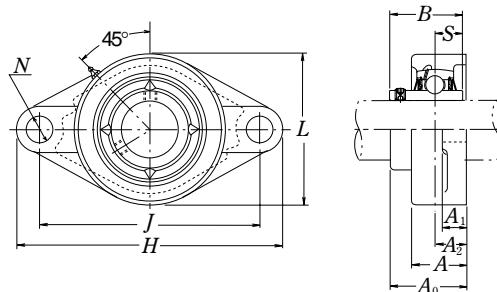
Shaft dia.	Unit number(1)	Nominal dimensions										Bolt size	Bearing number
		mm					inch						
mm	inch	H	J	A ₂	A ₁	A	N	L	A ₀	B	S	mm	inch
12 1/2	UCFL201D1	113	90	15	11	25.5	12	60	33.3	31	12.7	M10 3/8	UC201D1
	UCFL201-008D1	47/16	335/64	19/32	7/16	1	15/32	23/8	15/16	1.2205	0.500		UC201-008D1
15 9/16	UCFL202D1	113	90	15	11	25.5	12	60	33.3	31	12.7	M10 3/8	UC202D1
	UCFL202-009D1	47/16	335/64	19/32	7/16	1	15/32	23/8	15/16	1.2205	0.500		UC202-009D1
	UCFL202-010D1												UC202-010D1
17 11/16	UCFL203D1	113	90	15	11	25.5	12	60	33.3	31	12.7	M10 3/8	UC203D1
	UCFL203-011D1	47/16	335/64	19/32	7/16	1	15/32	23/8	15/16	1.2205	0.500		UC203-011D1
20 3/4	UCFL204D1	113	90	15	11	25.5	12	60	33.3	31	12.7	M10 3/8	UC204D1
	UCFL204-012D1	47/16	335/64	19/32	7/16	1	15/32	23/8	15/16	1.2205	0.500		UC204-012D1
25 13/16	UCFL205D1	130	99	16	13	27	16	68	35.8	34.1	14.3	M14 1/2	UC205D1
	UCFL205-013D1												UC205-013D1
	UCFL205-014D1												UC205-014D1
	UCFL205-015D1												UC205-015D1
1	UCFL205-100D1												UC205-100D1
30 11/16	UCFL206D1	148	117	18	13	31	16	80	40.2	38.1	15.9	M14 1/2	UC206D1
	UCFL206-101D1												UC206-101D1
	UCFL206-102D1												UC206-102D1
	UCFL206-103D1												UC206-103D1
	UCFL206-104D1												UC206-104D1
35 11/4	UCFL207D1	161	130	19	15	34	16	90	44.4	42.9	17.5	M14 1/2	UC207D1
	UCFL207-104D1												UC207-104D1
	UCFL207-105D1												UC207-105D1
	UCFL207-106D1												UC207-106D1
	UCFL207-107D1												UC207-107D1
40 11/2	UCFL208D1	175	144	21	15	36	16	100	51.2	49.2	19	M14 1/2	UC208D1
	UCFL208-108D1	67/8	543/64	53/64	19/32	113/32	5/8	315/16	21/64	1.9370	0.748		UC208-108D1
	UCFL208-109D1												UC208-109D1

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

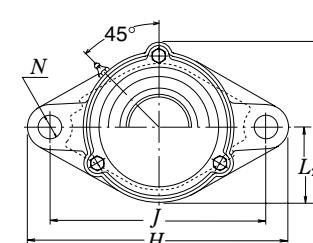
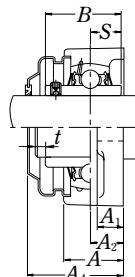
Housing number	Unit number (1) pressed steel dust cover type	Unit number (1) cast dust cover type	Nominal dimensions					Mass of unit				
			t max.	A ₄	A ₅	L ₁	L ₂	kg	lb	UCFL	Z(ZM)	C(CM)
			mm	inch	mm	inch	kg	lb	UCFL	Z(ZM)	C(CM)	
FL204D1	Z(ZM)-UCFL201D1	C(CM)-UCFL201D1	2 5/64	38 11/2	46 113/16	67 25/8	30 13/16	0.5	0.5	0.6	1.1	1.3
FL204D1	Z(ZM)-UCFL201-008D1	C(CM)-UCFL201-008D1										
FL204D1	Z(ZM)-UCFL202D1	C(CM)-UCFL202D1	2 5/64	38 11/2	46 113/16	67 25/8	30 13/16	0.5	0.5	0.6	1.1	1.3
FL204D1	Z(ZM)-UCFL202-009D1	C(CM)-UCFL202-009D1										
FL204D1	Z(ZM)-UCFL202-010D1	C(CM)-UCFL202-010D1										
FL204D1	Z(ZM)-UCFL203D1	C(CM)-UCFL203D1	2 5/64	38 11/2	46 113/16	67 25/8	30 13/16	0.5	0.5	0.6	1.1	1.3
FL204D1	Z(ZM)-UCFL203-011D1	C(CM)-UCFL203-011D1										
FL204D1	Z(ZM)-UCFL204D1	C(CM)-UCFL204D1	2 5/64	38 11/2	46 113/16	67 25/8	30 13/16	0.4	0.4	0.6	0.9	1.3
FL204D1	Z(ZM)-UCFL204-012D1	C(CM)-UCFL204-012D1										
FL205D1	Z(ZM)-UCFL205D1	C(CM)-UCFL205D1	2 5/64	40 119/32	51 2 229/32	74 111/32	34 111/32	0.6	0.6	0.8	1.3	1.8
FL205D1	Z(ZM)-UCFL205-013D1	C(CM)-UCFL205-013D1										
FL205D1	Z(ZM)-UCFL205-014D1	C(CM)-UCFL205-014D1										
FL205D1	Z(ZM)-UCFL205-015D1	C(CM)-UCFL205-015D1										
FL205D1	Z(ZM)-UCFL205-100D1	C(CM)-UCFL205-100D1										
FL206D1	Z(ZM)-UCFL206D1	C(CM)-UCFL206D1	2 5/64	45 13/4	56 27/32	85 311/32	40 19/16	0.9	0.9	1.2	2.0	2.6
FL206D1	Z(ZM)-UCFL206-101D1	C(CM)-UCFL206-101D1										
FL206D1	Z(ZM)-UCFL206-102D1	C(CM)-UCFL206-102D1										
FL206D1	Z(ZM)-UCFL206-103D1	C(CM)-UCFL206-103D1										
FL207D1	Z(ZM)-UCFL207D1	C(CM)-UCFL207D1	3 1/8	49 115/16	59 25/16	97 313/16	45 125/32	1.2	1.2	1.4	2.6	3.1
FL207D1	Z(ZM)-UCFL207-104D1	C(CM)-UCFL207-104D1										
FL207D1	Z(ZM)-UCFL207-105D1	C(CM)-UCFL207-105D1										
FL207D1	Z(ZM)-UCFL207-106D1	C(CM)-UCFL207-106D1										
FL207D1	Z(ZM)-UCFL207-107D1	C(CM)-UCFL207-107D1										
FL208D1	Z(ZM)-UCFL208D1	C(CM)-UCFL208D1	3 1/8	56 23/16	66 219/32	106 43/16	50 131/32	1.5	1.5	1.9	3.3	4.2
FL208D1	Z(ZM)-UCFL208-108D1	C(CM)-UCFL208-108D1										
FL208D1	Z(ZM)-UCFL208-109D1	C(CM)-UCFL208-109D1										

Rhombus flanged units cast housing

Set screw type



Pressed steel dust cover type
Open end Z-UCFL--D1
Closed end ZM-UCFL--D1



Cast dust cover type
Open end C-UCFL--D1
Closed end CM-UCFL--D1

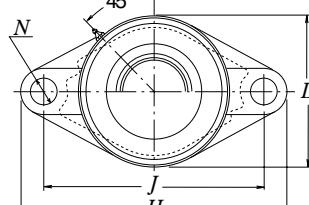
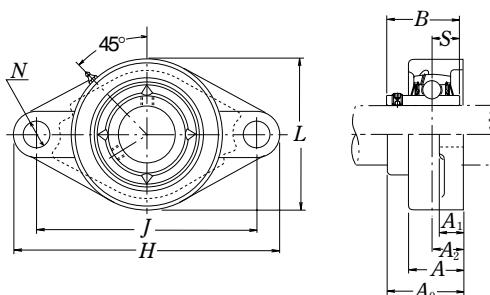
Shaft dia.	Unit number ⁽¹⁾	Nominal dimensions										Bolt size	Bearing number		
		mm inch													
		H	J	A ₂	A ₁	A	N	L	A ₀	B	S				
45 15/8 11/16 13/4	UCFL209D1	188	148	22	16	38	19	108	52.2	49.2	19	M16	UC209D1		
	UCFL209-110D1	713/32	553/64	55/64	5/8	11/2	3/4	41/4	21/16	1.9370	0.748	5/8	UC209-110D1		
	UCFL209-111D1												UC209-111D1		
	UCFL209-112D1												UC209-112D1		
50 113/16 17/8 115/16 2	UCFL210D1	197	157	22	16	40	19	115	54.6	51.6	19	M16	UC210D1		
	UCFL210-113D1												UC210-113D1		
	UCFL210-114D1	73/4	63/16	55/64	5/8	19/16	3/4	417/32	25/32	2.0315	0.748	5/8	UC210-114D1		
	UCFL210-115D1												UC210-115D1		
55 2 21/16 21/8 23/16	UCFL211D1	224	184	25	18	43	19	130	58.4	55.6	22.2	M16	UC211D1		
	UCFL211-200D1												UC211-200D1		
	UCFL211-201D1	813/16	71/4	63/64	23/32	111/16	3/4	51/8	219/64	2.1890	0.874	5/8	UC211-201D1		
	UCFL211-202D1												UC211-202D1		
	UCFL211-203D1												UC211-203D1		
60 21/4 25/16 23/8 27/16	UCFL212D1	250	202	29	18	48	23	140	68.7	65.1	25.4	M20	UC212D1		
	UCFL212-204D1												UC212-204D1		
	UCFL212-205D1	927/32	761/64	19/64	23/32	17/8	29/32	51/2	245/64	2.5630	1.000	3/4	UC212-205D1		
	UCFL212-206D1												UC212-206D1		
	UCFL212-207D1												UC212-207D1		
65 21/2 29/16	UCFL213D1	258	210	30	22	50	23	155	69.7	65.1	25.4	M20	UC213D1		
	UCFL213-208D1												UC213-208D1		
	UCFL213-209D1	105/32	817/64	13/16	7/8	131/32	29/32	63/32	23/4	2.5630	1.000	3/4	UC213-209D1		
70 25/8 211/16 23/4	UCFL214D1	265	216	31	22	54	23	160	75.4	74.6	30.2	M20	UC214D1		
	UCFL214-210D1												UC214-210D1		
	UCFL214-211D1	107/16	81/2	17/32	7/8	21/8	29/32	65/16	231/32	2.9370	1.189	3/4	UC214-211D1		
	UCFL214-212D1												UC214-212D1		

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

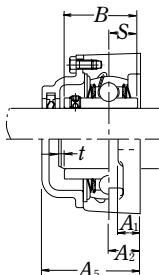
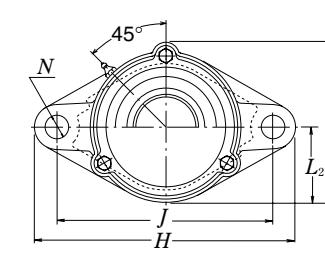
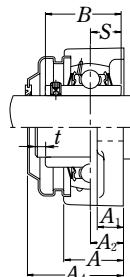
Housing number	Unit number ⁽¹⁾ pressed steel dust cover type	Unit number ⁽¹⁾ cast dust cover type	Nominal dimensions					Mass of unit				
			t max.	A ₄	A ₅	L ₁	L ₂	kg	lb	UCFL	Z(ZM)	C(CM)
FL209D1	Z(ZM)-UCFL209D1	C(CM)-UCFL209D1	3	57	70	113	54	1.8	1.9	2.3		
FL209D1	Z(ZM)-UCFL209-110D1	C(CM)-UCFL209-110D1	1/8	21/4	23/4	47/16	21/8	4.0	4.2	5.1		
FL209D1	Z(ZM)-UCFL209-111D1	C(CM)-UCFL209-111D1										
FL209D1	Z(ZM)-UCFL209-112D1	C(CM)-UCFL209-112D1										
FL210D1	Z(ZM)-UCFL210D1	C(CM)-UCFL210D1	3	60	72	120	58	2.0	2.1	2.7		
FL210D1	Z(ZM)-UCFL210-113D1	C(CM)-UCFL210-113D1										
FL210D1	Z(ZM)-UCFL210-114D1	C(CM)-UCFL210-114D1										
FL210D1	Z(ZM)-UCFL210-115D1	C(CM)-UCFL210-115D1										
FL210D1	Z(ZM)-UCFL210-200D1	C(CM)-UCFL210-200D1										
FL211D1	Z(ZM)-UCFL211D1	C(CM)-UCFL211D1	4	64	75	133	65	2.9	3.0	3.4		
FL211D1	Z(ZM)-UCFL211-200D1	C(CM)-UCFL211-200D1										
FL211D1	Z(ZM)-UCFL211-201D1	C(CM)-UCFL211-201D1										
FL211D1	Z(ZM)-UCFL211-202D1	C(CM)-UCFL211-202D1										
FL211D1	Z(ZM)-UCFL211-203D1	C(CM)-UCFL211-203D1										
FL212D1	Z(ZM)-UCFL212D1	C(CM)-UCFL212D1	4	74	86	144	70	3.8	4.0	4.6		
FL212D1	Z(ZM)-UCFL212-204D1	C(CM)-UCFL212-204D1										
FL212D1	Z(ZM)-UCFL212-205D1	C(CM)-UCFL212-205D1										
FL212D1	Z(ZM)-UCFL212-206D1	C(CM)-UCFL212-206D1										
FL212D1	Z(ZM)-UCFL212-207D1	C(CM)-UCFL212-207D1										
FL213D1	Z(ZM)-UCFL213D1	C(CM)-UCFL213D1	4	76	90	157	78	4.8	4.9	5.8		
FL213D1	Z(ZM)-UCFL213-208D1	C(CM)-UCFL213-208D1										
FL213D1	Z(ZM)-UCFL213-209D1	C(CM)-UCFL213-209D1										
FL214D1	—	C(CM)-UCFL214D1	4	—	98	164	80	5.4	—	7.7		
FL214D1	—	C(CM)-UCFL214-210D1										
FL214D1	—	C(CM)-UCFL214-211D1										
FL214D1	—	C(CM)-UCFL214-212D1										

Rhombus flanged units cast housing

Set screw type



Pressed steel dust cover type
Open end Z-UCFL--D1
Closed end ZM-UCFL--D1



Cast dust cover type
Open end C-UCFL--D1
Closed end CM-UCFL--D1

Shaft dia.	Unit number ⁽¹⁾	Nominal dimensions										Bolt size	Bearing number
		mm					inch						
mm	inch	H	J	A ₂	A ₁	A	N	L	A ₀	B	S	mm	inch
75 213/16	UCFL215D1	275	225	34	22	56	23	165	78.5	77.8	33.3	M20	UC215D1
	UCFL215-213D1	1013/16	855/64	111/32	7/8	27/32	29/32	61/2	33/32	3.0630	1.311	3/4	UC215-213D1
	UCFL215-214D1												UC215-214D1
	UCFL215-215D1												UC215-215D1
3	UCFL215-300D1												UC215-300D1
80 31/16	UCFL216D1	290	233	34	22	58	25	180	83.3	82.6	33.3	M22	UC216D1
	UCFL216-301D1	1113/32	911/64	111/32	7/8	29/32	63/64	73/32	39/32	3.2520	1.311	7/8	UC216-301D1
	UCFL216-302D1												UC216-302D1
	UCFL216-303D1												UC216-303D1
85 31/4	UCFL217D1	305	248	36	24	63	25	190	87.6	85.7	34.1	M22	UC217D1
	UCFL217-304D1	12	949/64	127/64	15/16	215/32	63/64	715/32	329/64	3.3740	1.343	7/8	UC217-304D1
	UCFL217-305D1												UC217-305D1
	UCFL217-307D1												UC217-307D1
90 31/2	UCFL218D1	320	265	40	24	68	25	205	96.3	96	39.7	M22	UC218D1
	UCFL218-308D1	1219/32	107/16	137/64	15/16	211/16	63/64	81/16	351/64	3.7795	1.563	7/8	UC218-308D1

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

Housing number	Unit number ⁽¹⁾ pressed steel dust cover type	Unit number ⁽¹⁾ cast dust cover type	Nominal dimensions					Mass of unit		
			t max.	A ₄	A ₅	L ₁	L ₂	kg	lb	
								UCFL	Z(ZM)	C(CM)
FL215D1	—	C(CM)-UCFL215D1	4	—	102	169	82	6.0	—	7.1
	FL215D1	C(CM)-UCFL215-213D1	5/32	—	41/32	621/32	37/32	13	—	16
	FL215D1	C(CM)-UCFL215-214D1	5/32	—	43/32	77/32	317/32	16	—	19
	FL215D1	C(CM)-UCFL215-215D1	5/32	—	41/2	79/16	33/4	19	—	22
	FL215D1	C(CM)-UCFL215-300D1	13/64	—	413/16	81/16	41/32	24	—	29
FL216D1	—	C(CM)-UCFL216D1	4	—	106	183	90	7.4	—	8.6
	FL216D1	C(CM)-UCFL216-301D1	5/32	—	43/16	77/32	317/32	16	—	19
	FL216D1	C(CM)-UCFL216-302D1	5/32	—	41/2	79/16	33/4	19	—	22
	FL216D1	C(CM)-UCFL216-303D1	13/64	—	413/16	81/16	41/32	24	—	29
FL217D1	—	C(CM)-UCFL217D1	5	—	114	192	95	8.8	—	10
	FL217D1	C(CM)-UCFL217-304D1	13/64	—	41/2	79/16	33/4	19	—	22
	FL217D1	C(CM)-UCFL217-305D1	13/64	—	413/16	81/16	41/32	24	—	29
	FL217D1	C(CM)-UCFL217-307D1	13/64	—	413/16	81/16	41/32	24	—	29
FL218D1	—	C(CM)-UCFL218D1	5	—	122	205	102	11	—	13
	FL218D1	C(CM)-UCFL218-308D1	13/64	—	413/16	81/16	41/32	24	—	29