BALL BEARING UNITS










제일베어링공업(주)
JEIL BEARING IND.CO.,LTD.

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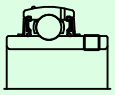
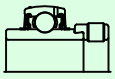
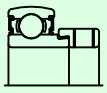
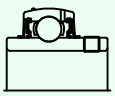
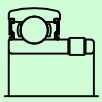
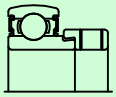
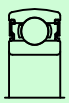
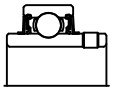
JIB

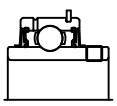
※ Bearing and Housing Units Table

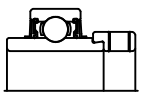
Bearing type \ Housing type			Pillow block				Square flange		Oval flange			
			P	PA	PH	LP	F	FS	FL	FA	FB	LF
												
Set screw	UC2-C01 UCX-C02 UC3-C03		UCP2-B01 UCPX-B02 UCP3-B03	UCPA2-B08	UCPH2-B09		UCF2-B11 UCFX-B12 UCF3-B13	UCFS3-B17	UCFL2-B19 UCFLX-B20 UCFL3-B21	UCFA2-B25	UCFB2-B26	
	SB2-C05					SBLP2-B10						SBLF2-B27
Eccentric locking collar	HC2-C07		HCP2-B07									
	SA2-C08					SALP2-B10						SALF2-B27
Adapter	UK2-C09 UKX-C10 UK3-C11		UKP2-B04 UKPX-B05 UKP3-B06				UKF2-B14 UKFX-B15 UKF3-B16	UKFS3-B18	UKFL2-B22 UKFLX-B23 UKFL3-B24			
Tight fit	SC2-C12											
Stainless series	SUC2-D05											
Clean series	USB0-E03 MUSB0-E03											
	USA0-E04 MUSA0-E04											
	USC0-E05											
Others			UR2 - C04 						CSB2 - C05 			

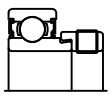
* Adapter : H2300,HS2300, HE2300 - C13 / H300, HS300, HE300 - C14

* Remark : Type – Page

Round Flange		Take-up	Others		Pressed steel			Stainless series				Clean series	
FC	FCC	T	C	HA	PP	PFL	PF	SP	SF	SFL	ST	UP	UFL
													
UCFC2–B28 UCFCX–B29		UCT2–B34 UCTX–B35 UCT3–B36	UCC2–B40 UCCX–B41 UCC3–B42	UCHA2–B46									
	SBFCC2 –B33				SBPP2 –B47	SBPFL2 –B48	SBPF2 –B49						
	SAFCC2 –B32				SAPP2 –B47	SAPFL2 –B48	SAPF2 –B49						
UKFC2–B30 UKFCX–B31		UKT2–B37 UKTX–B38 UKT3–B39	UKC2–B43 UKCX–B44 UKC3–B45										
								SUCP2 –D01	SUCF2 –D02	SUCFL2 –D03	SUCT2 –D04		
												USBP0 –E01 MUSBP0 –E01	USBFL0 –E02 MUSBFL0 –E02
												USAP0 –E01 MUSAP0 –E01	USAFL0 –E02 MUSAFL0 –E02
												USCP0 –E01	USCFL0 –E02

SER2 – C06 

CHC2 – C07 

CSA2 – C08 

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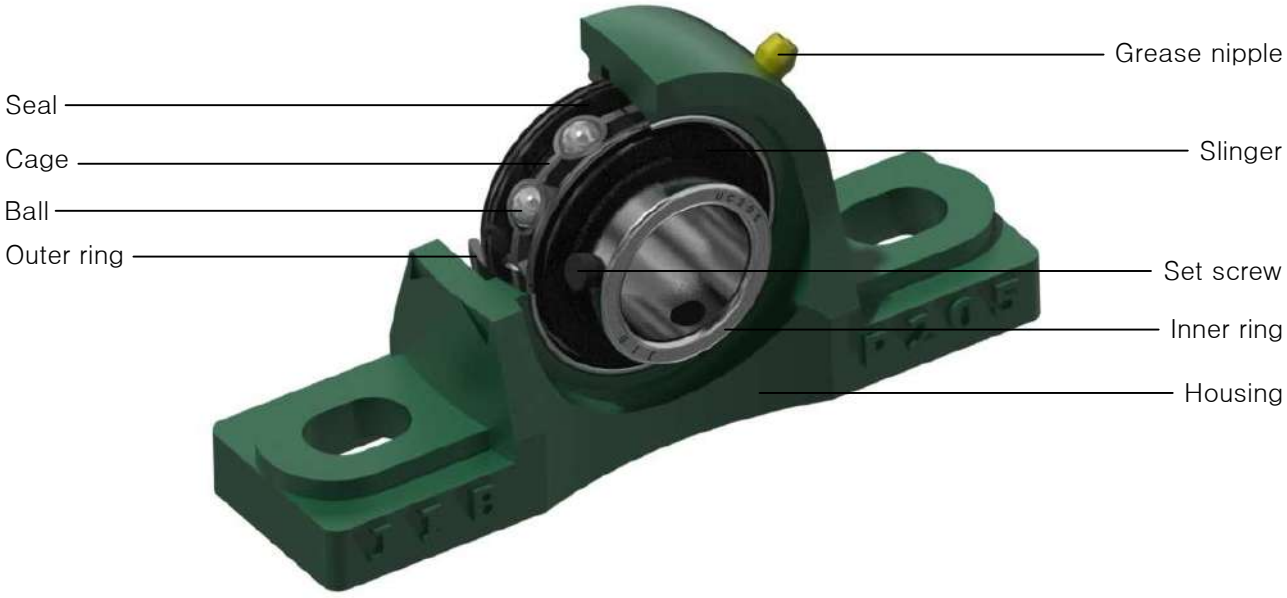
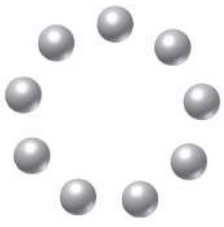
A. Technical section

1. Design and features

1.1 Design



[Fig.1.1] Design of ball bearing units

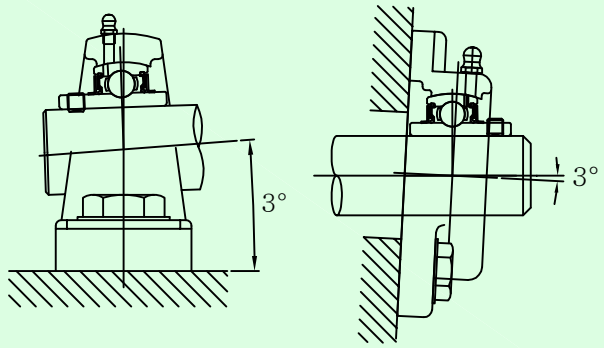
Outer ring	Inner ring	Ball
		
Cage	**Seal**	**Slinger**
		

1.2 Features

Ball bearing units are comprised of grease sealed deep groove ball bearings and housings in various forms. They are available in a wide range of applications because installation, exchange and lubrication of them are simple.

1) Self alignment

The most important feature of ball bearing units is the self-alignment which is accomplished by the spherical shape of the outer diameter of the bearing and the concave shape of the inner diameter of the housing into which they fit. It allows the bearing unit to adjust automatically for shaft deviation and reduces abnormal bearing load.



[Fig.1.2]

2) Simplicity of installation

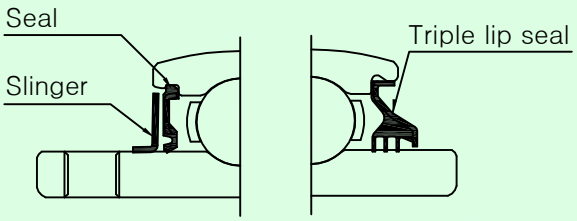
Since ball bearing units have the ability to self-align, they can be easily and firmly mounted onto the shaft with two set screws, an eccentric locking collar or an adapter sleeve.

3) Superior load carrying capacity

The internal structure of bearings is equivalent to the deep groove ball bearings of the 6200, 6300 series and has high load-carrying capacities for radial and thrust loads.

4) Excellent sealing performance and convenient maintenance

The labyrinth is achieved by attaching seal to the outer ring and attaching slinger to the inner ring. It efficiently prevents grease from leaking out of the interior of the bearing and protects entering of contaminants such as dust and moisture from outside at the same time. It is very convenient for the maintenance because bearings are prelubricated at the factory and do not require additional greasing. JIB has developed the triple lip seal and the double protection method to provide excellent protection even in the severest environment.



[Fig.1.3]

5) Compatibility

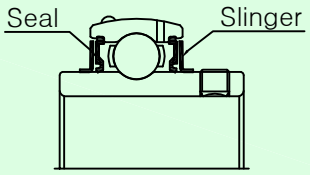
The bearing and the housing of the unit are compatible with each other therefore the bearing or the housing can be exchanged if required.

1.3 Sealing

The bearing can be quickly destroyed if contaminants enter the internal moving parts of the bearing or if the lubricating grease is allowed to leak out of the bearing. So, seals have the dual purpose of retaining the lubricant within the bearing and preventing contaminants entering to extend the bearing life. Sealing types are distinguished from non-contact seals and contact seals. Since friction does not occur in non-contact seals except for the lubricant friction, they may be used in high and maximum speed applications. Relatively speaking, contact seals are more efficient for the sealing performance in low speed applications.
Therefore, the sealing type should be carefully chosen to match the purpose and the operating condition.

1) Standard seal type(LS)

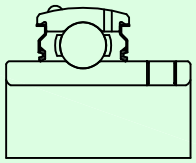
This is the most popular sealing method applied to general JIB bearings. The labyrinth is achieved by attaching seal to the outer ring and attaching slinger to the inner ring as shown in [Fig.1.4]. It efficiently prevents grease from leaking out of the interior of the bearing and prevents entering of contaminants such as dust and moisture from outside simultaneously.



[Fig.1.4] LS type

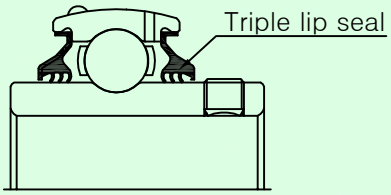
2) Simple seal type(L)

The special synthetic rubber is fixed to the stamped steel shield which is attached to the outer ring. There are low friction because the lip of the seal contacts the inner ring of the bearing with optimal tension. This type can provide the safe operation for extended periods in normal operating conditions. It is generally applied to SA, SB and SC bearings.[Fig. 1.5]


[Fig.1.5] L type

3) Triple lip seal type(L3)

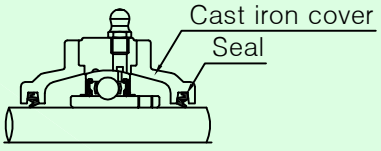
The triple lip seal type has a special seal structure made of synthetic rubber which is attached to a stamped steel shield. The combined piece is attached to the outer ring of the bearing. During operation, the spaces between the lips are filled with grease to provide lubrication and protection at the same time. This type provides an excellent protection against dust and moisture.



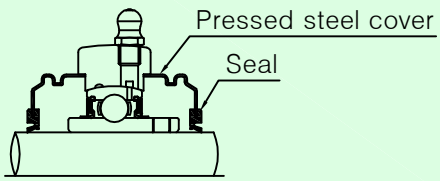
[Fig.1.6] L3 type

4) Double protection : units with cover (GC,GCD,C,CD)

The double protection method is made by attaching additional external covers to the housing. There are two types. Both are available in open and closed design. The covers adding second layer help to ensure the contaminants will not reach the bearing, so it is the best way of protection.



[Fig.1.7] Cast iron cover(GC,GCD)



[Fig.1.8] Pressed steel cover(C,CD)

2. Product overview

2.1 Type of units

Pillow block type

Pillow block type unit

UCP 2 – B01, X – B02, 3 – B03

UKP 2 – B04, X – B05, 3 – B06

- Mounting with UC, UK, HC bearing
- Multidirectional installation
- High load capacity

HCP 2 – B07

Pillow block A type unit

UCPA 2 – B08

- Mounting with UC bearing
- Installation on machine having narrow space
- Using two-bolt hole on the housing bottom surface for installation

Pillow block H type unit

UCPH 2 – B09

- Mounting with UC bearing
- Suitable for machine with high height of axis center

Pillow block L type unit

SALP 2 – B10 **SBLP** 2 – B10

- Mounting with SA, SB bearing
- Installation on machine having narrow space
- Small and light pillow block type housing


Square flange type

Square flange type unit

UCF 2 – B11, X – B12, 3 – B13 **UKF** 2 – B14, X – B15, 3 – B16

- Mounting with UC, UK, HC bearing
- Installation on the side surface of machine


Square flange S type unit

UCFS 3 – B17 **UKFS** 3 – B18

- Mounting with UC, UK bearing
- Installation on the side surface of machine
- High positional accuracy for installation (Spigot joint machining on the bottom surface)


Oval flange type

Oval flange type unit

UCFL 2 – B19, X – B20, 3 – B21 **UKFL** 2 – B22, X – B23, 3 – B24

- Mounting with UC, UK bearing
- Installation on the side surface of machine


Oval flange A type unit

UCFA 2 – B25

- Mounting with UC bearing
- Suitable for machine needed positional adjustment of axis center

Oval flange B type unit

UCFB 2 – B26

- Mounting with UC bearing
- Installation on machine having narrow space

Oval flange L type unit

SALF 2 – B27

SBLF 2 – B27

- Mounting with SA, SB bearing
- Installation on the side surface of machine
- Small and light oval flange type housing

Round flange type

Round flange type unit

UCFC 2 – B28 X – B29

UKFC 2 – B30 X – B31

- Mounting with UC, UK bearing
- Installation on the side surface of machine
- High positional accuracy for installation (Spigot joint machining on the bottom surface)

Round flange C type unit

SAFCC 2 – B32

SBFCC 2 – B33

- Mounting with SA, SB bearing
- Installation on the side surface of machine
- High positional accuracy for installation (Spigot joint machining on the bottom surface)

Take-up type

Take-up type unit

UCT 2 – B34
X – B35
3 – B36

UKT 2 – B37
X – B38
3 – B39

- Mounting with UC, UK bearing
- Suitable for machine needed tension adjustment

Other types

Cartridge type unit

UCC 2 – B40
X – B41
3 – B42

UKC 2 – B43
X – B44
3 – B45

- Mounting with UC, UK bearing
- Available to use as a floating unit (When there is expansion or contraction depending on temperature change)

Hanger type unit

UCHA 2 – B46

- Mounting with UC, HC bearing
- Parallel pipe threads hole machining on the housing mounting surface
- Hanging a unit to machine for use

Pressed steel type

Pressed steel Pillow block type unit

- Mounting with SA, SB bearing
- Pressed steel housing

SAPP 2 - B47

SBPP 2 - B47

Pressed steel Oval flange type unit

- Mounting with SA, SB bearing
- Pressed steel housing

SAPFL 2 - B48

SBPFL 2 - B48

Pressed steel Round flange type unit

- Mounting with SA, SB bearing
- Pressed steel housing

SAPF 2 - B49

SBPF 2 - B49

2.2 Type of bearings

Set screw type

(fixing with two set screws of 120°)

UC

2 - C01
X - C02
3 - C03

- Cylindrical bore bearing
- Sealing method : LS type
- Available to resupply grease

UR

2 - C04

- Cylindrical inner and outer ring
- Sealing method : LS type
- Same dynamic/static load carrying capacity with UC
- Available to use a bearing alone when mounting

SB

2 - C05

CSB

2 - C05

- Bearing with relatively narrow width than UC
- Sealing method : L type
- Same dynamic/static load carrying capacity with UC(201~212)

SER

2 - C06

- Cylindrical inner and outer ring
- Sealing method : LS type
- Same dynamic/static load carrying capacity with UC
- Available to resupply grease
- Available to use a bearing alone when mounting
- Available to mount a snap ring on the outer ring of bearing

Eccentric locking collar type

HC 2 - C07

- Cylindrical bore bearing
- Sealing method : LS type
- Same dynamic/static load carrying capacity with UC
- Available to resupply grease
- CHC type : Cylindrical outer ring

CHC 2 - C07

SA 2 - C08

- Cylindrical bore bearing
- Sealing method : L type
- Same dynamic/static load carrying capacity with UC(201~212).
- Bearing with relatively narrow width than UC
- CSA type : Cylindrical outer ring

CSA 2 - C08

Adapter type

UK 2 - C09 X - C10 3 - C11

- Tapered bore bearing
- Sealing method : LS type
- Same dynamic/static load carrying capacity with UC
- Available to resupply grease

Tight fit type

SC 2 - C12

- Cylindrical bore bearing
- Sealing method : L type
- Same dynamic/static load carrying capacity with UC(201~212)
- Identical dimensions with ball bearings of the 6200 series

2.3 Stainless series

Bearing material : Stainless(KS-STS440C)
Housing material : Stainless(KS-SSC13)

Unit

Stainless series
Pillow block type

SUCP 2 - D01

- Mounting with SUC bearing
- Multidirectional installation
- High load capacity

Stainless series
Square flange type

SUCF 2 - D02

- Mounting with SUC bearing
- Installation on the side surface of machine

Stainless series Oval flange type

SUCFL 2 – D03

- Mounting with SUC bearing
- Installation on the side surface of machine

Stainless series Take-up type

SUCT 2 – D04

- Mounting with SUC bearing
- Suitable for machine needed tension adjustment

Bearing

Stainless series Set screw type

SUC 2 – D05

- Cylindrical bore bearing
- Sealing method : LS type
- Same dynamic/static load carryin capacity with UC
- Available to resupply grease
- Identical dimensions with UC

2.4 Clean series

Bearing material : Bearing steel(KS-STB2)
Stainless(KS-STS440C)
Housing material : Zinc alloys die castings(KS-ZDC2)

Unit

Clean series
Pillow block type

- Mounting with USA, USB, USC bearing
- Bearing material : Bearing steel (KS-STB2)
- Housing plating : Zinc plating

USAP 0 - E01

USBP 0 - E01

USCP 0 - E01

Stainless clean series Pillow block type

- Mouting with MUSA, MUSB bearing
- Bearing material : Stainless (KS-STS440C)
- Housing plating : Chromium plating

MUSAP 0 - E01

MUSBP 0 - E01

Clean series Oval flange type

- Mouting with USA, USB, USC bearing
- Bearing material : Bearing steel (KS-STB2)
- Housing plating : Zinc plating

USAFL 0 - E02

USBFL 0 - E02

USCFL 0 - E02

Stainless clean series Oval flange type

- Mounting with MUSA, MUSB bearing
- Bearing material : Stainless (KS-STS440C)
- Housing plating : Chromium plating

MUSAFL 0 - E02

MUSBFL 0 - E02

Bearing

Clean/ Stainless clean series
Set screw type

USB 0 - E03 **MUSB** 0 - E03

- Cylindrical bore bearing
- Sealing method : L type
- USB material : Bearing steel(KS-STB2)
- MUSB material : Stainless(KS-STS440C)

Clean/ Stainless clean series
Eccentric locking collar type

USA 0 - E04 **MUSA** 0 - E04

- Cylindrical bore bearing
- Sealing method : L type
- USA material :Bearing steel(KS-STB2)
- MUSA material : Stainless(KS-STS440C)

Clean series
Tight fit type

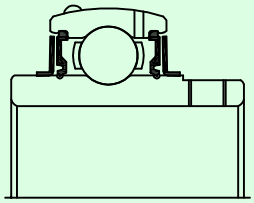
USC 0 - E05

- Cylindrical bore bearing
- Sealing method : L type

2.5 Units for special uses

1) Units for blowers(JIB Classification J5)

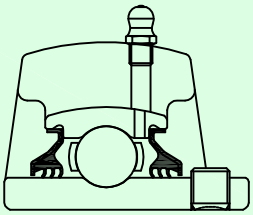
Ball bearing units for blowers must not generate large amounts of heat, vibration or noise at high rotation speed. JIB manufactures units for blowers with the best technology and design. Therefore, units for blowers made by JIB are the best products with the highest quality in surface roughness, orbital shape and rotation accuracy.



[Fig. 2.1] Units for blowers

2) Units with triple lip seal(JIB Classification L3)

It is a product that applies triple lip seal to the bearings. It is more suitable to use under extreme environmental conditions because it provides more excellent effect to prevent the entering of dust and moisture than the general seal type.



[Fig. 2.2] Units with triple lip seal

3) Units for anti-oxidation and anti-corrosion (JIB Classification M1)

This unit is suitable for anti-oxidation and anti-corrosion by coating the standard bearing with alkali black layer. UC, SA and SB bearings are generally applied, and other bearings can be applied on demand.(Product on demand)[Fig.2.3]

[Fig.2.3] Black-oxide treated bearing

4) Cold resistant and heat resistant units (JIB Classification EN1, EN2)

The operating temperature of ball bearing units depends on

① lubricating grease
② rubber material of seals
③ the radial internal clearance of the bearing

The normal operating temperature range for JIB ball bearing units is from -20℃ to 100℃. Cold resistant or heat resistant units should be used in low or high temperature environments outside the normal operating temperature range.
JIB manufactures the following standardized cold and heat resistant units shown in [Table 2.1].

[Table 2.1] Cold resistant and heat resistant units

Section		Cold resistant	Heat resistant	Clean room
JIB-Classification		EN1	EN2	EN2-C
Operating temperature range		-30°C ~ +180°C		-30°C ~ +220°C
Lubricating grease (Temperatue range)		Super lube-Synco (-43℃~232℃)		Carbaflo -Fuchs (-35℃~280℃)
Material of seal (Temperatue range)		Fluorine-FKM (-25℃~220℃)		
Sealing method		LS type		
Clear-ance	UC	CN	C4	C4
	UK	C3	C5	C5

5) Ductile iron and steel castings units (JIB Classification FCD, SC)

Strength of ductile iron and steel castings is stronger than gray cast irons. Ductile iron(GCD450) unit provides a good combination of rigidity and fracture resistance, and it is suitable for the conditions with severe vibration. Steel castings(SC450) provides the best durability in extremely difficult operating environments.

[Table 2.2] Ductile iron and steel castings

Section	Gray cast irons	Ductile iron	Steel casting
JIB Classification	-	FCD	SC
Material	KS-GC200	KS-GCD450	KS-SC450
Yielding point (N/mm²)	-	280 or more	225 or more
Tensile strength (N/mm²)	200 or more	450 or more	450 or more
Elongation(%)	-	10 or more	19 or more
Hardness(HB)	223 or less	140~210	-

3. Nomenclature

3.1 Bearing model code

The bearing model code describes the bearing type and basic dimensions, it is written in the order of the type code, the diameter code and the bore diameter code.[Table 3.1]

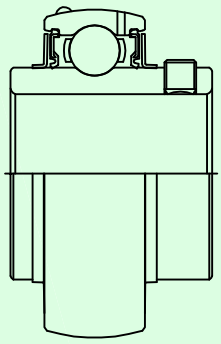
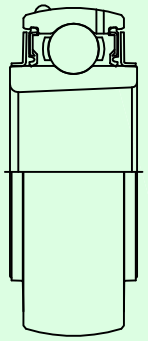
Ex.1) UC 3 08
- 08 — Bore diameter code(40 mm)
- 3 — Diameter code
- UC — Type code(Cylindrical bore)

Ex.2) SA 2 05-16 EN2
- EN2 — Heat resistant
- 05-16 — Bore diameter(1 inch)
- 2 — Diameter code
- SA — Type code(Cylindrical bore)

Ex.3) S UC 2 10
- 10 — Bore diameter code(50 mm)
- 2 — Diameter code
- UC — Type code(Cylindrical bore)
- S — Type code(Stainless series)

Ex.4) U SA 0 01
- 01 — Bore diameter code(12 mm)
- 0 — Diameter code
- SA — Type code(Cylindrical bore)
- U — Type code(Clean series)

[Table 3.1] Bore diameter code

Bearing type	Bearing diameter code	Bearing bore diameter code			
		mm		inch	
		Bore diameter code	Bore diameter	Bore diameter code	Bore diameter
 Cylindrical bore (Except UK type bearing)	0	8	8		
		00	10		
	2	01	12	01- 8	1/2
		02	15	02-10	5/8
		03	17		
		04	20	04-12	3/4
		05	25	05-14	7/8
				05-16	1
		06	30	06-18	1 1/8
		07	35	07-20	1 1/4
				07-22	1 3/8
	X	08	40	08-24	1 1/2
		09	45	09-26	1 5/8
				09-28	1 3/4
		10	50	10-32	2
		11	55	11-35	2 3/16
		12	60	12-36	2 1/4
				12-39	2 7/16
		13	65	13-40	2 1/2
		14	70	14-44	2 3/4
		15	75	15-48	3
 Tapered bore (UK type bearing)	3	16	80		
		17	85	17-52	3 1/4
		18	90	18-56	3 1/2
		19	95	19-60	3 3/4
		20	100	20-64	4
		21	105		
		22	110		
		24	120		
		26	130	26-82	5 1/8
		28	140	28-88	5 1/2

3.2 Housing model code

The housing code is written in the order of the housing type code, the diameter code and the bore diameter code of the applicable bearing.

Ex.1) P 2 08

- 08 — Bore diameter code of applicable bearing
- 2 — Diameter code
- P — Type code(Pillow type)

Ex.2) S F 2 08

- 08 — Bore diameter code of applicable bearing
- 2 — Diameter code
- F — Type code(Square flange type)
- S — Type code(Stainless series)

3.3 Ball bearing unit model code

The ball bearing unit model code comprises the bearing model code and the housing model code.[Table 3.2]

Ex.1)
UC P 2 06 EN2

- EN2 — Heat resistant
- 06 — Bore diameter code(30 mm)
- 2 — Diameter code
- P — Housing type code(Pillow type)
- UC — Bearing type code(Cylindrical bore)

Ex.2)
UK FL 3 10

- 10 — Bore diameter code(50 mm)
- 3 — Diameter code
- FL — Housing type code(Oval flange type)
- UK — Bearing type code(Tapered bore)

Ex.3)
U SA P 0 06

- 06 — Bore diameter code(30 mm)
- 0 — Diameter code
- P — Housing type code(Pillow type)
- SA — Bearing type code(Cylindrical bore)
- U — Unit type code(Clean series)

Ex.4)
MU SB FL 0 04

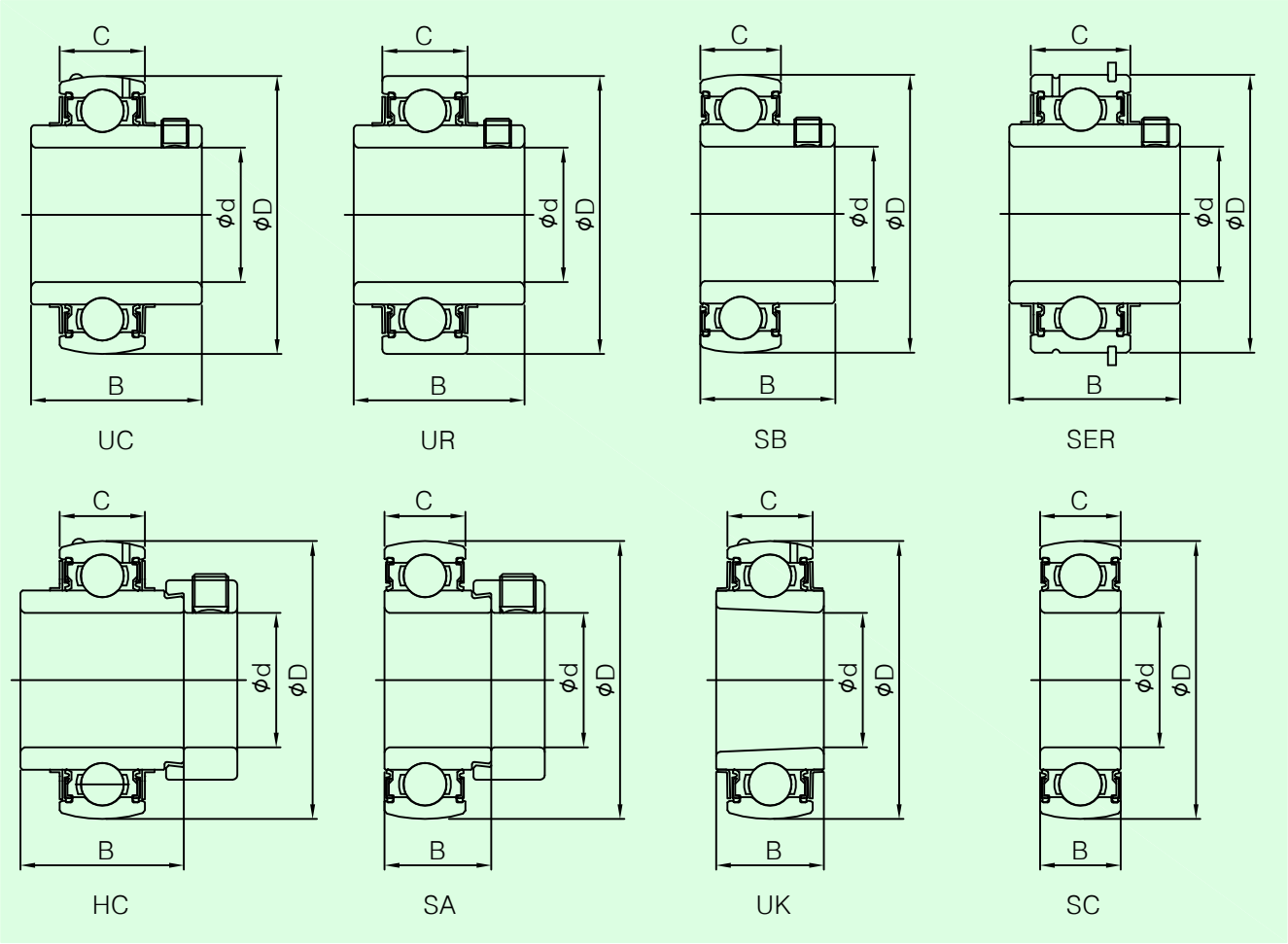
- 04 — Bore diameter code(20 mm)
- 0 — Diameter code
- FL — Housing type code(Oval flange type)
- SB — Bearing type code(Cylindrical bore)
- MU — Unit type code(Stainless clean series)

[Table 3.2] Example of ball bearing unit code

Type	Model code			Type code		Diameter code	Bore diameter code	Shaft diameter (mm)	Fixing to shaft
	Unit	Bearing	Housing	Bearing	Housing				
Pillow (P)	UCP205	UC205	P205	UC	P	2	05	25	Set screws
	HCP208	HC208	P208	HC	P	2	08	40	Self-locking collar
	UKP206	UK206	P206	UK	P	2	06	30	Adapter
Square flange (F)	UCF308	UC308	F308	UC	F	3	08	40	Set screws
Square flange S (FS)	UCFS307	UC307	FS307	UC	FS	3	07	35	Set screws
Oval flange (FL)	SAFL204	SA204	FL204	SA	FL	2	04	20	Self-locking collar
Round flange (FC)	UCFCX17	UCX17	FCX17	UC	FC	X	17	85	Set screws
Take-up (T)	UCT212	UC212	T212	UC	T	2	12	60	Set screws
	UKT310	UK310	T310	UK	T	3	10	50	Adapter
Cartridge (C)	UCC215	UC215	C215	UC	C	2	15	75	Set screws

4. Accuracy

Tolerances of JIB ball bearing units conform to KS B ISO 9628(bearing) and KS B ISO 3228(housing).



4.1 Tolerances of bearings

[Table 4.1] Tolerances of inner ring

(unit : 0.001mm)

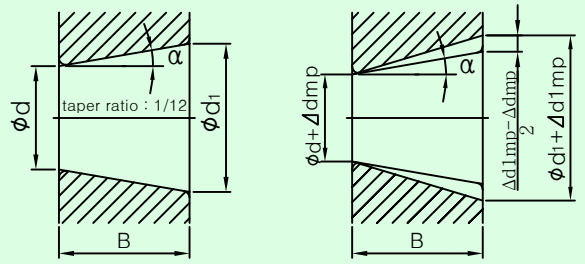
Nominal bore diameter, φd(mm)		Cylindrical bore diameter						Width (ΔBs)		Kia	
		UC, UR, SB, SER, HC, SA, SUC, USA, USB			SC, USC						
		Δdmp		Vdp	Δdmp		Vdp			others	SC
over	incl.	high	low	max	high	low	max	high	low	max	
–	10	+15	0	10	0	−8	6	0	−120	10	6
10	18	+15	0	10	0	−8	6	0	−120	15	7
18	31.75	+18	0	12	0	−10	8	0	−120	18	8
31.75	50.80	+21	0	14	0	−12	9	0	−120	20	10
50.80	80	+24	0	16	0	−15	11	0	−150	25	10
80	120	+28	0	19				0	−200	30	
120	180	+33	0	22				0	−250	35	

Remark :
Δdmp : Single plane mean bore diameter deviation,
ΔBs : Single inner ring width deviation,
Vdp : Single radial plane bore diameter variation,
Kia : Radial runout of assembled bearing inner ring

[Table 4.2] Tolerances of tapered bore diameter

(unit : 0.001mm)

Nominal bore diameter, φd(mm)		Δdmp		Δd1mp−Δdmp	
over	incl.	high	low	high	low
18	30	+33	0	+21	0
30	50	+39	0	+25	0
50	80	+46	0	+30	0
80	120	+54	0	+35	0
120	180	+63	0	+40	0



Theoretical tapered bore

Tapered bore with actual mean diameters and their deviations

Remark :

① Taper tolerance is defined as tolerance of ($\Delta d_1 mp - \Delta dmp$)

② d_1 : Standard diameter at theoretical large end of tapered bore $d_1 = d + 1/12B$

③ Δdmp : Deviation of tolerance of average bore diameter in plane at theoretical small end of tapered bore

④ Δd_1 mp : Deviation of tolerance of average bore diameter in plane at theoretical large end of tapered bore

⑤ B : Norminal inner ring width

⑥ α : 1/12 of taper angle of tapered bore

α = 2°23'9.4" = 2.38594° = 0.041643 rad

[Table 4.3] Tolerances of bore diameter of bearings for blowers(J5)

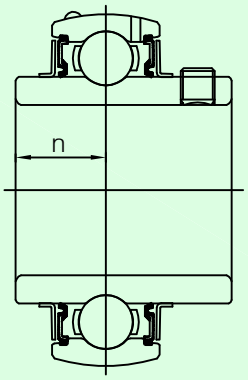
(unit : 0.001mm)

Nominal bore diameter φd(mm)		Δdmp	
over	incl.	high	low
10	18	+13	0
18	30	+13	0
30	50	+13	0
50	80	+15	0
80	120	+18	0
120	180	+23	0

[Table 4.4] Tolerances of n

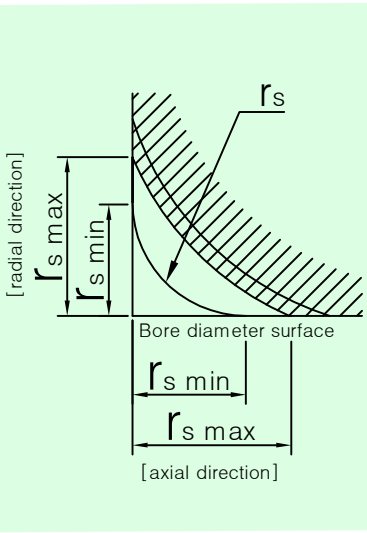
(unit : 0.001mm)

Nominal bore diameter, φd(mm)		n	
over	incl.	high	low
	50	+200	−200
50	80	+250	−250
80	120	+300	−300
120		+350	−350



[Table 4.5] Permissible value of filet dimensions (Inner ring of bearing with cylindrical bore)

(unit : mm)



$r_{s\ min}$	$r_{s\ max}$	
	Radial direction	Axial direction
0.3	0.6	1
0.6	1	2
1	1.5	3
1.1	2	3.5
1.5	2.3	4
2	3	4.5
2.1	4	6.5
2.5	3.8	6
3	5	8
4	6.5	9
5	8	10

Remark :

The exact shape of the chamfer surface is not specified, its contour in an axial plane should not be allowed to project beyond the imaginary circular arc, of radius "$r_{s\ min}$", tangential to the ring surface and the bore or outside cylindrical surface of the ring.

[Table 4.6] Tolerances of outer ring

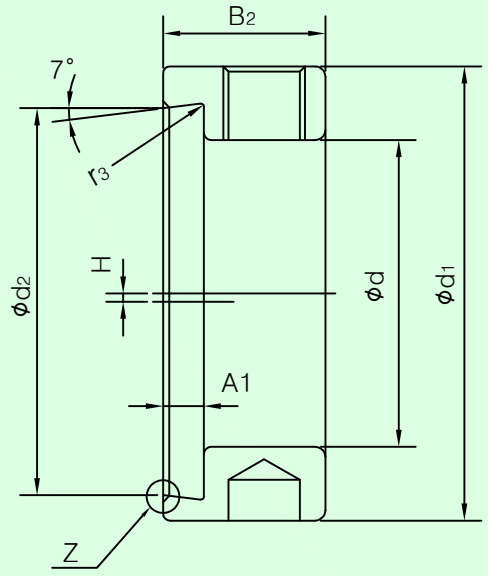
(unit : 0.001mm)

Nominal outer diameter, φD(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
250	315	0	−35	60

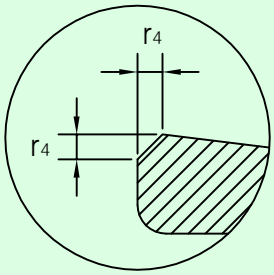
Remark :
① ΔDmp : Single plane mean outer diameter deviation
② Kea : Radial runout of assembled bearing outer ring

4.2 Tolerances of eccentric locking collars

Tolerances of JIB eccentric locking collars conform to KS B 9628, please refer to the table as follows.



Detail of "Z"



[Table 4.7] Eccentric locking collars

(unit : mm)

Collar code	Size							
	φd	φd1 max.	φd2	B2	H	A1	r3 max.	r4 min.
ES201	12	28.6	22.1	13.5	0.8	4	0.3	0.8
ES202	15	28.6	22.1	13.5	0.8	4	0.3	0.8
ES203	17	28.6	22.1	13.5	0.8	4	0.3	0.8
E201	12	33.3	26.6	13.5	0.8	4	0.3	0.8
E202	15	33.3	26.6	13.5	0.8	4	0.3	0.8
E203	17	33.3	26.6	13.5	0.8	4	0.3	0.8
E204	20	33.3	26.6	13.5	0.8	4	0.3	0.8
E205	25	38.1	31.6	13.5	0.8	4	0.3	0.8
E206	30	44.5	37.9	15.9	0.8	4	0.3	0.8
E207	35	55.6	44.7	17.5	0.8	4	0.3	0.8
E208	40	60.3	49.4	18.3	1.6	4.8	0.3	1.2
E209	45	63.5	54.4	18.3	1.6	4.8	0.3	1.2
E210	50	69.9	60.0	18.3	1.6	4.8	0.3	1.2
E211	55	76.2	66.9	20.7	1.6	4.8	0.3	1.2
E212	60	84.2	73.5	22.3	1.6	6.4	0.3	1.6
E000	10	17	13.5	8.5	0.5	2	0.3	0.3
E001	12	19	15.9	8.5	0.5	2	0.3	0.3
E002	15	22	18.5	8.5	0.5	2	0.3	0.3
E003	17	25	21	9.5	0.5	2.5	0.3	0.4
E004	20	30	25	11	0.8	3	0.3	0.4
E005	25	36	30.5	12	0.8	4	0.3	0.4
E006	30	42	36	12	0.8	4	0.3	0.4

Remark :
Collar code ES201~203 is for SA bearing.

[Table 4.8] Tolerances of eccentric locking collar

(unit : mm)

Nominal bore diameter,φd		φd		φd2		H	
over	Incl.	high	low	high	low	high	low
10	36.512	+0.250	+0.025	+0.3	0	+0.1	−0.1
36.512	55.562	+0.300	+0.025	+0.4	0	+0.1	−0.1
55.562	61.912	+0.300	+0.025	+0.4	0	+0.1	−0.1

4.3 Radial internal clearance

The radial internal clearance of bearings has a strong influence on the operating condition of the bearing such as bearing life, noise, vibration, and heat generation. Therefore, it must be taken into consideration when selecting a bearing. The radial internal clearance of JIB bearings conforms to KS B ISO 5753(Rolling bearing-Radial internal clearance).

The normal clearance indicated CN applies to JIB bearings with cylindrical bore in general. The radial clearance can be adjusted to C3 if the bearing has a tapered inner ring bore considering expansion of the inner ring because it is pressed onto the tapered sleeve. The clearance C2 reduces noise and vibration in high speed application, so it is used in units for blowers.

[Table 4.9] Radial internal clearance of bearings

(unit:0.001mm)

Nominal bore diameter, φd(mm)		Internal clearance									
		C2		CN(normal)		C3		C4		C5	
over	incl.	min	max	min	max	min	max	min	max	min	max
6	10	0	7	2	13	8	23	14	29	20	37
10	18	0	9	3	18	11	25	18	33	25	45
18	24	0	10	5	20	13	28	20	36	28	48
24	30	1	11	5	20	13	28	23	41	30	53
30	40	1	11	6	20	15	33	28	46	40	64
40	50	1	11	6	23	18	36	30	51	45	73
50	65	1	15	8	28	23	43	38	61	55	90
65	80	1	15	10	30	25	51	46	71	65	105
80	100	1	18	12	36	30	58	53	84	75	120
100	120	2	20	15	41	36	66	61	97	90	140
120	140	2	23	18	48	41	81	71	114	105	160

Remark :

① Values of radial internal clearance are measured at temperature of 20℃ without any external forces acting on any parts of the the bearing.

② [Table 4.10] is correction rate which revises the radial clearance increasing rate by measured load.

[Table 4.10] Correction of clearance

(unit:0.001mm)

Nominal bore diameter, φd(mm)		Measured load		Correction of clearance				
over	incl.	N	Kgf	C2	CN(normal)	C3	C4	C5
2.5	18	24.5	2.5	3~4	4	4	4	4
18	50	49	5	4~5	5	6	6	6
50	280	147	15	6~8	8	9	9	9

4.4 Tolerances of housings

Tolerance classes of spherical bore diameter of the housing are shown as below [Table 4.11]. The standard tolerance of JIB ball bearing units is a class H7.

[Table 4.11] Tolerance classes of spherical bore diameter of housings

(unit : 0.001mm)

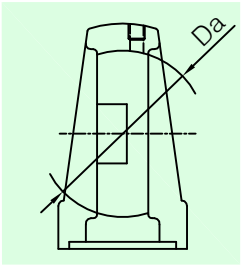
Nominal spherical bore diameter, Da(mm)		H7		J7		K7	
		ΔDamp		ΔDamp		ΔDamp	
over	incl.	high	low	high	low	high	low
30	50	+25	0	+14	−11	+7	−18
50	80	+30	0	+18	−12	+9	−21
80	120	+35	0	+22	−13	+10	−25
120	180	+40	0	+26	−14	+12	−28
180	250	+46	0	+30	−16	+13	−33
250	315	+52	0	+36	−16	+16	−36

Remark :

ΔDamp is calculated by the equation where,

ΔDamp = (Da max+ Da min)/2

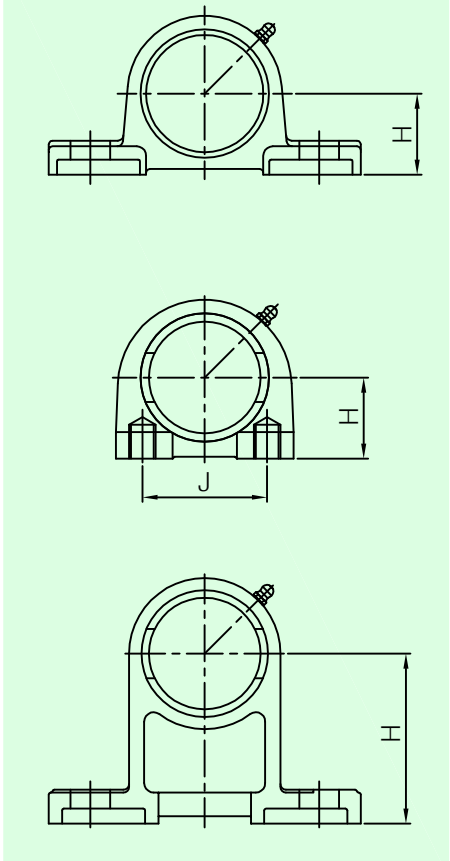
Da max and Da min is maximum and minimum measurement of Da.



[Table 4.12] Tolerances of pillow block type housings(P, PA, LP, PH)

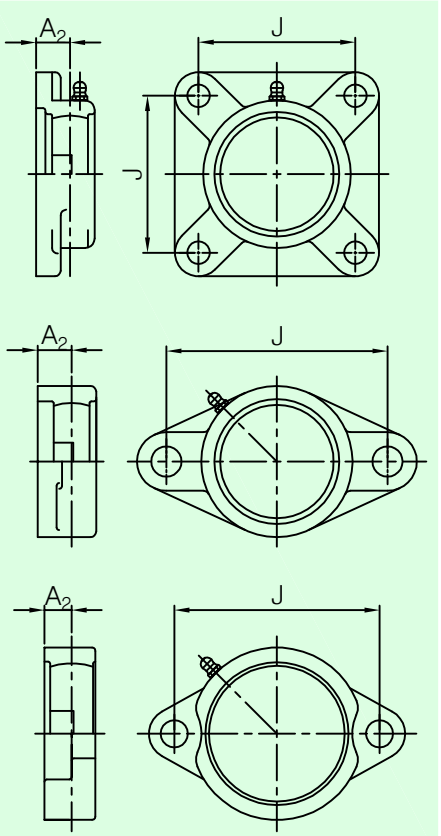
(unit : 0.001mm)

Housing code			H	J(PA)
203			±150	±500
204				
205	305	X05		
206	306	X06		
207	307	X07		
208	308	X08		
209	309	X09		
210	310	X10		
211	311	X11	±200	±700
212	312	X12		
213	313	X13		
214	314	X14		
215	315	X15		
216	316	X16		
217	317	X17		
218	318	X18		
	319	–	±300	
	320	X20		
	321			
	322			
	324			
	326			
	328			



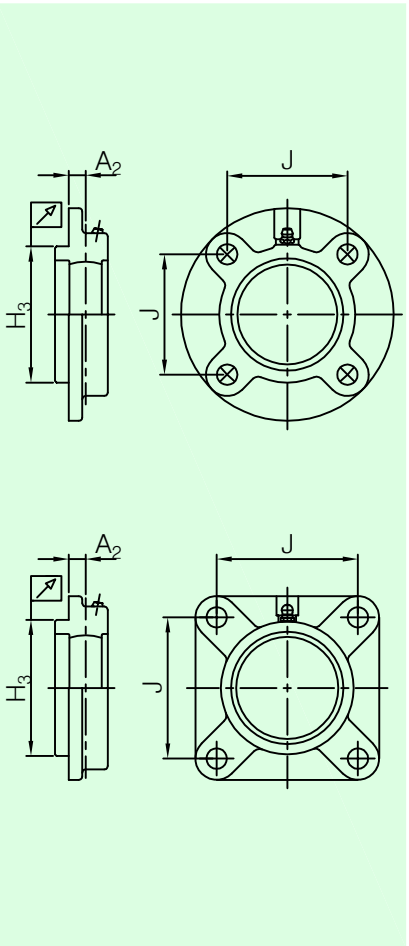
[Table 4.13] Tolerances of flange type housings(F, FL, LF) (unit : 0.001mm)

Housing code			A_2	J
203			±500	±700
204				
205	305	X05		
206	306	X06		
207	307	X07		
208	308	X08		
209	309	X09		
210	310	X10		
211	311	X11	±800	±1000
212	312	X12		
213	313	X13		
214	314	X14		
215	315	X15		
216	316	X16		
217	317	X17		
218	318	X18		
	319	–		
	320	X20		
	321			
	322			
	324			
	326			
	328			



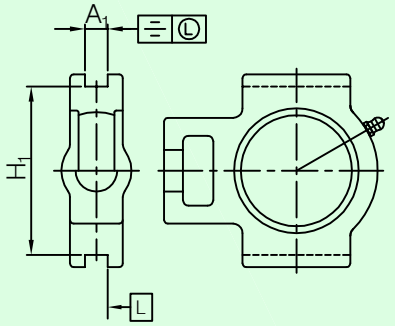
[Table 4.14] Tolerances of spigot joint flange type housings(FC, FS) (unit : 0.001mm)

Housing code			J	A2	Radial runout of spigot joint (Max)	H3					
						FC2		FCX		FS3	
						high	low	high	low	high	low
204			±700	±500	200	0	−46	0	−46	0	−46
205	305	X05									
206	306	X06									
207	307	X07				0	−54	0	−54	0	−54
208	308	X08									
209	309	X09									
210	310	X10									
211	311	X11			300	0	−63	0	−63	0	−63
212	312	X12									
213	313	X13									
214	314	X14									
215	315	X15									
216	316	X16									
217	317	X17									
218	318	X18	±1000	±800			−72	0	−72	0	−72
	319	–			400						
	320	X20									
	321									0	−81
	322										
	324										
	326									0	−89
	328										



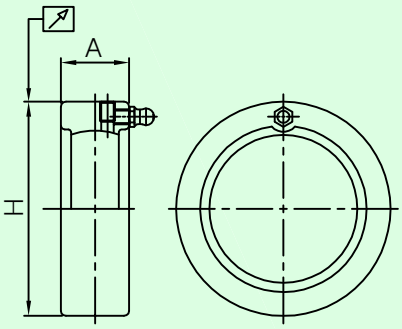
[Table 4.15] Tolerances of take-up type housings(T) (unit : 0.001mm)

Housing code			A_1		H_1		Parallelism of guide rail (Max)
			high	low	high	low	
204							
205	305	X05					
206	306	X06					
207	307	X07	+200	0	0	−500	500
208	308	X08					
209	309	X09					
210	310	X10					
211	311	X11					
212	312	X12					
213	313	X13					
214	314	X14					
215	315	X15					600
216	316	X16					
217	317	X17					
218	318	X18	+300	0	0	−800	
	319	–					
	320	X20					
	321						700
	322						
	324						
	326						800
	328						



[Table 4.16] Tolerances of cartridge type housings(C) (unit : 0.001mm)

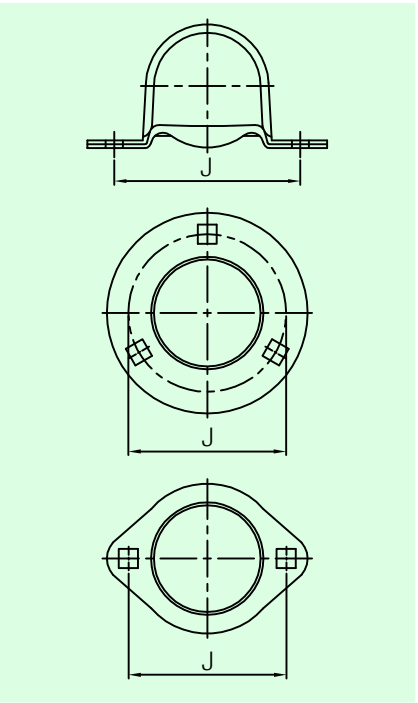
Housing code			H						A	Outer diameter runout(Max)
			2		3		X			
			high	low	high	low	high	low		
204			0	−30					±200	200
205	305	X05			0	−35	0	−35		
206	306	X06	0	−35						
207	307	X07								
208	308	X08								
209	309	X09			0	−40	0	−40		
210	310	X10								
211	311	X11	0	−40						300
212	312	X12								
213	313	X13								
214	314	X14								
215	315	X15			0	−46			±300	
216	316	X16								
217	317	X17								
218	318	X18								
	319	–								
	320	X20			0	−52				400
	321									
	322									
	324				0	−57				
	326									
	328									



[Table 4.17] Tolerances of pillow (pressed steel) type housings(PP)

(unit : 0.001mm)

Housing code	J
PP 203 PP 204 PP 205 PP 206 PP 207	±400



[Table 4.18] Tolerances of flange (pressed steel) type housings(PF,PFL)

(unit : 0.001mm)

Housing code		J
PF	PFL	
203 204 205 206 207		±400

[Table 4.19] Other standard dimensional tolerances not specified

Standard number	Standard description
KS B ISO 2768-1 (KS B 0412)	General tolerances-Part 1 Tolerances for linear and angular dimensions without individual tolerance indications
KS B 0250	Casting - System of dimensional tolerances and machining allowances
KS B 0413	General dimensional tolerances for parts formed by press working from sheet metal

Remark :

Other standard dimensional tolerances of cutting, casting or press working portions not specified in this catalog follow KS standards.

5. Materials

5.1 Bearing materials

The bearing material for the orbital races and the ball must meet the following requirements.

① Force against rolling fatigue and repeated stress

② High strength with high hardness number, elasticity and yield point

③ Good internal wear resistance

④ High resistance against shock loads

In general, the bearings is made of the high carbon chrome bearing steel. Among the various high carbon chromium steels, the most widely used one is the KS-STB2 which is also used by JIB producing bearings.

[Table 5.1] Chemical composition of high carbon chromium bearing steel(KS D 3525)

Code		STB2	STB3
Chemical composition(%)	C	0.95~1.10	0.95~1.10
	Si	0.15~0.35	0.40~0.70
	Mn	under 0.50	0.09~1.15
	P	under 0.025	under 0.025
	S	under 0.025	under 0.025
	Cr	1.30~1.60	0.90~1.20
	Mo	under 0.08	under 0.08

Remark :

KS STB2 and STB3 is equivalent to JIS SUJ2 and SUJ3 respectively

[Table 5.2] Chemical composition of stainless steel (KS D 3706)

Code		Stainless steel for bearing	
Chemical composition(%)	C	0.95~1.20	Martensite stainless steel (equivalent to KS-STS440C)
	Si	under 1.00	
	Mn	under 1.00	
	P	under 0.040	
	S	under 0.030	
	Cr	16.00~18.00	
	Mo	under 0.75	

5.2 Housing materials

Gray cast irons, cold rolled steel sheet, zinc alloys die castings are used for housing material. Ductile iron, steel castings and stainless steel are used according to the purpose. The most common material is Class 3(GC200) of Gray cast irons from KS D 4301, it is widely used for machine parts because the vibration absorbing capacity is greater than other materials.

[Table 5.3] Mechanical properties of housing material

Type code	Designation	Yielding point (N/mm²)	Tensile strength (N/mm²)	Elong-ation (%)	Hard-ness (HB)
GC200	Gray cast irons		200 or more		223 or less
GCD450	Ductile iron	280 or more	450 or more	10 or more	140~210
SC450	Steel castings	225 or more	450 or more	19 or more	
SPCC	Cold rolled steel sheet		270 or more	34 or more	
SSC13	Stainless steel	185	440	30 or more	183 or less
ZDC 2	Zinc alloys die castings		285	10	82

[Table 5.4] Chemical composition of housing material

Type code	Chemical composition (%)							
	C	Si	Mn	P	S	Ni	Cr	Mg
GC200	3.2 ~3.8	1.4 ~2.2	0.4 ~0.6	0.5 or less	0.1 or less			
GCD450	2.5 or more	2.7 or less	0.4 or less	0.08 or less	0.02 or less			0.09 or less
SC450	0.35 or less		0.5~2.00	0.04 or less	0.04 or less			
SPCC	0.12 or less		0.50 or less	0.04 or less	0.045 or less			
SSC13	0.08 or less	2.00 or less	2.00 or less	0.04 or less	0.04 or less	8.00 ~ 11.00	18.00 ~ 21.00	

[Table 5.5] Chemical composition of zinc alloys die castings(KS D 6005)

Type code	Chemical composition (%)							
	Al	Cu	Mg	Fe	Zn	Pb	Cd	Sn
ZDC2	3.5 ~4.3	0.25 under	0.25 ~0.06	0.1 under	re-mains	0.005 under	0.004 under	0.003 under

5.3 Materials of other components

The materials for components of ball bearing units are listed in [Table 5.6].

[Table 5.6] Materials of other components

Component	Material	Type code	Standard code
Ball (rolling element)	High carbon chro-mium bearing steel	STB2	KS D 3525
	Stainless steel	STS440C	KS D 3692
Cage	Cold rolled steel sheet	SPCC	KS D 3512
	Stainless steel	STS304	KS D 3706
Rivet	Steels for cold heading and cold extruding	ML15	
	Stainless steel	STS304	KS D 3706
Seal (standard type)	Cold rolled steel sheet Nitrile rubber	SPCC NBR	KS D 3512
	Stainless steel Nitrile rubber	STS304 NBR	KS D 3706
Seal (EN1,EN2,EN2-C형)	Cold rolled steel sheet Fluorocarbon rubber	SPCC FKM	KS D 3512
	Stainless steel Fluorocarbon rubber	STS304 FKM	KS D 3706
Slinger	Cold rolled steel sheet	SPCC	KS D 3512
	Stainless steel	STS304	KS D 3706
Set screw	Chrome molybdenum steel	SCM435	KS D 3867
	Stainless steel	STS304	KS D 3692
Cast iron cover	Gray cast irons	GC200	KS D 4301
Pressed steel cover	Cold rolled steel sheet	SPCC	KS D 3512
Eccentric locking collar	Carbon steel for machine structural use	SM20C	KS D 3752
	Stainless steel	STS304	KS D 3692
Adapter sleeve	Low-alloyed steels for machine structural use	SS275 (SS400)	KS D 3503
Lock nut	Low-alloyed steels for machine structural use	SS275 (SS400)	KS D 3503
Lock washer	Cold rolled steel sheet	SPCC	KS D 3512
Grease nipple	Brass bar High density polyethylene	C3604BE HDPE	KS D 5101
	Stainless steel	STS304	KS D 3692

6. Life

6.1 Rating life

Even if bearings are used in normal conditions, they are unable to be used due to flaking after some period.

Flaking phenomenon commonly occurs because of the following reasons.

① Increasing of vibration

② Grease deterioration

③ Repeatedly applied stress on raceway or rolling elements

④ Declining accuracy by general wear

The total number of rotations or duration until the bearing becomes unavailable is called bearing life.

The basic rating life defines as the total number of rotations or total rotation time, which 90% of a group of bearings under identical rotating conditions can be operated without flaking by rolling fatigue.

6.2 Calculation of basic rating life

Bearing life depends on the following factors such as its own load capacities, actual applied loads and other factors for instance, operating temperature etc. The formula of basic rating life is shown as below.

1) Calculation of basic rating life I

$$L_{10} = \left(\frac{Cr}{Pr}\right)^3 \quad (10^6 \text{ revolution}) \quad \text{[Formula 6.1]}$$

Where,

L_{10} : Basic rating life(10^6 revolution)

Cr : Basic dynamic load rating(kgf, N)

Pr : Dynamic equivalent radial load

(kgf, N : see[Formula 7.2])

2) Calculation of basic rating life II

If the speed is constant, it is often preferable to calculate the life expressed in operating hour, using the following equation.

$$L_{10\,h} = L_{10} \times \left(\frac{10^6}{60 \cdot n}\right) \quad \text{(hour)} \quad \text{[Formula 6.2]}$$

$$L_{10h} = \left(\frac{Cr}{Pr}\right)^3 \times \left(\frac{10^6}{60 \cdot n}\right) \quad \text{(hour)} \quad \text{[Formula 6.3]}$$

Where,

L_{10h} : Basic rating life(hr)

n : Rotation speed(rpm)

3) Calculation of basic rating life III (simple formula)

The approximate value of the basic rating life can be calculated by using the life factor(fh) and the speed factor(fn) in [Table 6.1].

$$L_{10h} = 500\ fh^3 \quad \text{[Formula 6.4]}$$

$$fh = \left(\frac{Cr}{Pr}\right) \times fn \quad \text{[Formula 6.5]}$$

$$fn = \left(\frac{10^6}{500 \times 60n}\right)^{1/3} = \left(\frac{33.3}{n}\right)^{1/3} \quad \text{[Formula 6.6]}$$

Where,

fh : Life factor

fn : Speed factor

[Table 6.1] Speed factor(f_n) / Rating life(L_{10},L_{10h}) and Life factor(f_h)

n (rpm)	f_n	n (rpm)	f_n	Cr/P or fh	L_{10} (10^6rev)	L_{10h} (h)	Cr/P or fh	L_{10} (10^6rev)	L_{10h} (h)
10	1.49	110	0.672	0.70	0.34	170	2.85	23.1	11600
11	1.45	120	0.652	0.75	0.42	210	2.90	24.4	12200
12	1.41	130	0.635	0.80	0.51	255	2.95	25.7	12800
13	1.37	140	0.620	0.85	0.61	305	3.00	27.0	13500
14	1.34	150	0.606	0.90	0.73	365	3.05	28.4	14200
15	1.30	160	0.593	0.95	0.86	430	3.10	29.8	14900
16	1.28	170	0.581	1.00	1.00	500	3.15	31.2	15600
17	1.25	180	0.570	1.05	1.16	580	3.20	32.8	16400
18	1.23	190	0.560	1.10	1.33	665	3.25	34.3	17200
19	1.21	200	0.550	1.15	1.52	760	3.30	35.9	18000
20	1.19	220	0.533	1.20	1.73	865	3.35	37.6	18800
21	1.17	240	0.518	1.25	1.95	975	3.40	39.3	19600
22	1.15	260	0.504	1.30	2.20	1100	3.45	41.1	20600
23	1.13	280	0.492	1.35	2.46	1230	3.50	42.9	21400
24	1.12	300	0.481	1.40	2.74	1370	3.55	44.7	22400
25	1.10	320	0.471	1.45	3.05	1520	3.60	46.6	23300
26	1.09	340	0.461	1.50	3.38	1690	3.65	48.6	24300
27	1.07	360	0.452	1.55	3.72	1860	3.70	50.6	25300
28	1.06	380	0.444	1.60	4.10	2050	3.75	52.7	26400
29	1.05	400	0.437	1.65	4.49	2240	3.80	54.9	27400
30	1.04	420	0.430	1.70	4.91	2460	3.85	57.1	28600
31	1.02	440	0.423	1.75	5.36	2680	3.90	59.3	29600
32	1.01	460	0.417	1.80	5.83	2920	3.95	61.6	30800
33.3	1.00	480	0.411	1.85	6.33	3160	4.00	64.0	32000
34	0.993	500	0.405	1.90	6.86	3430	4.05	66.4	33200
36	0.975	550	0.393	1.95	7.41	3700	4.10	68.9	34400
38	0.957	600	0.382	2.00	8.00	4000	4.15	71.5	35800
40	0.941	650	0.372	2.05	8.62	4310	4.20	74.1	37000
42	0.926	700	0.362	2.10	9.26	4630	4.25	76.8	38400
44	0.912	750	0.354	2.15	9.94	4970	4.30	79.5	39800
46	0.898	800	0.347	2.20	10.6	5300	4.35	82.3	41200
48	0.886	850	0.340	2.25	11.4	5700	4.40	85.2	42600
50	0.874	900	0.333	2.30	12.2	6100	4.45	88.1	44000
55	0.846	950	0.327	2.35	13.0	6500	4.50	91.1	45600
60	0.822	1000	0.322	2.40	13.8	6900	4.55	94.2	47100
65	0.800	2000	0.255	2.45	14.7	7350	4.60	97.3	48600
70	0.871	4000	0.203	2.50	15.6	7800	4.65	100	50000
75	0.763	6000	0.177	2.55	16.6	8300	4.70	104	52000
80	0.747	8000	0.161	2.60	17.6	8800	4.75	107	53500
85	0.732	10000	0.149	2.65	18.6	9300	4.80	110	55000
90	0.718	20000	0.119	2.70	19.7	9850	4.85	114	57000
95	0.705	40000	0.094	2.75	20.8	10400	4.90	118	59000
100	0.693	80000	0.075	2.80	22.0	11000	4.95	121	60500

6.3 Adjusted rating life

The basic rating life(L_{10}) of bearing is calculated according to equation mentioned in [Formula 6.2]. According to purpose, however, when it needs more than 90% reliability, it can be calculated by using the reliability factor(a_1) from the following equation.

$$L_n = a_1 * L_{10} \quad (10^6 \text{ revolution}) \quad \text{[Formula 6.7]}$$

The basic rating life is computed, assuming that normal bearing materials are used, and that normal conditions (mounting, lubrication, vibration are good and without extreme load or operating temperature) are provided. But, if the bearing made of special materials or made for special conditions adjusted rating life(L_{10a}) is needed. The Following equation using the life adjustment factors of both material factor(a_2) and operating condition factor (a_3) can be applied.

$$L_{10a} = a_2 * a_3 * L_{10} \ (10^6 \text{ revolution}) \quad \text{[Formula 6.8]}$$

The adjusted rating life(L_{na}) for the bearing requiring all the adjustments can be obtained using the following equation.

$$L_{na} = a_1 * a_2 * a_3 * L_{10} \ (10^6 \text{ revolution}) \quad \text{[Formula 6.9]}$$

However, if bearing dimensions are selected by using the adjusted rating life(L_{na}) larger than L_{10}, the variables other than life, such as permissible deformation and hardness of shaft or housing, etc, have to be taken into consideration.

1) Reliability factor(a_1)

The adjusted rating life for a reliability is calculated in accordance with [Formula 6.7], the value of reliability factor(a_1) is in [Table 6.2] as follows.

[Table 6.2] Reliability factor(a_1)

Reliability, %	90	95	96	97	98	99
Ln	L10	L5	L4	L3	L2	L1
a_1	1.00	0.62	0.53	0.44	0.33	0.21

2) Bearing material factor(a_2)

The bearing life is affected by the material quality and manufacturing process. In this case, the bearing life is adjusted using bearing material factor(a_2). JIB ball bearings are based on standard material and process, therefore, the adjustment factor for material is treated as (a_2=1). However, for bearings made of special materials to extend fatigue life, the bearing material factor is treated as (a_2 >1).

3) Operating condition factor(a_3)

The operating condition factor(a_3) is used to adjust the bearing life influenced by operating conditions, specially, fatigue life by lubricating condition. It can be performed with (a_3=1) under normal condition where there is no incline between inner and outer ring and where rolling elements are sufficiently separated from raceway by lubricant.
In the following cases, the operating condition factor is treated as a_3<1.

- -When kinematic viscosity of lubricant is too low.
  For ball bearings, below 13㎟/s(1㎟/s=1cSt)
- -When rotation speed is too slow.
- -When operating temperature of bearing is too high.
- -When any foreign material or moisture is mixed with lubricant.
- -When load distribution is abnormal.

[Table 6.3] Operating condition factor a_3 based on operating temperatures

Operation temperatures(°C)	150	200	250	300
a_3	1	0.73	0.42	0.22

6.4 Operating machines and required life

When selecting a bearing, it is not economical to choose a bearing with unnecessarily longer life than required. Because it usually means a bigger than needed. In other words, a bearing life should not be a sole factor in selecting the bearing, strength, rigidity, and dimension of shaft to be considered. Please refer to the following tables to find out fatigue life factor and required life time.

[Table 6.4] Fatigue life factor(fh) and applications

Operating condition and period	Fatigue life factor(fh)				
	~ 2	2 ~ 3	3 ~ 4	4 ~ 6	6 ~
Used occasionally or only for short period	- Small motors for home appliances like vacuum cleaners and washing machines - Hand power tools	- Agricultural equipment			
Used occasionally or only for short period but reliability is important		- Motors for home heaters and air conditioner - Construction equipment	- Conveyors - Elevators cable sheaves		
Used intermittently for relatively long period	- Rolling mill roll necks	- Small motors - Deck cranes - General cargo cranes - Pinion stands - Passenger cars	- Machine tools - Factory motors - Vibrating screens - Crushers	- Crane sheaves - Compressors - Specialized transmissions	
Used for more than 8 hours a day		- Escalator	- Centrifuge separators - Air conditioning equipment - Blowers - Woodworking machines - Axle boxes on railway rolling stock	- Locomotive axle boxes - Press flywheels - Railway traction motors - Mine hoists	- Paper making machines
Used continuously and high reliability is important					- Waterworks pumps - Electric power stations - Mine draining pumps

[Table 6.5] Required life time(L_{10h}) for applications

Operating condition and period	Required life time(L_{10h})				
	~ 4,000	4,000 ~ 12,000	12,000 ~ 30,000	30,000 ~ 60,000	60,000 ~
Used occasionally or only for short period	- Small motors for home appliances like vacuum cleaners and washing machines - Hand power tools	- Agricultural equipment			
Used occasionally or only for short period but reliability is important	- Medical instrument	- Motors for home heaters and air conditioner - Construction equipment - Elevators - Conveyors	- Crane sheaves		
Used intermittently for relatively long period	- Passenger cars - Cart(two sheeled)	- Small motors - Deck cranes - General cargo cranes - Pinion stands - Passenger cars	- Machine tools - Factory motors - Crushers	- Specialized transmissions - Rubber, plastic calender rolls	
Used for more than 8 hours a day		- Escalator - Rolling mill conveyor rollers - Centrifuge separators	- Air conditioning equipment - Compressors - Pumps - Large motors	- Locomotive axle boxes - Press flywheels - Mine hoists	- Paper making machines - Propulsion system for ships
Used continuously and high reliability is important					- Waterworks pumps - Electric power stations - Mine draining pumps

7. Loads rating of bearing

7.1 Dynamic load rating

1) Basic dynamic load rating(Cr)

The basic dynamic load rating is an expression of the load capacity of a bearing based on a constant load which the bearing can sustain for one million revolutions(the basic life rating). For radial bearings this rating applies to pure radial loads, and for thrust bearings it refers to pure axial loads. JIB bearings conform to ISO 281-1 and KS B 2019 to calculate the basic dynamic load rating(Cr). It is shown in the dimension tables.

◈ Adjusted basic load rating due to temperature

If the bearing is operated at high temperature above 120℃, the load carrying capacity of the bearing is reduced because the degree of hardness of it is dropped. In turn, the rating life is decreased and thus the basic dynamic load rating should be adjusted and calculated in high temperature conditions.

$$C_t = f_t \times C_r \qquad \text{[Formula 7.1]}$$

Where,

C_t : Basic dynamic load rating at adjusted operating temperature(kgf, N)

f_t : Temperature coefficient[Table 7.1]

C_r : Basic dynamic load rating(kgf, N)

[Table 7.1] Temperature coefficient(f_t)

Bearing temperature(°C)	125	150	175	200	250
Temperature coefficient (f_t)	1	1	0.95	0.90	0.75

2) Dynamic equivalent radial load(Pr)

The load applied to a bearing is usually combined with radial and axial loads. In this case, the actual load acting on a bearing can not be directly applied to the bearing life calculating equation. Therefore it is necessary to convert the radial and axial loads into a single radial load value to calculate the bearing life. This load is called as the dynamic equivalent radial load. It is shown as below.

$$Pr = XFr + YFa \qquad \text{[Formula 7.2]}$$

Where,

Pr : Dynamic equivalent radial load(kgf, N)

Fr : Radial load(kgf, N)

Fa : Axial load(kgf, N)

X : Radial load factor

Y : Axial load factor

[Table 7.2] The values of radial load factor(X) and axial load factor(Y)

$\frac{Fa}{Cor}$	e	Fa/Fr ≦ e		Fa/Fr > e	
		X	Y	X	Y
0.014	0.19				2.30
0.025	0.22				1.99
0.056	0.26				1.71
0.084	0.28				1.55
0.110	0.30	1	0	0.56	1.45
0.170	0.34				1.31
0.280	0.38				1.15
0.420	0.42				1.04
0.560	0.44				1.00

When selecting a bearing, Pr should not exceed 0.5 x Cr. Normally load condition of bearing is Pr/Cr ≤ 0.15, minimum load condition of bearing is Pr/Cr ≥ 0.05.

3) Calculation of loads applied to bearings

To compute the values of loads applied to a bearing, the weight of rolling element, transmission power by gear or belt and load generated by the machines have to be calculated. Some of these loads are theoretically calculable, but the others are difficult to obtain. So, various coefficients empirically obtained have to be utilized.

(1) Load factor(f_w)

The actual load(f_w) on a bearing is usually greater than the calculated value because of vibration and shock. Therefore, it is determined by multiplying the calculated load with load factors(f_w).

$$F_r = F_{rc} \cdot f_w \qquad \text{[Formula 7.3]}$$

Where,

F_r : Actual applied load(kgf, N)

F_{rc} : Theoretically calculated load(kgf, N)

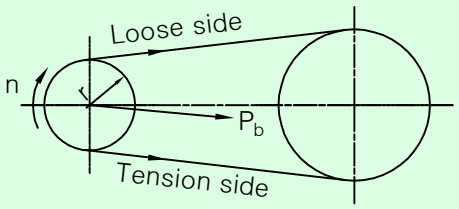
f_w : Load factor(see Table 7.3)

[Table 7.3] Load factor(f_w)

Load condition	f_w	Applications
Smooth operation with no shocks	1.0~1.2	Electrical machines, compressed air machines
Normal operation	1.2~1.5	Power transmission, metallic machines, building machines, moving machines
Operation with frequent vibrations and shocks	1.5~3.0	Construction machines, rolling machines, agricultural machines

(2) Loads applied to belt or chain

Load applied to pulley or sprocket, when power is transmitted by belt or chain, is as follows.



[Fig.7.1] Forces applied to belt or chain

$$M = 97400\ H/n \quad \text{(kgf.cm)} \qquad \text{[Formula 7.4]}$$

$$P_b = M/r \quad \text{(kgf)} \qquad \text{[Formula 7.5]}$$

where,

M : Torque applied to pulley or sprocket(kgf·cm)

H : Transmission power(kW)

P_b : Force applied to chain or belt(kgf)

n : Rotation speed(rpm)

r : Effective radius of pulley or sprocket(cm)

In the case of a belt transmission, belt factor(f_b) corresponding to initial tension should be multiplied as following equation.

$$F_r = f_b \cdot P_b \quad \text{(kgf)} \qquad \text{[Formula 7.6]}$$

[Table 7.4] Belt, chain factor(f_b)

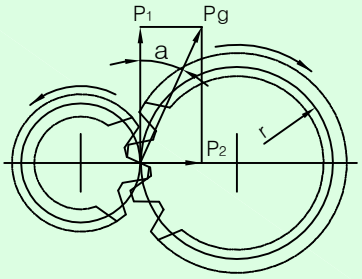
Belt, chain type	f_b
gear belt	1.3 ~ 2.0
V belt	2.0 ~ 2.5
plane belt (with tension pulley)	2.5 ~ 3.0
silk belt	4.0 ~ 5.0
chain	1.2 ~ 1.5

Here, if vibration or impact is accompanied during operation, multiply by the load factor(f_w) and the belt factor(f_b) to obtain the actual load as following equation.

$$F_r = f_w \cdot f_b \cdot P_b \quad \text{(kgf)} \qquad \text{[Formula 7.7]}$$

(3) Load applied to gear

The calculation methods for gear load vary depending on the type of gears. The following method applies for the simplest type of spur gear.



[Fig.7.2] Resultant forces applied to gear

$M = 97400\ H/n$ (kgf.cm) [Formula 7.8]

$P_1 = M/r$ (kgf) [Formula 7.9]

$P_2 = P_1 \cdot \tan\alpha$ (kgf) [Formula 7.10]

$Pg = \sqrt{P_1^2 + P_2^2} = \frac{P_1}{\cos\alpha}$ (kgf) [Formula 7.11]

where,

M : Torque applied to gear(kgf.cm)

H : Transmission power(kW)

P_1 : Tangential force of gear(kgf)

P_2 : Radial force of gear(kgf)

P_g : Resultant force applied to gear(kgf)

n : Rotation speed(rpm)

r : Pitch circle radius of driven gear(cm)

The actual applied load on the bearing must be calculated by multiplying the gear factor(f_g), listed in [Table 7.5]. The gear factor is based on the teeth angle and the overall quality of the gear.

$F_r = f_g \cdot P_g$ (kgf) [Formula 7.12]

[Table 7.5] Gear factor(f_g)

Gear type	f_g
Precision gear (Both pitch and dimension error are less than 0.02mm)	1.0 ~ 1.1
Regular gear (Both pitch and dimension error are from 0.02 to 0.1mm)	1.1 ~ 1.3

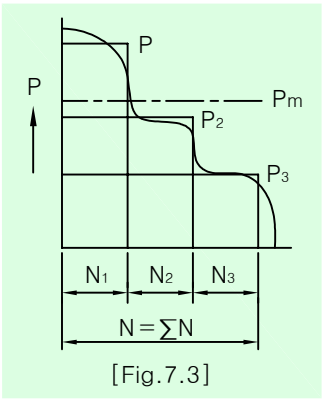
Here, if vibration or impact is accompanied during operation, multiply by the load factor(fw) and the gear factor(fg) to obtain the actual load as following equation.

$F_r = f_w \cdot f_g \cdot P_g$ (kgf) [Formula 7.13]

(4) Average dynamic equivalent radial load of fluctuating load

Loads applied to a bearing usually fluctuate in various ways. In this case, bearing life can be calculated by mean load.

(a) Fluctuating stepped load



[Fig.7.3]

$$P_m = \sqrt[3]{\frac{P_1^3 n_1 t_1 + P_2^3 n_2 t_2 + \cdots\cdots + P_n^3 n_n t_n}{n_1 t_1 + n_2 t_2 + \cdots\cdots + n_n t_n}}$$ [Formula 7.14]

where,

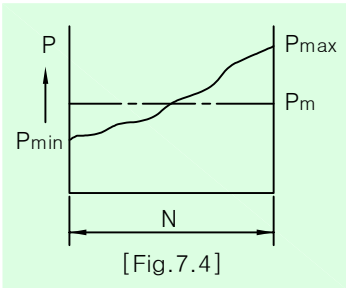
P_m : Average dynamic equivalent radial load of fluctuating load(kgf, N)

Pn : Fluctuating load(kgf, N)

n_n : Rotation speed(rpm)

t_n : Operating time(hr)

(b) Linear fluctuating load



[Fig.7.4]

$$P_m \fallingdotseq \frac{P_{min} + 2P_{max}}{3}$$ [Formula 7.15]

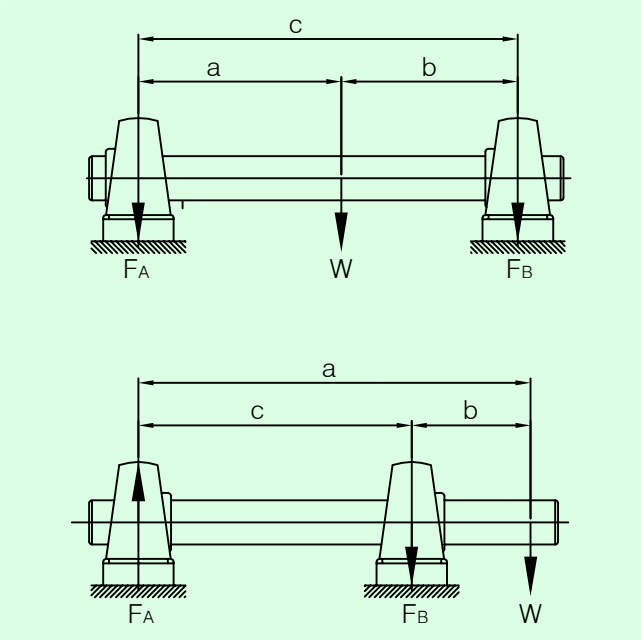
where,

P_{min} : Minimum fluctuating load(kgf, N)

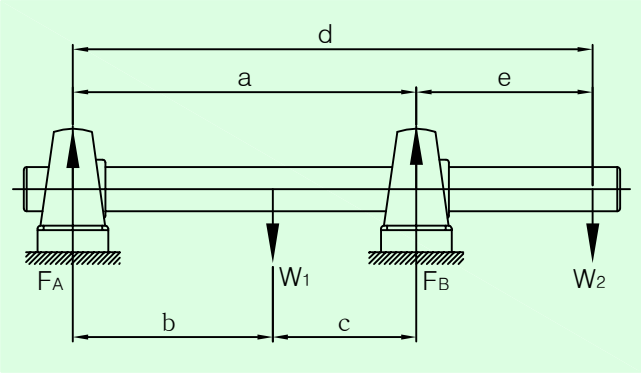
P_{max} : Maximum fluctuating load(kgf, N)

4) Distribution of radial load

The load applied to the shaft is allocated to the bearings supporting the shaft. In the case of below drawings, radial loads applied to the bearing A and B are calculated by the following formula.



$$F_A = b/c \cdot W$$
$$F_B = a/c \cdot W \qquad \text{[Formula 7.16]}$$



$$F_A = c/a \cdot W_1 - e/a \cdot W_2$$
$$F_B = b/a \cdot W_1 + d/a \cdot W_2 \qquad \text{[Formula 7.17]}$$

7.2 Static load rating

1) Basic static load rating(Cor)

When an excessive load or impact load is applied to a bearing, permanent deformation on the contact surface between raceway and rolling element occurs. Basic static load rating(Cor) is the static load which responds to the calculated contact stress, at the contact center between the raceway and rolling elements which receive the maximum load.

- Maximum contact stress of radial ball bearing
  : 4200(Mpa)

The total permanent deformation of rolling element and raceway caused by this contact stress will be approximately 1/10,000 of diameter of rolling element.

Basic static load rating(Cor) of JIB ball bearings is determined in accordance with ISO 76 and KS B 2020, it is shown in the dimension tables.

2) Static equivalent radial load(Po)

When the bearing is stationary or under extremely low speed, it is necessary to take into account the static equivalent radial load, which is the counter part of the dynamic equivalent radial load of a rotating bearing. In this case, the following formula is used.

$$Po = Xo \cdot Fr + Yo \cdot Fa \quad (kgf) \qquad \text{[Formula 7.18]}$$
$$Po = Fr \quad (kgf) \qquad \text{[Formula 7.19]}$$

where,

Po : Static equivalent radial load(kgf, N)

Fr : Actual radial load(kgf, N)

Fa : Actual thrust load(kgf, N)

Xo : Static radial factor

Yo : Static thrust factor

The most commonly used values of deep groove ball bearings are Xo=0.6 and Yo=0.5 .

3) Safety factor(fs)

The safety factor(fs) is calculated to check whether or not a bearing with appropriate static load rating(Cor) is selected.

$$fs = \frac{Cor}{Po} \quad (kgf) \qquad [Formula\ 7.20]$$

where,

fs : Safety factor

Po : Static equivalent radial load(kgf, N)

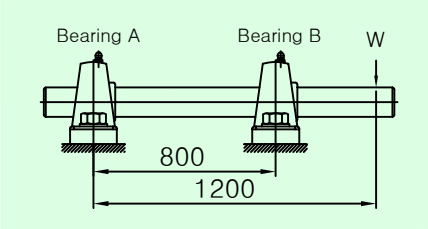
Cor : Basic static load rating(kgf, N)

[Table 7.6] Safety factor(fs)

Operating condition	fs
High rotation accuracy is required	1.5 ~ 2.5
Operation with vibration and shock	1.2 ~ 2.5
Normal operation	1.0 ~ 1.2
Normal operation with small amount of permanent deformity	0.3 ~ 1.0

7.3 Calculation examples in selecting bearing

Ex.1) As shown in the drawing, radial load W=500kgf is applied to the shaft. What are the applied loads on bearing A and B?

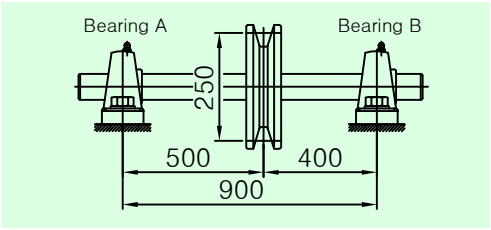


Sol.) W_A = (1200-800)/800 x 500 = (-)250(kgf)

Remark : Negative load is the upward(↑) load

W_B = 1200/800 x 500 = 750(kgf)

Ex.2) As shown in the drawing, the shaft is rotated by a V-belt with transmission power H=7.5KW, shaft speed n=500 rpm, and pulley pitch diameter d=250mm, what are the applied loads on bearing A and B?



Sol.) Rotating moment M = 97400 x H/n

= 97400 x 7.5/500 = 1461(kg.cm)

Force applied to belt or chain P_b for the V-belt is,

P_b = M/r = 1461/12.5 = 116.8(kgf)

Assuming that the belt factor f_b = 1.2

and the load factor fw = 2.5,

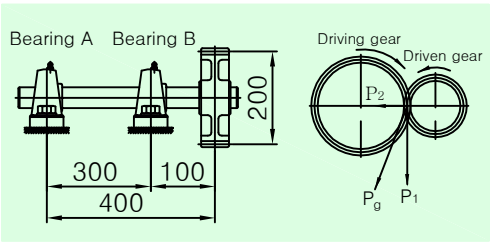
the actual applied load F on the shaft is

F = 2.5 x 1.2 x 116.8 = 350.4(kgf)

Therefore, the actual applied loads on bearing A and B are W_A = 400/900 x 350.4 = 155.7(kgf)

W_B = 500/900 x 350.4 = 194.7(kgf)

Ex.3) As shown in the drawing, the shaft is rotated by a spur gear with transmission power H=5.5KW, shaft speed n=500rpm, pitch diameter d=200mm and teeth pressure angle α=14°30'. What are the applied loads on bearing A and B?



Sol.) Rotating moment M on the gear is

M = 97400 x H/n = 97400 x 5.5/500 = 1071.4(kg.cm)

Tangential force P_1 is

P_1 = M/r = 1071.4/10 = 107.1(kgf)

Perpendicular force P_2 is

$P_2 = P_1 \times \tan a$ = 107.1 x tan 14°30' = 27.7(kgf)

Therefore, total applied load P_g on the gear is

$$P_g = \sqrt{P_1^2 + P_2^2} = \sqrt{107.1^2 + 27.7^2} = 110.6(kgf)$$

Assuming that the gear factor f_g=1.2 and the load factor fw=1.3, the actual applied load F on the shaft is

F= 1.2 x 1.3 x 110.6 = 172.5(kg)

Therefore, the applied loads on bearing A and B are

W_A = 100/300 x 172.5 = 57.5(kg)

W_B = 400/300 x 172.5 = 230(kg)

Ex.4) What is the bearing life when UC313 is operated with radial load Fr=700Kgf, thrust load Fa=480Kgf and shaft speed n=1,200rpm? Assume ideal operating conditions.

[Refer to page C03] UC 313

UC 313	Cr	Cor
	9270kgf	5980kgf

[Table 7.7] Radial factors (X) and thrust factor (Y)

Fa/Cor	e	Fa/Fr ≦ e		Fa/Fr > e	
		X	Y	X	Y
0.084	0.28	1	0	0.56	1.55

Sol.) Fa/Cor = 480/5980 ≒ 0.08 ▶ e ≒ 0.28

Fa/Fr = 480/700 ≒ 0.68 ▶ 0.68 > 0.28

Radial factor X = 0.56

Thrust factor Y = 1.55

The applied equivalent radial load is Pr = XFr + YFa

Pr = 0.56 x 700 + 1.55 x 480 = 1136(kgf)

$$L_{10h} = \left(\frac{Cr}{Pr}\right)^3 x \left(\frac{10^6}{60 \cdot n}\right) = \left(\frac{9270}{1136}\right)^3 x \left(\frac{10^6}{60 \times 1200}\right)$$

= 7546(hr)

Ex.5) Which bearing should be selected when the operation life time should be greater than 6000hours at shaft speed of n=1200rpm and radial load of Fr = 500kgf?

Sol.) The life time factor of fh ≒ 2.29 can be determined from the bearing calculated life time table for L_{10h} = 6000. The speed factor fn ≒ 0.3 is determined from shaft speed n = 1200(rpm).

Since the ratio C/P can be used to calculate,

Cr = fh/fn x Pr = 2.29/0.3 x 500 = 3816(kgf)

Unit diameter 211 or 308 can be selected with basic static load numbers of 4330 and 4070(kgf).

Ex.6) Which bearing should be selected when the ambient temperature is 150°C and axis to axis distance is 1200mm? The shaft material used is ϕ45 mild steel(SM20C material).

Sol.) First, select the heat resistant bearing that could be used at 150°C. Next, calculate the thermal shaft expansion at the temperature.

$\Delta\ell = \ell_0 \times \alpha(t - t_0)$

Here, ℓ_0 = Axial distance at room temperature(mm)

α = Coefficient of linear expansion

(SM20C=11.7x10^{-6} /°C)

t_0 = Normal temperature(assume 20°C)

t_1 = Ambient temperature during operation

$\Delta\ell$ = 1200 x 11.7 x 10^{-6} x (150-20) = 1.825(mm)

The expansion is 1.825mm. There, refer to chapter 9.3 for installation of heat resistant bearing. The life time should be calculated with basic static load determined from the temperature factor(ft) in [Table 7.1].

Ex.7) Is it possible to guarantee 2 years bearing life when UC207 bearing unit is used 8 hours a day with radial load of 200kgf and shaft speed of 3200rpm?

Sol.) In the example, the maximum speed for high speed and load operation is 3800(rpm). The required guaranteed life time is 8 x 365 x 2=5760 hours. The calculated life time can be determined from the life time table with fn = (33.3/n)$^{1/3}$

fn ≒ 0.206,

Basic static load for UC207 Cor = 2570(kgf)

fh = fn x (Cr/Pr) = 0.206 x (2570/200) ≒ 2.7

L_{10h} = 500 x fh^3 = 500 x 2.7^3 ≒ 9841(hour)

Therefore, 2 years operation is guaranteed.

Ex.8) Which bearing should be selected when the radial load is 1000kgf, the speed is n=12rpm, the safety factor is fs=2.0 and operating life time required is 8000 hours?

Sol.) Lh = 500 · fh^3 ▶ fh = $(8000/500)^{1/3}$ = 2.52

fn = $(33.3/n)^{1/3}$ = $(33.3/12)^{1/3}$ = 1.4

here, fh=(Cr/Pr) x fn

therefore, Cr = Pr x fh/fn = 1000 x 2.52/1.4

= 1800(kgf)

Since UC200 series has Cr=3510(kgf), select UC210 series with Cor=2320(kgf).

8. Selection of units

8.1 Outline of selection

Ball bearing units are available in many types and specifications. To choose the most suitable unit for your application, many factors must be considered such as the structure of the machinery, the operating conditions and economics because the bearing life depends on the proper selection. Procedures for choosing the proper ball bearing unit are shown in [Table 8.1].

[Table 8.1] Procedures for the selection of proper ball bearing units

Procedures of selection	Items to be examined	Operating conditions to be considered	Reference
1. Selection of model	– Pillow type – Flange type – Take-up type – Hanger type	– Structure of machinery – Mounting space – Mounting dimensions	– Product overview(A04)
2. Selection of bore dia. and diameter code	– Bearing bore dia. : 8~140mm – Diameter code : 0 , 2 , X , 3	– Rating life of bearings required – Load applied to bearings – Rotating speed	– Life(A28) – Load rating of bearing(A31) – Maximum rotation speed (A38)
3. Selection against environment	– L3 type – Cover type – Clean series – Stainless steel series – High-speed	– Dust, water leak – Moisture, chemicals – Rotating speed	– Sealing(A03) – Product overview(A04) – Maximum rotation speed (A38)
4. Selection against temperature	– Heat resistant type – Cold resistant type – Measures against expansion and contraction of shaft – Grease lubrication	– Bearing temperature	– Units for special uses(A16) – Installation and use(A40) – Grease lubrication(A45)
5. Selection of locking mechanism	– Set screw – Adapter – Eccectric locking collar	– Rotating speed – Load conditions – Handling	– Installation to the shaft(A41)
6. Selection of shaft	– Dimensional tolerance – Use of shouldered shaft – Provision of set screw for shaft – Measures against expansion and contraction of shaft	– The structure of the machine – Mounting space – Mounting relationship dimension	– Installation and use(A40)
7. Selection of strength of housing	– Cast iron – Cast steel – Steel plate	– Load conditions, load directions – Presence of impact	– Housing materials(A27)
8. Selection of lubrication	– Lubricating type – Non-lubricating type – Centralized lubricating type – Greasing interval	– Environment, importance of machine – Bearing temperature – Grease life	– Installation and use (A41) – Grease lubrication(A45)
9. Selection of maintenance and inspection	– Periodic inspection – Grease lubrication	– Environment, importance of machine – Bearing temperature – Grease life	– Installation and use (A41) – Grease lubrication (A45)

8.2 Maximum rotation speed

The bearing can be destroyed in excessive high speed operation because of the increase of heat generated by the friction between rolling elements and orbital raceway of rings or the agitate resistance of grease. The maximum rotation speed of bearings must, therefore, be considered to use bearings safely for a long time. Additionally, the increase of heat caused by the contact pressure of seals should also be considered because the standard type of JIB ball bearing units has seals and slingers. [Table 8.2] shows the maximum rotation speed of JIB standard type.

[Table 8.2] Maximum rotation speed of bearings

(Unit:rpm)

Bearing code	Speed	Bearing code	Speed	Bearing code	Speed
UC201~204	6000				
UC205	5300	UCX05	4500	UC305	4800
UC206	4500	UCX06	3800	UC306	4000
UC207	3800	UCX07	3400	UC307	3600
UC208	3400	UCX08	3200	UC308	3200
UC209	3200	UCX09	2900	UC309	2800
UC210	2900	UCX10	2600	UC310	2500
UC211	2600	UCX11	2400	UC311	2400
UC212	2400	UCX12	2300	UC312	2200
UC213	2300	UCX13	2200	UC313	2000
UC214	2200	UCX14	2000	UC314	1900
UC215	2000	UCX15	1800	UC315	1700
UC216	1800	UCX16	1700	UC316	1600
UC217	1700	UCX17	1600	UC317	1500
UC218	1600	UCX18	1500	UC318	1400
		UCX20	1300	UC319	1350
				UC320	1300
				UC321	1200
				UC322	1150
				UC324	1100
				UC326	1000
				UC328	900

Remark :

1) For bearings with triple lip seal, the maximum speed is about 75% of values listed in the table.

2) For bearings with additional external cover, the maximum speed is about 80% of the values listed in the table.

3) It applies when bearing operating temperature is under 100°C.

4) It applies when maximum load applied to a bearing is $Pr/Cr \leq 0.15$ and minimum load applied to a bearing is $Pr/Cr \geq 0.05$.

5) It applies when "$dmp \times n \leq 30 \times 10^4$ considering features and life of grease JIB uses.

Pitch circle diameter : $dmp=(D+d)/2$, Rotation speed : n, Lubrication constant : 30×10^4

8.3 Relational table between load and rotation speed

In the table below [Table 8.3], the load and the speed for each ball bearing type are outlined and summarized for your reference based on 500 hours, theoretical rating life, of JIB unit ball bearings.

Refer to [Formula 6.1], [Formula 6.3]

$$L_{10} = \left(\frac{Cr}{Pr}\right)^3 \quad (10^6 \text{ revolution}) \quad \text{[Formula 6.1]} \qquad L_{10h} = \left(\frac{Cr}{Pr}\right)^3 \times \left(\frac{10^6}{60 \cdot n}\right) \quad (\text{hour}) \quad \text{[Formula 6.3]}$$

[Table 8.3] Relational table between load and rotation speed(200, X00 type)

Bearing code							Rotation speed(rpm) and load(kgf)													
UC2	UK2	UCX	SER2	HC2	SA2	SB2	33⅓	50	100	250	500	750	1000	1200	1500	2000	2400	3600	5000	rpm
–	–	–	–	–	~203	~203	960	840	670	490	390	340	310	290	270	250	230	200	180	
204	–	–	~204	204	204	204	1280	1120	890	650	520	450	410	390	360	330	310	270	240	
205	205	–	205	205	205	205	1400	1220	970	720	570	500	450	420	390	360	340	290	260	
206	206	X05	206	206	206	206	1950	1700	1350	1000	790	690	630	590	550	500	470	410	–	
207	207	X06	207	207	207	207	2570	2250	1780	1310	1040	910	830	780	720	660	620	540	–	
208	208	X07	208	208	208	208	2910	2540	2020	1490	1180	1030	940	880	820	740	700	–	–	
209	209	X08	209	209	209	209	3200	2800	2220	1630	1300	1130	1030	970	900	820	770	–	–	
210	210	X09	210	210	210	210	3150	3070	2430	1790	1420	1240	1130	1060	990	900	840	–	–	
211	211	X10	211	211	211	211	4330	3780	3000	2210	1760	1530	1390	1310	1220	1110	1040	–	–	load (kg)
212	212	X11	212	212	212	212	5240	4580	3630	2680	2120	1860	1690	1590	1470	1340	–	–	–	
213	213	X12	–	–	–	–	5720	5000	3970	2920	2320	2030	1840	1730	1610	1460	–	–	–	
214	–	X13	–	–	–	–	6220	5430	4310	3180	2520	2200	2000	1880	1750	1590	–	–	–	
215	215	X14	–	–	–	–	6740	5890	4670	3440	2730	2390	2170	2040	1890	1720	–	–	–	
216	216	X15	–	–	–	–	7260	6340	5030	3710	2940	2570	2340	2200	2040	–	–	–	–	
217	217	X16	–	–	–	–	8390	7330	5820	4290	3400	2970	2700	2540	2360	–	–	–	–	
218	218	X17	–	–	–	–	9600	8390	6660	4900	3890	3400	3090	2910	2700	–	–	–	–	
–	–	X18	–	–	–	–	10900	9520	7560	5560	4420	3860	3500	3300	3060	–	–	–	–	
–	–	X20	–	–	–	–	13300	11600	9220	6780	5390	4710	4280	4030	–	–	–	–	–	

[Table 8.4] Relational table between load and rotation speed(300 type)

Bearing code		Rotation speed(rpm) and load(kgf)												
UC3	UK3	33⅓	50	100	250	500	750	1000	1200	1500	2000	2400	3600	5000	rpm
305	305	2100	1830	1460	1070	850	740	680	640	590	540	500	440	–	
306	306	2660	2320	1840	1360	1080	940	860	810	750	680	640	560	–	
307	307	3330	2910	2310	1700	1350	1180	1070	1010	940	850	800	700	–	
308	308	4070	3560	2820	2080	1650	1440	1310	1230	1140	1040	980	–	–	
309	309	3890	4270	3390	2500	1980	1730	1570	1480	1370	1250	1180	–	–	
310	310	6200	5420	4300	3170	2510	2200	2000	1880	1740	1580	1490	–	–	
311	311	7160	6250	4960	3660	2900	2540	2300	2170	2010	1830	1720	–	–	
312	312	8180	7150	5670	4180	3320	2900	2630	2480	2300	2090	1970	–	–	
313	313	9270	8100	6430	4740	3760	3280	2980	2810	2610	2370	–	–	–	
314	–	10400	9090	7210	5310	4220	3680	3350	3150	2920	–	–	–	–	load (kg)
315	315	11300	9870	7830	5770	4580	4000	3640	3420	3180	–	–	–	–	
316	316	12300	10750	8530	6280	4990	4360	3960	3730	3460	–	–	–	–	
317	317	13300	11620	9220	6790	5390	4710	4280	4030	–	–	–	–	–	
318	318	14300	12490	9920	7310	5800	5070	4600	4330	–	–	–	–	–	
319	319	15300	13370	10610	7820	6200	5420	4920	4630	–	–	–	–	–	
320	320	17300	15110	12000	8840	7010	6130	5570	–	–	–	–	–	–	
321	–	18400	16070	12760	9400	7460	6520	5920	–	–	–	–	–	–	
322	322	20500	17190	14210	10470	8310	7260	6600	–	–	–	–	–	–	
324	324	20700	18080	14350	10580	8390	7330	–	–	–	–	–	–	–	
326	326	22900	20000	15880	11700	9290	8110	–	–	–	–	–	–	–	
328	328	25300	22100	17540	12930	10260	8960	–	–	–	–	–	–	–	

9. Installation and use

9.1 Selection of shaft

The proper selection of a shaft is very important for optimal performance of ball bearing units.

① Tolerances in [Table 9.1] should be used for cylindrical bore type bearings which are mounted onto the shaft with set screws. The tolerance class h8 and h7 are applied to normal conditions, h6 and j6 to relatively high speed applications.
② Tolerances in [Table 9.1] can also be used as the basis for tapered bore type bearings. Since the mounting onto the shaft is firmly secured with a nut, using the tolerance class h9 in [Table 9.2] is also permissible.
③ Tolerances in [Table 9.3] should be used for high load and impact load conditions to prevent loosening bolts caused by vibrations.
④ Tolerances in [Table 9.4] should be used for blowers and high-speed bearings. In this case, precision in bearing and shaft is required.

[Table 9.1] Tolerances of shaft for cylindrical bore type bearings with set screws

Shaft outside diameter (mm)		Tolerance (0.001mm)			
		dn≤60000	dn≤100000	dn≤120000	dn>120000
over	incl.	h8	h7	h6	j6
10	18	0~ -27	0~ -18	0~ -11	+8~ -3
18	30	0~ -33	0~ -21	0~ -13	+9~ -4
30	50	0~ -39	0~ -25	0~ -16	+11~ -5
50	80	0~ -46	0~ -30	0~ -19	+12~ -7
80	120	0~ -54	0~ -35	0~ -22	+13~ -9
120	180	0~ -63	0~ -40	0~ -25	+14~ -11

Remark :
dn = bearing bore diameter, d(mm) × rotation speed, n(rpm)

[Table 9.2] Tolerances of shaft for tapered bore type bearings with adapter

Shaft outside diameter (mm)		Tolerance (0.001mm)	Tolerance of roundness (0.001mm) (Max)
over	incl.	h9	
18	30	0~ -33	13
30	50	0~ -39	17
50	80	0~ -46	20
80	120	0~ -54	23
120	180	0~ -63	31

[Table 9.3] Tolerances of shaft for cylindrical bore type bearings with set screws
(High load and impact load)

Shaft outside diameter (mm)		Tolerance(0.001mm)		
over	incl.	m6	m7	m8
10	18	+18 ~ +7	+19 ~ +1	+12 ~ +1
18	30	+21 ~ +8	+23 ~ +2	+15 ~ +2
30	50	+25 ~ +9	+27 ~ +2	+18 ~ +2
50	80	+30 ~ +11	+32 ~ +2	+21 ~ +2
80	120	+35 ~ +13	+38 ~ +3	+25 ~ +3
120	180	+40 ~ +15	+43 ~ +3	+28 ~ +3

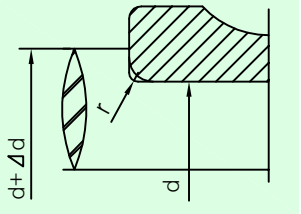
[Tabel 9.4] Tolerances of shaft for blowers

Shaft outside diameter (mm)		Tolerance(0.001mm)	
over	incl.	h5	j5
10	18	0 ~ -8	+5 ~ -3
18	30	0 ~ -9	+6 ~ -4
30	50	0 ~ -11	+6 ~ -5
50	80	0 ~ -13	+6 ~ -7
80	120	0 ~ -15	+6 ~ -9
120	180	0 ~ -18	+7 ~ -11

[Table 9.5] Values of "r" and shaft diameter of shouldered shaft.

Bearing code	r (Max)	Δd (Min)
UC201~203	0.6	5
UC204~206 UCX05~X06	1.0	6
UC207~210 UCX07~X10 UC305~306	1.0	7
UC211~215 UCX11~X15 UC307~309	1.5	9

Bearing code	r (Max)	Δd (Min)
UC216~218 UCX16~X18 UC310~311	2.0	10
UCX20 UC312~316	2.0	12
UC317~324	2.5	14



9.2 Operating temperature

1) Operating temperature range

The operating temperature range of ball bearing units is based on the allowable temperature of the grease and the seal. The operating temperature range of normal ball bearing units is from approximately -20℃ to 100℃. In order to operate this out of range, proper grease type must be used for the intended operating temperature. Also the sealing type and the radial clearance must take into account for proper operation.

2) Bearing temperature rise

The temperature rise of bearing is affected by the internal frictional heat in bearing rotation, by the deterioration caused by the agitate resistance of grease and by heat surrounding the housing, the shaft and the machine. In most cases, the bearing temperature rises sharply during initial operation, under normal operating conditions, then decreases slowly until it reaches a stable condition and then remains thermal equilibrium state. However, if bearing temperature is typically higher 30℃ to 35℃ than ambient temperature, it has high possibility that there is something wrong with operating conditions or bearing itself.

3) Temperature difference and radial internal clearance

In general, the temperature of the inner ring and rolling elements is higher than the outer ring. The temperature difference between inner and outer ring is especially large when the shaft gets heat and the housing gets cold. Its difference makes reduction of the radial internal clearance of the bearing. Thus, when the temperature difference is expected to be large, internal clearance C3 and C4 should be considered. The reduction of radial internal clearance due to the temperature difference can be calculated by the following formula.

$$\delta t \fallingdotseq 12.5 \times 10^{-6}\ t\ \left(\frac{4D+d}{5}\right) \qquad \text{[Formula 9.1]}$$

t : Temperature difference between the inner and the outer ring(℃)
d : Inner ring bore diameter(mm)
D : Outer ring outside diameter(mm)

The axial clearance can also be insufficient when the bearing units are mounted far apart along the shaft. In this case, the axial expansion and ball bearing axial clearance must be carefully matched for proper operation. The shaft expansion, $\Delta\ell$, can be calculated by the following equation.

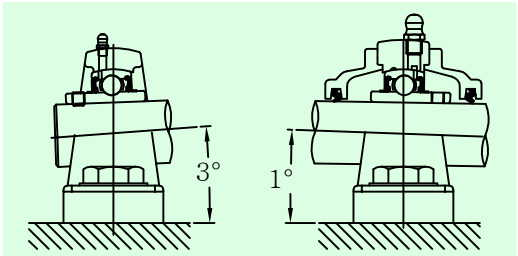
$$\Delta \ell = \alpha \cdot \Delta t \cdot \ell \qquad \text{[Formula 9.2]}$$

α : Coefficient of linear expansion(1/℃)
(coefficient of linear expansion bearing steel : 12.5×10^{-6})
t : Temperature difference(℃)
ℓ : Distance between units(mm)

9.3 Installation of ball bearing units

1) Allowable aligning angle

The bearing units should be mounted within 3° of the bearing locking angle. The operation of the bearing is not affected if the angle between the base of the unit and the shaft axis is greater than 3 °. But, there is a possibility that the grease will not be properly resupplied. If the unit is used with an additional cover, the locking angle should be less than 1° for proper operation.



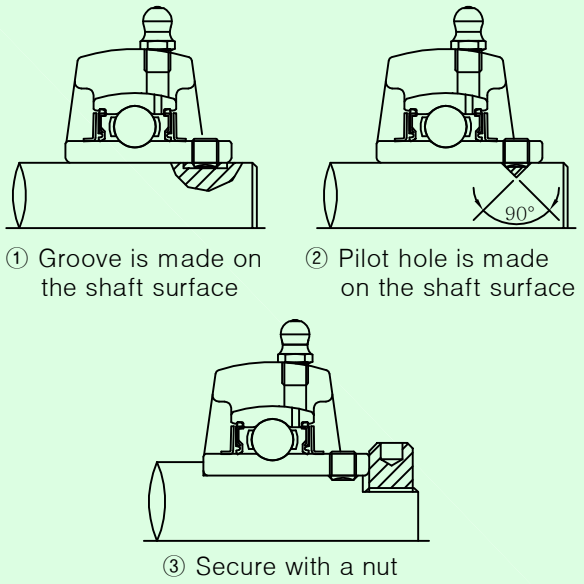
[Fig.9.1] Shaft mounting angle

2) Installation to the shaft

(1) Installation of units with set screws

The unit is simply mounted to the shaft with two hexagonal screws located 120° apart on the inner ring of the bearing. If the unit is mounted in the environment where it is exposed to impact or vibration, or if the shaft is rotated bidirectionally, or if rotation is started and stopped frequently, then one of the following solutions are recommended. [Fig.9.2]

① Grind the surface of the shaft to make a groove.
② Drill hole on the surface of the shaft.
③ Use a shouldered shaft with a nut.



① Groove is made on the shaft surface

② Pilot hole is made on the shaft surface

③ Secure with a nut

[Fig.9.2] Improvement method for set screws tightening

[Table 9.6] Locking torque of bearing set screw

Bearing code	Size of set screws		Locking torque (kgf.cm)
	mm	inch	
USB 08	M2.5x0.35		3.5
MUSB 08	M2.5x0.45		
USB000~001	M3x0.35		8
MUSB000~001	M3x0.5		
USB002~003	M4x0.5		15
MUSB002~003	M4x0.7		
USB004~006	M5x0.5		30
MUSB004~006 UC201~205	M5x0.8	No.10-32	
UC206~207 UCX05~X06 UC305~306	M6x0.75	1/4-28	40
UC208~211 UCX07~X10 UC307	M8x1.0	5/16-24	90
UC212 UCX11 UC308~309	M10x1.25	3/8-24	180
UC213~218 UCX12~X17 UC310~314	M12x1.5	7/16-20	280
UCX18 UC315~316	M14x1.5	9/16-18	350
UCX20 UC317~319	M16x1.5	5/8-18	600
UC320~324	M18x1.5	5/8-18	650
UC326~328	M20x1.5	3/4-16	800

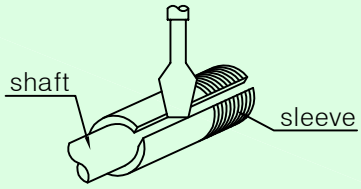
(2) Installation of units with an adapter sleeve

Adapter sleeve mounting method is used with bearing units that have a 1/12 tapered inner ring bore diameter. The adapter type ball bearing unit can be firmly secured to the shaft even when it is subjected to impact loads and severe vibrations.

Procedure for installation of the ball bearing unit with adapter sleeve is as follows.

(1) Fit the sleeve to the shaft and move it to the installing position of the bearing

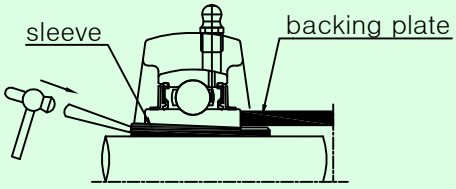
(2) For easy fitting of the sleeve to the shaft, expand its slot with a screw driver.



[Fig.9.3] Fit the sleeve to the shaft

(3) Fit the ball bearing unit (UK) to the sleeve. (with shaft)

(4) The sleeve is inserted into the tapered bore and then gently tap with wooden hammer. Be careful not to strike the slinger.



[Fig.9.4] Fit the sleeve to bearing with tapered bore

(5) Fit the washer and the lock nut to the sleeve, and tighten the lock nut with your hand and further tighten with hook spanner by 1/4 to 1/3 turn of the nut.

Remark :
If the lock nut is over tightened, the radial clearance inside the bearing is reduced which can then lead to excessive heat generation and burning of high load contact areas. Therefore, the nut should never be over tightened.

(6) The rim of the washer should be bent and placed in the groove on the lock nut. As for the tightening torque of the lock nut, see [Table 9.7]

Remark :
The lock nut must not be turned backwards to bring the groove into line with the rim on the washer.

[Table 9.7] Locking torque of adapter(kgf.cm)

Bearing code	Locking torque	Bearing code	Locking torque
UK 205	180	UK 305	250
UK 206	280	UK 306	400
UK 207	380	UK 307	600
UK 208	480	UK 308	750
UK 209	580	UK 309	1050
UK 210	680	UK 310	1350
UK 211	900	UK 311	1600
UK 212	1200	UK 312	1900
UK 213	1400	UK 313	2400
UK 215	1600	UK 315	3400
UK 216	1900	UK 316	3900
UK 217	2200	UK 317	4400
UK 218	2600	UK 318	5400
		UK 319	6400
		UK 320	8000
		UK 322	10000
		UK 324	13000
		UK 326	16000
		UK 328	18000

(3) Installation of units with an eccentric locking collar

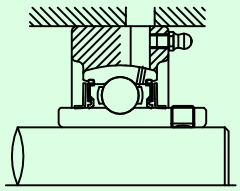
The eccentric locking collar method uses an eccentric locking collar on the outer circumference of the inner ring. This locking method is more simple to use than the bolt mounting method or the adapter sleeve mounting method because the rotating shaft is used to generate the shaft locking force. The self-locking feature of the collar works by converting the rotation of the shaft into a contact force between the eccentric collar, the inner race and the shaft.

3) High temperature applications

Heat resistant bearing units operating at high temperatures receive axial loading by the expansion of the shaft. In this situation, one side of the bearing unit should be firmly fixed to the locking surface and the other side of the bearing unit should be locked freely to absorb the expansion of the shaft as shown in [Fig.9.5], [Fig.9.6].

(1) Cartridge type

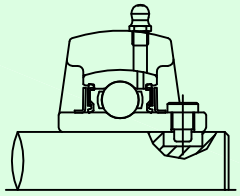
Use the rounded cartridge type unit so that the outer surface of the cartridge housing can move.



[Fig.9.5] Cartridge type

(2) Key type bolt

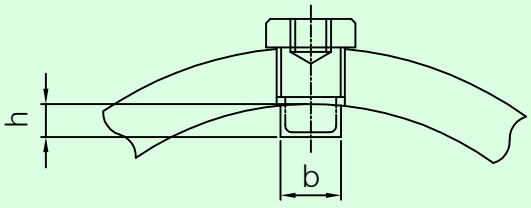
Make a key groove on the shaft and then lock key type bolt.



[Fig.9.6] Key type

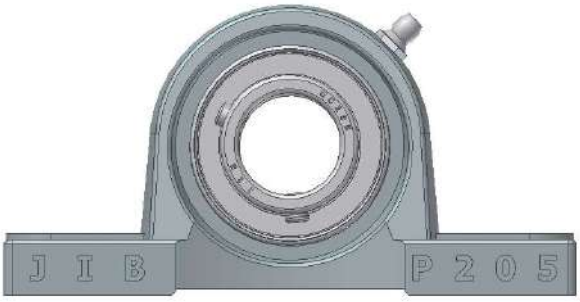
[Table 9.8] Dimensions of key groove(mm)

Bearing code	Locking bolt code	h	b
UC201 ~ 205	M5 x 0.8	–	–
UC206 ~ 207	M6 x 0.75	5	4
UC208 ~ 211	M8 x 1.0	6	6
UC212	M10 x 1.25	6.5	7
UC213~218	M12 x 1.5	8	9
UCX05~06	M6 x 0.75	5	4
UCX07 ~ X10	M8 x 1.0	5	6
UCX11	M10 x 1.25	6.5	7
UCX12 ~ X17	M12 x 1.5	7	9
UCX18	M14 x 1.5	7	10
UCX20	M16 x1.5	7	12
UC305 ~ 306	M6 x 0.75	5	4
UC307	M8 x 1.0	6	6
UC308 ~ 309	M10 x 1.25	6.5	7
UC310 ~ 314	M12 x 1.5	8	9
UC315 ~ 316	M14 x 1.5	8	10
UC317 ~ 319	M16 x 1.5	8	12
UC320 ~ 324	M18 x 1.5	8	13
UC326 ~ 328	M20 x 1.5	8	15

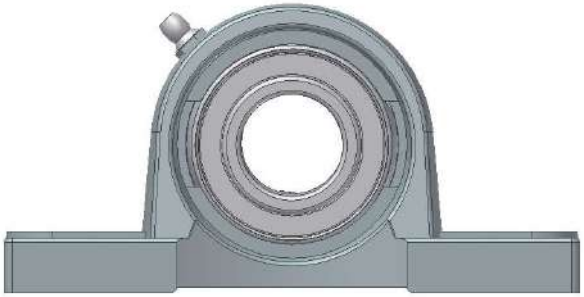


9.4 Replacement

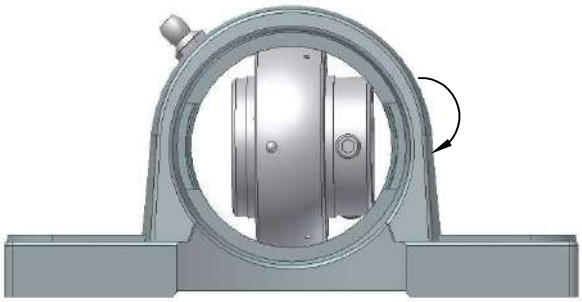
Bearings and housings of JIB ball bearing units are easily replaced each other. When the bearing is removed from the housing, rotate the bearing perpendicular to the housing bore as shown in [Fig.9.9]. Next, the bearing should be rotated to a position where the housing bore diameter assembly groove and the bearing width are equal as shown in [Fig.9.10]. Then, the bearing can be simply removed by pulling towards the assembly groove as shown in [Fig.9.11]. Assembly of the bearing unit is in the opposite order of disassembly.



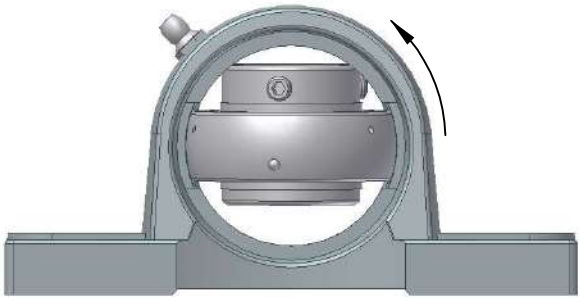
[Fig.9.7] Front of unit



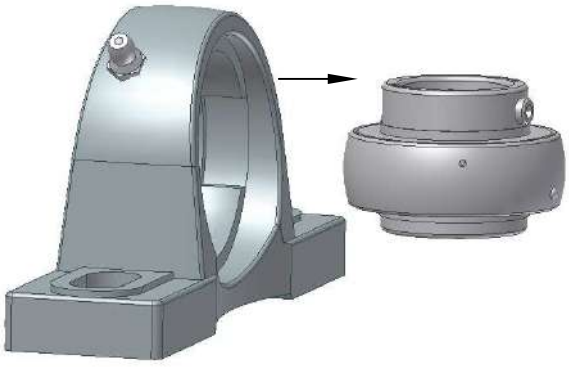
[Fig.9.8] Back of unit



① [Fig.9.9] Rotate the bearing perpendicular to the housing bore.



② [Fig.9.10] The bearing should be rotated to a position where the housing bore diameter assembly groove and the bearing width are equal.



③ [Fig.9.11] The bearing is removed from the housing

9.5 Grease Lubrication

1) Amount of grease

The inserted grease lubricates the internal parts of the bearing and the seal, and also protects against dust and moisture. The proper amount of grease is about 30% to 35% of the internal volume of the bearing. If the grease is over filled, it can cause excessive temperature increase due to agitate resistance. The standard amount of grease filled by JIB is listed in [Table 9.9].

[Table 9.9] Standard amount of grease prelubricated

Bearing code	Supply amount(g)	Bearing code	Supply amount(g)
UC201 ~ 205	1.4	UC305	3
UC206 / UCX05	2.5	UC306	4.5
UC207 / UCX06	3	UC307	6
UC208 / UCX07	4	UC308	9
UC209 / UCX08	4.5	UC309	11
UC210 / UCX09	5.5	UC310	14
UC211 / UCX10	7	UC311	17
UC212 / UCX11	9	UC312	21
UC213 / UCX12	11	UC313	26
UC214 / UCX13	13	UC314	33
UC215 / UCX14	14	UC315	37
UC216 / UCX15	20	UC316	46
UC217 / UCX16	24	UC317	51
UC218 / UCX17	31	UC318	63
UCX18	40	UC319	72
UCX20	58	UC320	90
		UC321	105
		UC322	130
		UC324	150
		UC326	190
		UC328	240

2) Grease resupply

When resupply grease, other grease type which is different from original one should not be used in principle. The proper resupply interval affects to the bearing and grease life. It is safe to regrease regularly under bad operating conditions or operating temperature over 100°C. [Table 9.10] shows resupply intervals and grease used when bearing operates 8 hours a day.

[Table 9.10] Relubrication intervals

Bearing operating temperature (°C)	Relubrication intervals				
	Good environmental condition	Dusty condition	High dust, moisture condition	Bearing	Grease
under 50	–	1 year	4 months	Regular	EP2
under 70	12 months	4 months	1 month		
under 100	6 months	2 months	2 weeks		
under 120	2 months	2 weeks	5 days	Heat resistant (EN2)	Super -lube
under 150	2 weeks	5 days	2 days		
under 180	1 week	2 days	1day		
under 200	3 days	1 day	1day		

Remark :
The greases listed in the table may be changed without notice to improve the quality.

3) Grease life

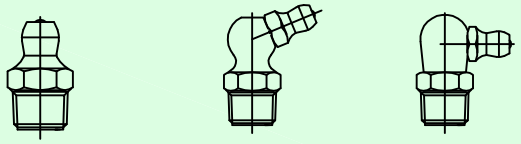
In normal operating conditions, the grease life of sealed bearings is determined by the following formula.

$$\log L = 4.73-(t-17.2) \times \{0.0104+(8.46 \cdot n)\times 10^{-7}\} - 0.03 \frac{n \cdot Fr^{1.5}}{C^{1.9}} \quad \text{[Formula 9.3]}$$

where,
L : Average life of grease(hour)
T : Bearing operating temperature(℃)
n : Rotation speed(rpm)
Fr : Radial load(Kgf)
Cr : Basic dynamic load rating(Kgf)

4) Grease nipple

There are 3 different grease nipple types as shown in [Fig.9.12]. On demand, we supply the applicable fitting as shown in [Table 9.11]



A Type nipple (Regular type) B Type nipple (L Type 67.5°) C Type nipple (L Type 90°)

[Fig.9.12] Nipple types

[Table 9.11] Nipple fitting threads

Bearing code	Basic screw threads	Applicable screw threads
UC201 ~ 210 UCX05 ~ X09 UC305 ~ 308	M6 x 1	1/4-28UNF
UC211 ~ 218 UCX10 ~ X20 UC309 ~ 328	M6 x 1	PT 1/8

9.6 Abnormal phenomena and causes

Abnormal phenomena and causes during operation of ball bearing units. [Table 9.12]

[Table 9.12] Abnormal phenomena and causes

Phenomena	Causes
Excess friction torque (rotating)	1) Reduction of the radial internal clearance due to tight assembly, overtightening of adapter 2) Overlap of seal and slinger due to physical shock during installation 3) Inaccurate alignment of bearings when more than 2 bearing units are installed on a single axis
Noise and vibration	1) Breakdown of the race way due to improper handling or installation 2) Early stage of flaking or breakdown of the race way or the ball 3) Looseness of bearing mounting bolt 4) Looseness of housing mounting bolt 5) Bent shaft 6) Unbalanced load acting on the axis of the rotating machine 7) More than 3 units mounted on a single axis 8) Bad mounting surface, vibration of shaft axis 9) Too much clearance between the shaft and the bearing bore 10) Not enough strength on the mounting surface 11) Entrance of foreign contaminants into the bearing due to breakdown of sealing
Temperature rise	1) Not enough the radial internal clearance of bearing 2) Operating above the maximum rotation speed 3) Overlap between seals and slingers due to installation shock 4) Too much axial loads due to the heat expansion of shaft 5) Early stage of breakdown of some bearing parts

10. Precautions for handling

As the ball bearing unit is a precision part, the maintenance should be handled with care and plan. No matter how good quality and capability of the bearing is, the expected bearing life cannot be achieved without good maintenance practices. Bearing life is affected by operating environment and conditions as the followings thus, we hereby describe precautions for handling as below.

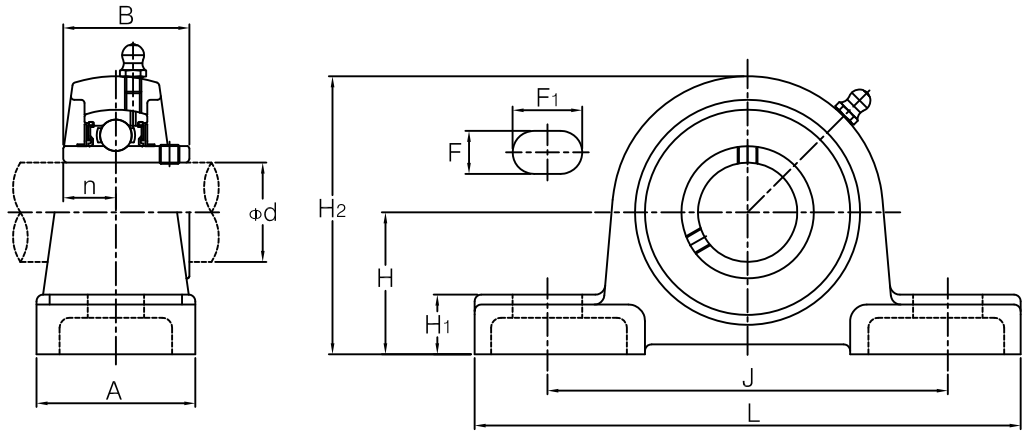
1) Maintain a clean assembly and disassembly area and use suitable tools.
2) Handle a bearing with clean and dry hands.
3) When resupplying grease, refer to the table of relubrication intervals. [Table 9.10]
4) When mounting a bearing onto the shaft, consider values of locking torque. [Refer to A42, 43]
   Excessive locking torque causes breakage of the set screw area on the bearing.
5) When mounting a unit, consider allowable aligning angle [Fig. 9.1]
6) When selecting a shaft, consider tolerances which fit with locking method and rotation speed.
   [Refer to A40]
7) When it needs replacement, use JIB products.
   In case of using other brand's product, bearing life can be shorten by reduction of bearing internal clearance because each company has different standard to manage tolerance of spherical bore diameter of housing. Also, grease leakage may occur because the grease groove of housing isn't corresponding.

B. Units dimension table

PILLOW BLOCK TYPE UNITS

UCP2

(Cylindrical bore)

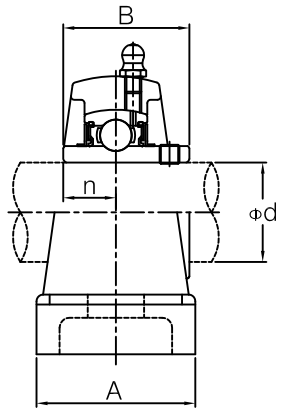


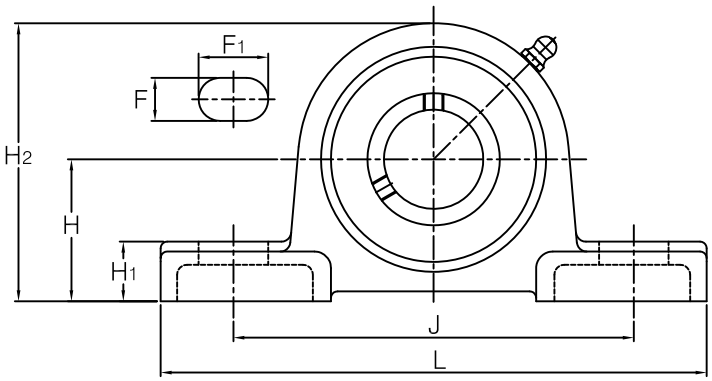
Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	H	L	A	J	F	F1	H1	H2	B	n	Bolt used (mm)	Bolt used (in.)	Bearing No.	Housing No.	Weight (kgf)
			Dimensions (in.) (mm)														
UCP 201	1/2	12	1 3/16	5	1 27/64	3 25/32	1/2	3/4	35/64	2 25/64	1.2205	0.5000	10	3/8	UC 201	P 203	0.71
201-8			30.2	127	36	96	13	19	14	60	31	12.7			201-8		0.71
202	5/8	15													202		0.69
202-10															202-10		0.69
203		17													203		0.68
203-11	11/16														203-11		0.68
UCP 204-12	3/4	20	1 5/16	5	1 1/2	3 3/4	1/2	3/4	35/64	2 9/16	1.2205	0.5000	10	3/8	UC 204-12	P 204	0.66
204			33.3	127	38	95	13	19	14	65	31	12.7			204		0.66
UCP 205-13	13/16	25	1 7/16	5 1/2	1 1/2	4 1/8	1/2	3/4	19/32	2 25/32	1.3425	0.5630	10	3/8	UC 205-13	P 205	0.8
205-14	7/8		36.5	140	38	105	13	19	15	71	34.1	14.3			205-14		0.8
205-15	15/16														205-15		0.8
205															205		0.8
205-16	1														205-16		0.8
UCP 206-17	1 1/16	30	1 11/16	6 1/2	1 7/8	4 3/4	21/32	13/16	21/32	3 9/32	1.5000	0.6260	14	1/2	UC 206-17	P 206	1.3
206-18	1 1/8		42.9	165	48	121	17	21	17	83	38.1	15.9			206-18		1.3
206															206		1.3
206-19	1 3/16														206-19		1.3
206-20	1 1/4														206-20		1.3
UCP 207-20	1 1/4	35	1 7/8	6 9/16	1 7/8	5	21/32	13/16	45/64	3 21/32	1.6890	0.6890	14	1/2	UC 207-20	P 207	1.6
207-21	1 5/16		47.6	167	48	127	17	21	18	93	42.9	17.5			207-21		1.6
207-22	1 3/8														207-22		1.6
207															207		1.6
207-23	1 7/16														207-23		1.6
UCP 208-24	1 1/2	40	1 15/16	7 1/4	2 1/8	5 13/32	21/32	13/16	45/64	3 27/32	1.9370	0.7480	14	1/2	UC 208-24	P 208	2.0
208-25	1 9/16		49.2	184	54	137	17	21	18	98	49.2	19			208-25		2.0
208															208		2.0
UCP 209-26	1 5/8	45	2 1/8	7 15/32	2 1/8	5 3/4	21/32	13/16	25/32	4 3/16	1.9370	0.7480	14	1/2	UC 209-26	P 209	2.2
209-27	1 11/16		54	190	54	146	17	21	20	106	49.2	19			209-27		2.2
209-28	1 3/4														209-28		2.2
209															209		2.2
UCP 210-29	1 13/16	50	2 1/4	8 1/8	2 3/8	6 1/4	25/32	63/64	13/16	4 1/2	2.0315	0.7480	16	5/8	UC 210-29	P 210	2.9
210-30	1 7/8		57.2	206	60	159	20	25	21	114	51.6	19			210-30		2.9
210-31	1 15/16														210-31		2.9
210															210		2.9
210-32	2														210-32		2.9
UCP 211-31	1 15/16	55	2 1/2	8 5/8	2 3/8	6 23/32	25/32	63/64	29/32	4 31/32	2.1890	0.8740	16	5/8	UC 211-31	P 211	3.6
211-32	2		63.5	219	60	171	20	25	23	126	55.6	22.2			211-32		3.6
211-34	2 1/8														211-34		3.6
211															211		3.6
211-35	2 3/16														211-35		3.6
UCP 212-36	2 1/4	60	2 3/4	9 1/2	2 3/4	7 1/4	25/32	63/64	63/64	5 7/16	2.5630	1.0000	16	5/8	UC 212-36	P 212	4.9
212-37	2 5/16		69.8	241	70	184	20	25	25	138	65.1	25.4			212-37		4.9
212															212		4.9
212-38	2 3/8														212-38		4.9
212-39	2 7/16														212-39		4.9
UCP 213-40	2 1/2	65	3	10 25/64	2 3/4	8	63/64	1 3/16	1 1/16	5 15/16	2.5630	1.0000	20	3/4	UC 213-40	P 213	5.9
213			76.2	264	70	203	25	30	27	151	65.1	25.4			213		5.9
UCP 214-43	2 11/16	70	3 1/8	10 15/32	2 27/32	8 9/32	63/64	1 3/16	1 1/16	6 3/16	2.9370	1.1890	20	3/4	UC 214-43	P 214	6.8
214-44	2 3/4		79.4	266	72	210	25	30	27	157	74.6	30.2			214-44		6.8
214															214		6.8
UCP 215-46	2 7/8	75	3 1/4	10 13/16	2 29/32	8 17/32	63/64	1 3/16	1 3/32	6 13/32	3.0630	1.3110	20	3/4	UC 215-46	P 215	7.4
215-47	2 15/16		82.6	275	74	217	25	30	28	163	77.8	33.3			215-47		7.4
215															215		7.4
215-48	3														215-48		7.4
UCP 216		80	3 1/2	11 1/2	3 1/16	9 1/8	63/64	1 3/16	1 3/16	6 57/64	3.2520	1.3110	20	3/4	UC 216	P 216	9.0
			88.9	292	78	232	25	30	30	175	82.6	33.3					
UCP 217-52	3 1/4	85	3 3/4	12 7/32	3 9/32	9 23/32	63/64	1 3/16	1 1/4	7 23/64	3.3740	1.3425	20	3/4	UC 217-52	P 217	10.8
217			95.2	310	83	247	25	30	32	187	85.7	34.1			217		10.8
UCP 218-56	3 1/2	90	4	12 7/8	3 15/32	10 5/16	1 1/16	1 13/32	1 5/16	7 7/8	3.7795	1.5630	20	3/4	UC 218-56	P 218	13.9
218			101.6	327	88	262	27	36	33	200	96	39.7			218		13.9

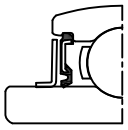
PILLOW BLOCK TYPE UNITS

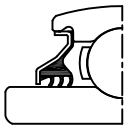
UCPX

(Cylindrical bore)






LS type

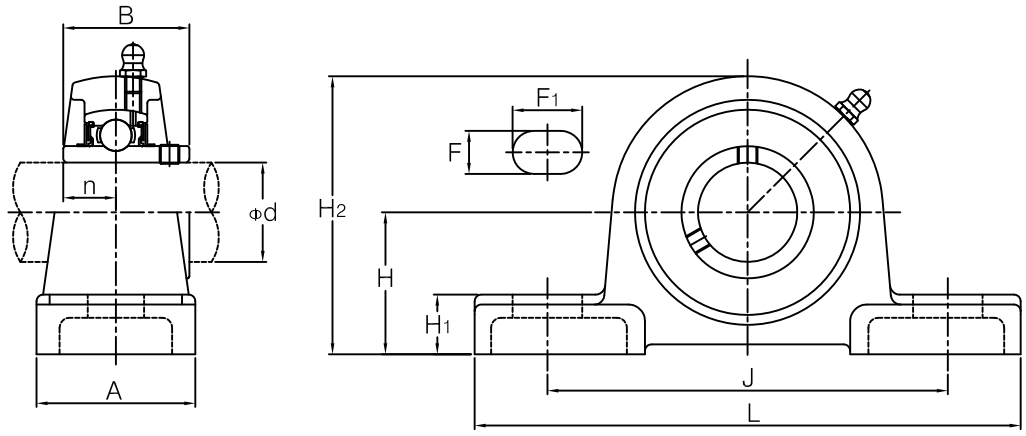

L3 type

Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	H	L	A	J	F	F1	H1	H2	B	n	Bolt used (mm)	Bolt used (in.)	Bearing No.	Housing No.	Weight (kgf)
UCP X05-13	13/16		1 3/4	6 1/4	2	4 11/16	21/32	63/64	45/64	3 11/32	1.5000	0.6260	14	1/2	UC X05-13		1.5
X05-14	7/8		44.45	159	51	119	17	25	18	85	38.1	15.9			X05-14		1.5
X05-15	15/16														X05-15	P X05	1.5
X05		25													X05		1.5
X05-16	1														X05-16		1.5
UCP X06-17	1 1/16		1 7/8	6 7/8	2 1/4	5	21/32	63/64	25/32	3 45/64	1.6890	0.6890	14	1/2	UC X06-17		2.1
X06-18	1 1/8		47.6	175	57	127	17	25	20	94	42.9	17.5			X06-18		2.1
X06		30													X06	P X06	2.1
X06-19	1 3/16														X06-19		2.1
X06-20	1 1/4														X06-20		2.1
UCP X07-20	1 1/4		2 1/8	8	2 1/4	5 21/32	21/32	1 3/16	7/8	4 1/8	1.9370	0.7480	14	1/2	UC X07-20		2.7
X07-21	1 5/16		54	203	57	144	17	30	22	105	49.2	19			X07-21		2.7
X07-22	1 3/8														X07-22	P X07	2.7
X07		35													X07		2.7
X07-23	1 7/16														X07-23		2.7
UCP X08-24	1 1/2		2 5/16	8 3/4	2 5/8	6 5/32	25/32	1 1/4	1 1/32	4 7/16	1.9370	0.7480	16	5/8	UC X08-24		3.5
X08-25	1 9/16		58.7	222	67	156	20	32	26	113	49.2	19			X08-25	P X08	3.5
X08		40													X08		3.5
UCP X09-26	1 5/8		2 5/16	8 3/4	2 5/8	6 5/32	25/32	1 5/16	1 1/32	4 9/16	2.0315	0.7480	16	5/8	UC X09-26		3.7
X09-27	1 11/16		58.7	222	67	156	20	33	26	116	51.6	19			X09-27		3.7
X09-28	1 3/4														X09-28	P X09	3.7
X09		45													X09		3.7
UCP X10-30	1 7/8		2 1/2	9 1/2	2 7/8	6 23/32	25/32	1 29/64	1 1/16	4 31/32	2.1890	0.8740	16	5/8	UC X10-30		4.6
X10-31	1 15/16		63.5	241	73	171	20	37	27	126	55.6	22.2			X10-31		4.6
X10		50													X10	P X10	4.6
X10-32	2														X10-32		4.6
UCP X11-31	1 15/16		2 3/4	10 1/4	3 1/8	7 1/4	63/64	1 29/64	1 3/16	5 15/32	2.5630	1.0000	20	3/4	UC X11-31		6.5
X11-32	2		69.8	260	79	184	25	37	30	139	65.1	25.4			X11-32		6.5
X11-34	2 1/8														X11-34	P X11	6.5
X11		55													X11		6.5
X11-35	2 3/16														X11-35		6.5
UCP X12-36	2 1/4		3	11 1/4	3 9/32	8	63/64	1 5/8	1 1/4	5 15/16	2.5630	1.0000	20	3/4	UC X12-36		7.7
X12-37	2 5/16		76.2	286	83	203	25	41	32	151	65.1	25.4			X12-37		7.7
X12		60													X12	P X12	7.7
X12-38	2 3/8														X12-38		7.7
X12-39	2 7/16														X12-39		7.7
UCP X13-40	2 1/2		3	11 1/4	3 9/32	8	63/64	1 5/8	1 1/4	5 15/16	2.9370	1.1890	20	3/4	UC X13-40		8.1
X13		65	76.2	286	83	203	25	41	32	151	74.6	30.2			X13	P X13	8.1
UCP X14-43	2 11/16		3 1/2	13	3 1/2	9 1/32	1 1/16	2	1 3/8	6 25/32	3.0630	1.3110	22	7/8	UC X14-43		10.2
X14-44	2 3/4		88.9	330	89	229	27	51	35	172	77.8	33.3			X14-44	P X14	10.2
X14		70													X14		10.2
UCP X15-47	2 15/16		3 1/2	13	3 1/2	9 1/8	1 1/16	2	1 3/8	6 27/32	3.2520	1.3110	22	7/8	UC X15-47		10.8
X15		75	88.9	330	89	232	27	51	35	174	82.6	33.3			X15	P X15	10.8
X15-48	3														X15-48		10.8
UCP X16		80	4	15	4 1/32	11 5/32	1 1/16	2 5/16	1 21/32	7 3/4	3.3740	1.3425	22	7/8	UC X16	P X16	15.3
			101.6	381	102	283	27	59	42	197	85.7	34.1					
UCP X17-52	3 1/4		4	15	4 1/32	11 5/32	1 1/16	2 5/16	1 21/32	7 61/64	3.7795	1.5630	22	7/8	UC X17-52		16.1
X17		85	101.6	381	102	283	27	59	42	202	96	39.7			X17	P X17	16.1
X17-55	3 7/16														X17-55		16.1
UCP X18-56	3 1/2		4	15	4 3/8	11 5/32	1 1/16	2 3/8	1 25/32	8 1/8	4.0945	1.6890	22	7/8	UC X18-56		19.1
X18		90	101.6	381	111	283	27	60	45	206	104	42.9			X18	P X18	19.1
UCP X20		100	5	17	4 3/4	13 9/32	1 5/16	2 17/32	2 1/16	9 27/32	4.6260	1.9370	27	1	UC X20		30.4
X20-63	3 15/16		127	432	121	337	33	64	52	250	117.5	49.2			X20-63	P X20	30.4
X20-64	4														X20-64		30.4

PILLOW BLOCK TYPE UNITS

UCP3

(Cylindrical bore)

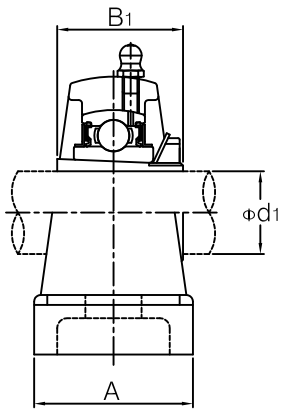


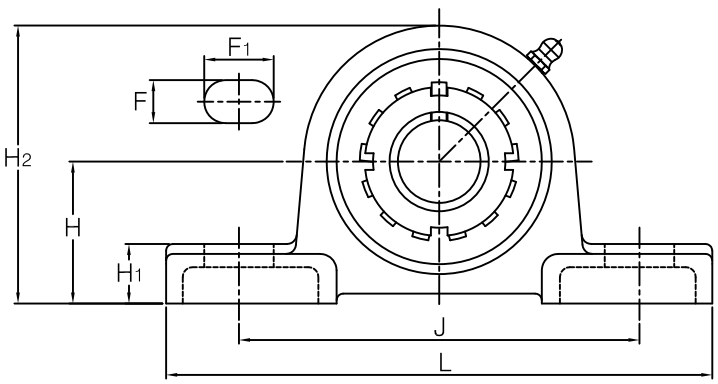
Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	H	L	A	J	F	F1	H1	H2	B	n	Bolt used (mm)	Bolt used (in.)	Bearing No.	Housing No.	Weight (kgf)
			Dimensions (in.) (mm)														
UCP 305		25	1 49/64	6 7/8	1 3/4	5 3/16	21/32	25/32	19/32	3 11/32	1.4961	0.5906	14	1/2	UC 305	P 305	1.7
305-16	1		45	175	45	132	17	20	15	85	38	15			305-16		1.7
UCP 306-18	1 1/8		1 31/32	7 3/32	1 31/32	5 1/2	21/32	25/32	45/64	3 3/4	1.6929	0.6693	14	1/2	UC 306-18	P 306	2.2
306		30	50	180	50	140	17	20	18	95	43	17			306		2.2
UCP 307-20	1 1/4														UC 307-20		3.0
307-22	1 3/8		2 13/64	8 9/32	2 7/32	6 5/16	21/32	63/64	25/32	4 11/64	1.8897	0.7480	14	1/2	307-22	P 307	3.0
307		35	56	210	56	160	17	25	20	106	48	19			307		3.0
307-23	1 7/16														307-23		3.0
UCP 308-24	1 1/2		2 23/64	8 21/32	2 3/8	6 11/16	21/32	1 1/16	7/8	4 9/16	2.0472	0.7480	14	1/2	UC 308-24	P 308	3.8
308		40	60	220	60	170	17	27	22	116	52	19			308		3.8
UCP 309-28	1 3/4		2 41/64	9 21/32	2 5/8	7 15/32	25/32	1 3/16	15/16	5 5/64	2.2441	0.8661	16	5/8	UC 309-28	P 309	4.9
309		45	67	245	67	190	20	30	24	129	57	22			309		4.9
UCP 310-31	1 15/16		2 61/64	10 13/16	2 15/16	8 11/32	25/32	1 3/8	1 1/16	5 5/8	2.4015	0.8661	16	5/8	UC 310-31	P 310	6.6
310		50	75	275	75	212	20	35	27	143	61	22			310		6.6
UCP 311-32	2		3 5/32	12 7/32	3 5/32	9 9/32	25/32	1 1/2	1 3/16	6 1/16	2.5984	0.9842	16	5/8	UC 311-32	P 311	7.9
311		55	80	310	80	236	20	38	30	154	66	25			311		7.9
UCP 312		60	3 11/32	13	3 11/32	9 27/32	63/64	1 1/2	1 1/4	6 1/2	2.7953	1.0236	20	3/4	UC 312	P 312	9.5
			85	330	85	250	25	38	32	165	71	26					9.5
UCP 313-40	2 1/2		3 35/64	13 3/8	3 17/32	10 1/4	63/64	1 1/2	1 5/16	6 15/16	2.9528	1.1811	20	3/4	UC 313-40	P 313	10.7
313		65	90	340	90	260	25	38	33	176	75	30			313		10.7
UCP 314-44	2 3/4		3 47/64	14 3/16	3 17/32	11 1/32	1 1/16	1 9/16	1 3/8	7 23/64	3.0709	1.2992	22	7/8	UC 314-44	P 314	12.4
314		70	95	360	90	280	27	40	35	187	78	33			314		12.4
UCP 315		75	3 15/16	14 31/32	3 15/16	11 13/32	1 1/16	1 9/16	1 3/8	7 25/32	3.2283	1.2598	22	7/8	UC 315	P 315	14.8
315-48	3		100	380	100	290	27	40	35	198	82	32			315-48		14.8
UCP 316		80	4 11/64	15 3/4	4 11/32	11 13/16	1 1/16	1 9/16	1 9/16	8 9/32	3.3858	1.3386	22	7/8	UC 316	P 316	18.5
			106	400	110	300	27	40	40	210	86	34					18.5
UCP 317		85	4 13/32	16 17/32	4 11/32	12 19/32	1 5/16	1 25/32	1 9/16	8 21/32	3.7795	1.5748	27	1	UC 317	P 317	20.3
			112	420	110	320	33	45	40	220	96	40					20.3
UCP 318-56	3 1/2		4 41/64	16 15/16	4 11/32	13	1 5/16	1 25/32	1 25/32	9 1/4	3.7795	1.5748	27	1	UC 318-56	P 318	22.8
318		90	118	430	110	330	33	45	45	235	96	40			318		22.8
UCP 319		95	4 59/64	18 1/2	4 23/32	14 3/16	1 13/32	1 31/32	1 25/32	9 27/32	4.0551	1.6142	30	1 1/8	UC 319	P 319	29.0
			125	470	120	360	36	50	45	250	103	41					29.0
UCP 320		100	5 33/64	19 9/32	4 23/32	14 31/32	1 13/32	1 31/32	1 31/32	10 13/16	4.2519	1.6535	30	1 1/8	UC 320	P 320	35.1
320-64	4		140	490	120	380	36	50	50	275	108	42			320-64		35.1
UCP 321		105	5 33/64	19 9/32	4 23/32	14 31/32	1 13/32	1 31/32	1 31/32	11 3/64	4.4094	1.7323	30	1 1/8	UC 321	P 321	36.0
			140	490	120	380	36	50	50	280	112	44					36.0
UCP 322		110	5 29/32	20 15/32	5 1/2	15 3/4	1 9/16	2 5/32	2 5/32	11 13/16	4.6063	1.8110	33	1 1/4	UC 322	P 322	44.0
			150	520	140	400	40	55	55	300	117	46					44.0
UCP 324		120	6 19/64	22 7/16	5 1/2	17 23/32	1 9/16	2 5/32	2 9/16	12 19/32	4.9606	2.0079	33	1 1/4	UC 324	P 324	55.4
			160	570	140	450	40	55	65	320	126	51					55.4
UCP 326		130	7 3/32	23 5/8	5 1/2	18 29/32	1 9/16	2 5/32	2 61/64	13 31/32	5.3150	2.1260	33	1 1/4	UC 326	P 326	72.1
326-82	5 1/8		180	600	140	480	40	55	75	355	135	54			326-82		72.1
UCP 328-88	5 1/2		7 7/8	24 13/32	5 1/2	19 11/16	1 9/16	2 5/32	2 61/64	15 11/32	5.7086	2.3228	33	1 1/4	UC 328-88	P 328	92.5
328		140	200	620	140	500	40	55	75	390	145	59			328		92.5

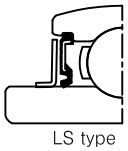
PILLOW BLOCK TYPE UNITS

UKP2

(Tapered bore)





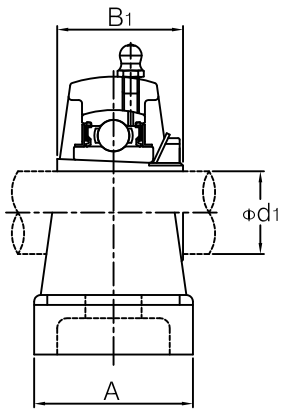


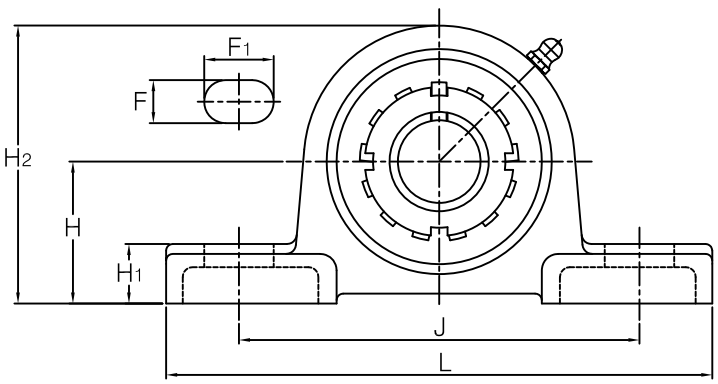
Unit No.	Shaft Dia. d1 (in.)	Shaft Dia. d1 (mm)	H	L	A	J	F	F1	H1	H2	B1	Bolt used (mm)	Bolt used (in.)	Bearing No.	Housing No.	Adapter used	Weight (kgf)
UKP 205	3/4	20	1 7/16	5 1/2	1 1/2	4 1/8	1/2	3/4	19/32	2 25/32	1 3/8	10	3/8	UK 205	P 205	HE2305	0.84
205			36.5	140	38	105	13	19	15	71	35					H 2305	0.84
UKP 206	7/8		1 11/16	6 1/2	1 7/8	4 3/4	21/32	13/16	21/32	3 9/32	1 1/2	14	1/2	UK 206	P 206	HS2306	1.4
206	15/16															HA2306	1.4
206		25	42.9	165	48	121	17	21	17	83	38					H 2306	1.4
206	1															HE2306	1.4
UKP 207	1 1/8		1 7/8	6 9/16	1 7/8	5	21/32	13/16	45/64	3 21/32	1 11/16	14	1/2	UK 207	P 207	HS2307	1.7
207		30	47.6	167	48	127	17	21	18	93	43					H 2307	1.7
207	1 3/16															HA2307	1.7
UKP 208	1 1/4		1 15/16	7 1/4	2 1/8	5 13/32	21/32	13/16	45/64	3 27/32	1 13/16	14	1/2	UK 208	P 208	HE2308	2.0
208	1 3/8	35	49.2	184	54	137	17	21	18	98	46					HS2308	2.0
208																H 2308	2.0
UKP 209	1 7/16		2 1/8	7 15/32	2 1/8	5 3/4	21/32	13/16	25/32	4 3/16	1 31/32	14	1/2	UK 209	P 209	HA2309	2.3
209	1 1/2															HE2309	2.3
209		40	54	190	54	146	17	21	20	106	50					H 2309	2.3
209	1 5/8															HS2309	2.3
UKP 210	1 11/16		2 1/4	8 1/8	2 3/8	6 1/4	25/32	63/64	13/16	4 1/2	2 5/32	16	5/8	UK 210	P 210	HA2310	3.0
210	1 3/4															HE2310	3.0
210		45	57.2	206	60	159	20	25	21	114	55					H 2310	3.0
UKP 211	1 7/8		2 1/2	8 5/8	2 3/8	6 23/32	25/32	63/64	29/32	4 31/32	2 5/16	16	5/8	UK 211	P 211	HS2311	3.7
211	1 15/16															HA2311	3.7
211		50	63.5	219	60	171	20	25	23	126	59					H 2311	3.7
211	2															HE2311	3.7
UKP 212	2 1/8		2 3/4	9 1/2	2 3/4	7 1/4	25/32	63/64	63/64	5 7/16	2 7/16	16	5/8	UK 212	P 212	HS2312	4.8
212		55	69.8	241	70	184	20	25	25	138	62					H 2312	4.8
UKP 213	2 3/16		3	10 25/64	2 3/4	8	63/64	1 3/16	1 1/16	5 15/16	2 9/16	20	3/4	UK 213	P 213	HA2313	5.8
213	2 1/4															HE2313	5.8
213		60	76.2	264	70	203	25	30	27	151	65					H 2313	5.8
213	2 3/8															HS2313	5.8
UKP 215	2 7/16		3 1/4	10 13/16	2 29/32	8 17/32	63/64	1 3/16	1 3/32	6 13/32	2 7/8	20	3/4	UK 215	P 215	HA2315	7.7
215	2 1/2															HE2315	7.7
215		65	82.6	275	74	217	25	30	28	163	73					H 2315	7.7
UKP 216	2 11/16		3 1/2	11 1/2	3 1/16	9 1/8	63/64	1 3/16	1 3/16	6 7/8	3 1/16	20	3/4	UK 216	P 216	HA2316	9.2
216	2 3/4															HE2316	9.2
216		70	88.9	292	78	232	25	30	30	175	78					H 2316	9.2
UKP 217	2 15/16		3 3/4	12 7/32	3 9/32	9 23/32	63/64	1 3/16	1 1/4	7 23/64	3 7/32	20	3/4	UK 217	P 217	HA2317	11.0
217		75	95.2	310	83	247	25	30	32	187	82					H 2317	11.0
217	3															HE2317	11.0
UKP 218		80	4	12 7/8	3 15/32	10 5/16	1 1/16	1 13/32	1 5/16	7 7/8	3 3/8	22	7/8	UK 218	P 218	H 2318	13.8
			101.6	327	88	262	27	36	33	200	86						

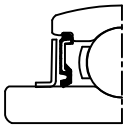
PILLOW BLOCK TYPE UNITS

UKPX

(Tapered bore)





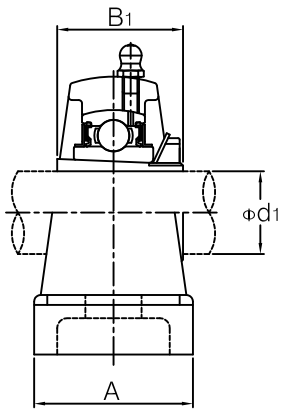


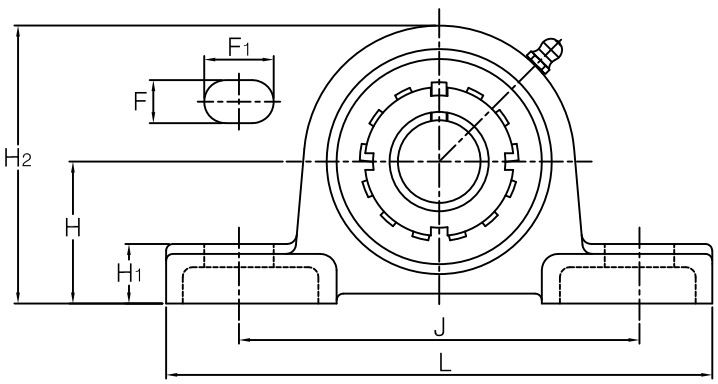
Unit No.	Shaft Dia. d1 (in.)	Shaft Dia. d1 (mm)	H	L	A	J	F	F1	H1	H2	B1	Bolt used (mm)	Bolt used (in.)	Bearing No.	Housing No.	Adapter used	Weight (kgf)
UKP X05	3/4	20	1 3/4 44.45	6 1/4 159	2 51	4 11/16 119	21/32 17	63/64 25	45/64 18	3 11/32 85	1 3/8 35	14	1/2	UK X05	P X05	HE2305	1.5
X05																H 2305	1.5
UKP X06	7/8	25	1 7/8 47.6	6 7/8 175	2 1/4 57	5 127	21/32 17	63/64 25	25/32 20	3 45/64 94	1 1/2 38	14	1/2	UK X06	P X06	HS2306	2.1
X06	15/16															HA2306	2.1
X06	1															H 2306	2.1
X06																HE2306	2.1
UKP X07	1 1/8	30	2 1/8 54	8 203	2 1/4 57	5 21/32 144	21/32 17	1 3/16 30	7/8 22	4 1/8 105	1 11/16 43	14	1/2	UK X07	P X07	HS2307	2.7
X07	1 3/16															H 2307	2.7
X07																HA2307	2.7
UKP X08	1 1/4	35	2 5/16 58.7	8 3/4 222	2 5/8 67	6 5/32 156	25/32 20	1 1/4 32	1 1/32 26	4 7/16 113	1 13/16 46	16	5/8	UK X08	P X08	HE2308	3.5
X08	1 3/8															HS2308	3.5
X08																H 2308	3.5
UKP X09	1 7/16	40	2 5/16 58.7	8 3/4 222	2 5/8 67	6 5/32 156	25/32 20	1 5/16 33	1 1/32 26	4 9/16 116	1 31/32 50	16	5/8	UK X09	P X09	HA2309	3.7
X09	1 1/2															HE2309	3.7
X09	1 5/8															H 2309	3.7
X09																HS2309	3.7
UKP X10	1 11/16	45	2 1/2 63.5	9 1/2 241	2 7/8 73	6 23/32 171	25/32 20	1 29/64 37	1 1/16 27	4 31/32 126	2 5/32 55	16	5/8	UK X10	P X10	HA2310	4.6
X10	1 3/4															HE2310	4.6
X10																H 2310	4.6
UKP X11	1 7/8	50	2 3/4 69.8	10 1/4 260	3 1/8 79	7 1/4 184	63/64 25	1 29/64 37	1 3/16 30	5 15/32 139	2 5/16 59	20	3/4	UK X11	P X11	HS2311	6.2
X11	1 15/16															HA2311	6.2
X11	2															H 2311	6.2
X11																HE2311	6.2
UKP X12	2 1/8	55	3 76.2	11 1/4 286	3 9/32 83	8 203	63/64 25	1 5/8 41	1 1/4 32	5 15/16 151	2 7/16 62	20	3/4	UK X12	P X12	HS2312	7.5
X12																H 2312	7.5
UKP X13	2 3/16	60	3 76.2	11 1/4 286	3 9/32 83	8 203	63/64 25	1 5/8 41	1 1/4 32	6 15/16 151	2 9/16 65	20	3/4	UK X13	P X13	HA2313	7.8
X13	2 1/4															HE2313	7.8
X13	2 3/8															H 2313	7.8
X13																HS2313	7.8
UKP X15	2 1/2	65	3 1/2 88.9	13 330	3 1/2 89	9 1/8 232	1 1/16 27	2 51	1 3/8 35	6 27/32 174	2 7/8 73	22	7/8	UK X15	P X15	HE2315	10.5
X15	2 5/8															H 2315	10.5
X15																HS2315	10.5
UKP X16	2 3/4	70	4 101.6	15 381	4 1/32 102	11 5/32 283	1 1/16 27	2 5/16 59	1 21/32 42	7 3/4 197	3 1/16 78	22	7/8	UK X16	P X16	HE2316	15.4
X16																H 2316	15.4
UKP X17	2 7/8	75	4 101.6	15 381	4 1/32 102	11 5/32 283	1 1/16 27	2 5/16 59	1 21/32 42	7 61/64 202	3 7/32 82	22	7/8	UK X17	P X17	HS2317	15.8
X17	2 15/16															HA2317	15.8
X17	3															H 2317	15.8
X17																HE2317	15.8
UKP X18		80	4 101.6	15 381	4 3/8 111	11 5/32 283	1 1/16 27	2 3/8 60	1 25/32 45	8 1/8 206	3 3/8 86	22	7/8	UK X18	P X18	H 2318	18.6
UKP X20	3 1/2	90	5 127	17 432	4 3/4 121	13 9/32 337	1 5/16 33	2 17/32 64	2 1/16 52	9 27/32 250	3 13/16 97	27	1	UK X20	P X20	HE2320	29.3
X20																H 2320	29.3

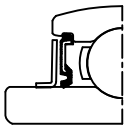
PILLOW BLOCK TYPE UNITS

UKP3

(Tapered bore)







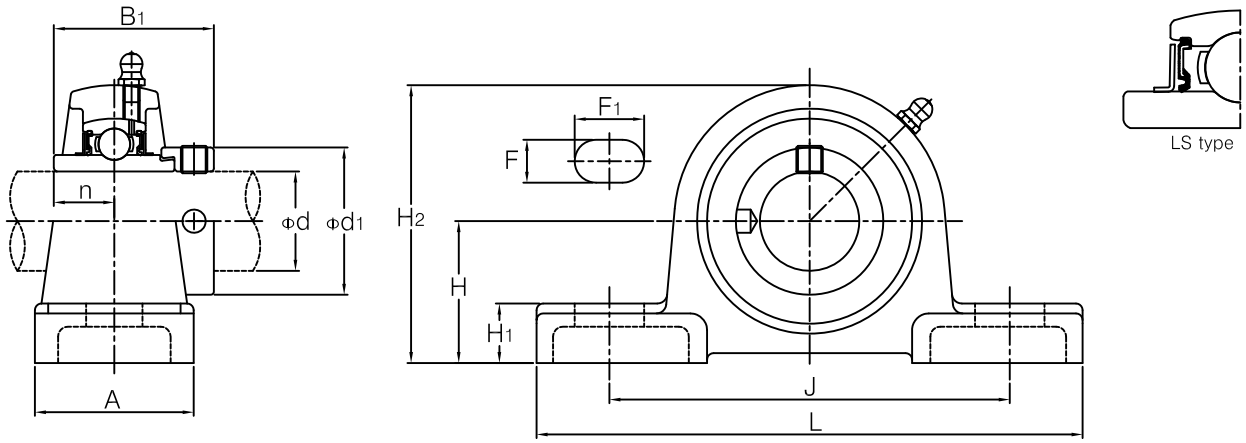
Unit No.	Shaft Dia. d1 (in.)	Shaft Dia. d1 (mm)	Dimensions (in.) (mm) H	L	A	J	F	F1	H1	H2	B1	Bolt used (mm)	Bolt used (in.)	Bearing No.	Housing No.	Adapter used	Weight (kgf)
UKP 305	3/4	20	1 49/64	6 7/8	1 3/4	5 3/16	21/32	25/32	19/32	3 11/32	1 3/8	14	1/2	UK 305	P 305	HE2305	1.7
305			45	175	45	132	17	20	15	85	35					H 2305	1.7
UKP 306	7/8	25	1 31/32	7 3/32	1 31/32	5 1/2	21/32	25/32	45/64	3 3/4	1 1/2	14	1/2	UK 306	P 306	HS2306	2.3
306	15/16		50	180	50	140	17	20	18	95	38					HA2306	2.3
306																H 2306	2.3
306	1															HE2306	2.3
UKP 307	1 1/8	30	2 13/64	8 9/32	2 7/32	6 5/16	21/32	63/64	25/32	4 11/64	1 11/16	14	1/2	UK 307	P 307	HS2307	3.0
307			56	210	56	160	17	25	20	106	43					H 2307	3.0
307	1 3/16															HA2307	3.0
UKP 308	1 1/4	35	2 23/64	8 21/32	2 3/8	6 11/16	21/32	1 1/16	7/8	4 9/16	1 13/16	14	1/2	UK 308	P 308	HE2308	3.8
308	1 3/8		60	220	60	170	17	27	22	116	46					HS2308	3.8
308																H 2308	3.8
UKP 309	1 7/16	40	2 41/64	9 21/32	2 5/8	7 15/32	25/32	1 3/16	15/16	5 5/64	1 31/32	16	5/8	UK 309	P 309	HA2309	5.0
309	1 1/2		67	245	67	190	20	30	24	129	50					HE2309	5.0
309																H 2309	5.0
309	1 5/8															HS2309	5.0
UKP 310	1 11/16	45	2 61/64	10 13/16	2 15/16	8 11/32	25/32	1 3/8	1 1/16	5 5/8	2 5/32	16	5/8	UK 310	P 310	HA2310	6.7
310	1 3/4		75	275	75	212	20	35	27	143	55					HE2310	6.7
310																H 2310	6.7
UKP 311	1 7/8	50	3 5/32	12 7/32	3 5/32	9 9/32	25/32	1 1/2	1 3/16	6 1/16	2 5/16	16	5/8	UK 311	P 311	HS2311	8.1
311	1 15/16		80	310	80	236	20	38	30	154	59					HA2311	8.1
311																H 2311	8.1
311	2															HE2311	8.1
UKP 312	2 1/8	55	3 11/32	13	3 11/32	9 27/32	63/64	1 1/2	1 1/4	6 1/2	2 7/16	20	3/4	UK 312	P 312	HS2312	9.4
312			85	330	85	250	25	38	32	165	62					H 2312	9.4
UKP 313	2 3/16	60	3 35/64	13 3/8	3 17/32	10 1/4	63/64	1 1/2	1 5/16	6 15/16	2 9/16	20	3/4	UK 313	P 313	HA2313	10.8
313	2 1/4		90	340	90	260	25	38	33	176	65					HE2313	10.8
313																H 2313	10.8
313	2 3/8															HS2313	10.8
UKP 315	2 1/2	65	3 15/16	14 31/32	3 15/16	11 13/32	1 1/16	1 9/16	1 3/8	7 25/32	2 7/8	22	7/8	UK 315	P 315	HE2315	14.9
315			100	380	100	290	27	40	35	198	73					H 2315	14.9
UKP 316	2 3/4	70	4 11/64	15 3/4	4 11/32	11 13/16	1 1/16	1 9/16	1 9/16	8 9/32	3 1/16	22	7/8	UK 316	P 316	HE2316	18.6
316			106	400	110	300	27	40	40	210	78					H 2316	18.6
UKP 317		75	4 13/32	16 17/32	4 11/32	12 19/32	1 5/16	1 25/32	1 9/16	8 21/32	3 7/32	27	1	UK 317	P 317	H 2317	20.2
317	3		112	420	110	320	33	45	40	220	82					HE2317	20.2
UKP 318		80	4 41/64	16 15/16	4 11/32	13	1 5/16	1 25/32	1 25/32	9 1/4	3 3/8	27	1	UK 318	P 318	H 2318	22.8
			118	430	110	330	33	45	45	235	86						
UKP 319	3 1/4	85	4 59/64	18 1/2	4 23/32	14 3/16	1 13/32	1 31/32	1 25/32	9 27/32	3 17/32	30	1 1/8	UK 319	P 319	HE2319	29.3
319			125	470	120	360	36	50	45	250	90					H 2319	29.3
UKP 320	3 1/2	90	5 33/64	19 9/32	4 23/32	14 31/32	1 13/32	1 31/32	2 31/32	10 13/16	3 13/16	30	1 1/8	UK 320	P 320	HE2320	34.8
320			140	490	120	380	36	50	50	275	97					H 2320	34.8
UKP 322		100	5 29/32	20 15/32	5 1/2	15 3/4	1 9/16	2 5/32	2 5/32	11 13/16	4 1/8	33	1 1/4	UK 322	P 322	H 2322	43.9
322	4		150	520	140	400	40	55	55	300	105					HE2322	43.9
UKP 324		110	6 23/64	22 7/16	5 1/2	17 23/32	1 9/16	2 5/32	2 9/16	12 19/32	4 13/32	33	1 1/4	UK 324	P 324	H 2324	55.7
324	4 7/16		160	570	140	450	40	55	65	320	112					HA2324	55.7
UKP 326	4 1/2	115	7 3/32	23 5/8	5 1/2	18 29/32	1 9/16	2 5/32	2 61/64	13 31/32	4 3/4	33	1 1/4	UK 326	P 326	HE2326	71.9
326			180	600	140	480	40	55	75	355	121					H 2326	71.9
UKP 328		125	7 7/8	24 9/22	5 1/2	19 11/16	1 9/16	2 5/32	2 61/64	15 11/32	5 5/32	33	1 1/4	UK 328	P 328	H 2328	92.5
328	4 15/16		200	620	140	500	40	55	75	390	131					HA2328	92.5

PILLOW BLOCK TYPE UNITS

HCP2

(Cylindrical bore)

(With eccentric locking collar)

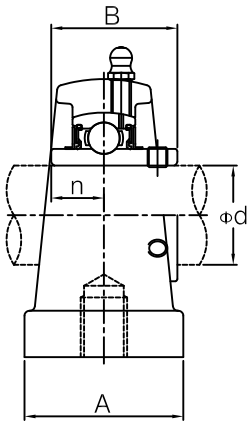


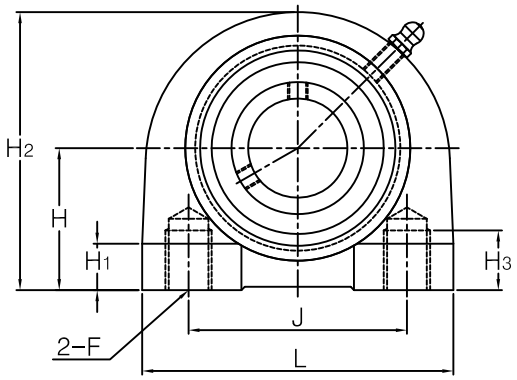
Unit No.	Shaft Dia d (In.)	Shaft Dia d (mm)	H	L	A	J	F	F1	H1	H2	B1	n	d1	Bolt used (mm)	Bolt used (In.)	Bearing No.	Housing No.	Weight (kgf)
HCP 201		12	15/16	5	1 1/2	3 3/4	1/2	3/4	35/64	2 9/16	1.7204	0.6732	1.3110	10	3/8	HC 201	P 204	0.79
201-8	1/2		33.3	127	38	95	13	19	14	65	43.7	17.1	33.3			201-8		0.79
202		15														202		0.77
202-10	5/8															202-10		0.77
203		17														203		0.75
203-11	11/16															203-11		0.75
204-12	3/4															204-12		0.73
204		20														204		0.73
HCP 205-13	13/16		1 7/16	5 1/2	1 1/2	4 1/8	1/2	3/4	19/32	2 25/32	1.7480	0.6890	1.5000	10	3/8	HC 205-13	P 205	0.87
205-14	7/8		36.5	140	38	105	13	19	15	71	44.4	17.5	38.1			205-14		0.87
205-15	15/16															205-15		0.87
205		25														205		0.87
205-16	1															205-16		0.87
HCP 206-17	1 1/16		1 11/16	6 1/2	1 7/8	4 3/4	21/32	13/16	21/32	3 9/32	1.9055	0.7204	1.7520	14	1/2	HC 206-17	P 206	1.4
206-18	1 1/8		42.9	165	48	121	17	21	17	83	48.4	18.3	44.5			206-18		1.4
206		30														206		1.4
206-19	1 3/16															206-19		1.4
206-20	1 1/4															206-20		1.4
HCP 207-20	1 1/4		1 7/8	6 9/16	1 7/8	5	21/32	13/16	45/64	3 21/32	2.0118	0.7402	2.1890	14	1/2	HC 207-20	P 207	1.8
207-21	1 5/16		47.6	167	48	127	17	21	18	93	51.1	18.8	55.6			207-21		1.8
207-22	1 3/8															207-22		1.8
207		35														207		1.8
207-23	1 7/16															207-23		1.8
HCP 208-24	1 1/2		1 15/16	7 1/4	2 1/8	5 13/32	21/32	13/16	45/64	3 27/32	2.2165	0.8425	2.3740	14	1/2	HC 208-24	P 208	2.1
208-25	1 9/16		49.2	184	54	137	17	21	18	98	56.3	21.4	60.3			208-25		2.1
208		40														208		2.1
HCP 209-26	1 5/8		2 1/8	7 15/32	2 1/8	5 3/4	21/32	13/16	25/32	4 3/16	2.2165	0.8425	2.5000	14	1/2	HC 209-26	P 209	2.4
209-27	1 11/16		54	190	54	146	17	21	20	106	56.3	21.4	63.5			209-27		2.4
209-28	1 3/4															209-28		2.4
209		45														209		2.4
HCP 210-29	1 13/16		2 1/4	8 1/8	2 3/8	6 1/4	25/32	63/64	13/16	4 1/2	2.4685	0.9685	2.7520	16	5/8	HC 210-29	P 210	3.1
210-30	1 7/8		57.2	206	60	159	20	25	21	114	62.7	24.6	69.9			210-30		3.1
210-31	1 15/16															210-31		3.1
210		50														210		3.1
210-32	2															210-32		3.1
HCP 211-31	1 15/16		2 1/2	8 5/8	2 3/8	6 23/32	25/32	63/64	29/32	4 31/32	2.8110	1.0945	3.0000	16	5/8	HC 211-31	P 211	3.9
211-32	2		63.5	219	60	171	20	25	23	126	71.4	27.8	76.2			211-32		3.9
211-34	2 1/8															211-34		3.9
211		55														211		3.9
211-35	2 3/16															211-35		3.9
HCP 212-36	2 1/4		2 3/4	9 1/2	2 3/4	7 1/4	25/32	63/64	63/64	5 7/16	3.0630	1.2204	3.3150	16	5/8	HC 212-36	P 212	5.2
212-37	2 5/16		69.8	241	70	184	20	25	25	138	77.8	31	84.2			212-37		5.2
212		60														212		5.2
212-38	2 3/8															212-38		5.2
212-39	2 7/16															212-39		5.2

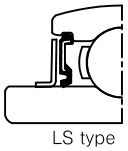
PILLOW BLOCK A TYPE UNITS

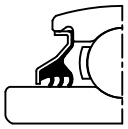
UCPA2

(Cylindrical bore)






LS type

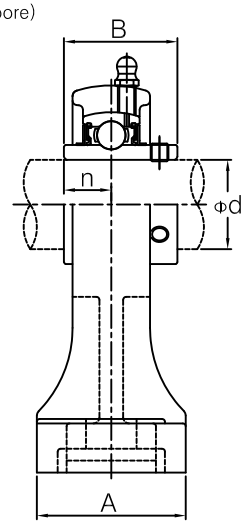

L3 type

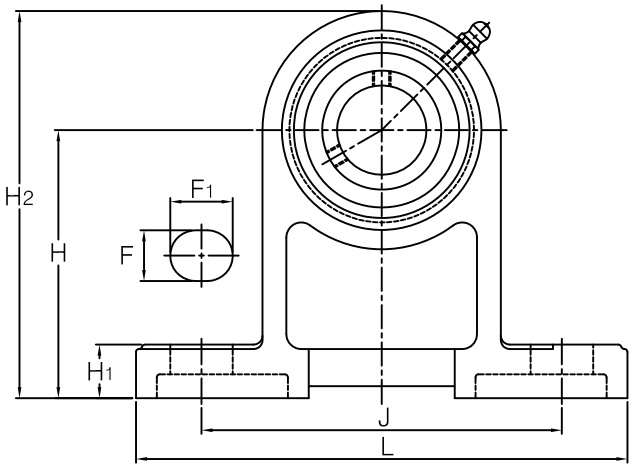
Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	H	L	A	J	F	H1	H2	H3	B	n	Bolt used (mm)	Bearing No.	Housing No.	Weight (kgf)
UCPA 201		12												UC 201		0.64
201-8	1/2													201-8		0.64
202		15												202		0.62
202-10	5/8		1 3/16	3	1 1/2	2 3/64	M10x1.5	7/16	2 7/16	1/2	1.2205	0.5000	10	202-10	PA 204	0.62
203		17	30.2	76	38	52		11	62	13	31	12.7		203		0.61
203-11	11/16													203-11		0.61
204-12	3/4													204-12		0.59
204		20												204		0.59
UCPA 205-13	13/16													UC 205-13		0.83
205-14	7/8													205-14		0.83
205-15	15/16		1 7/16	3 5/32	1 1/2	2 13/64	M10x1.5	15/32	2 27/32	19/32	1.3425	0.5630	10	205-15	PA 205	0.83
205		25	36.5	80	38	56		12	72	15	34.1	14.3		205		0.83
205-16	1													205-16		0.83
UCPA 206-17	1 1/16													UC 206-17		1.2
206-18	1 1/8													206-18		1.2
206		30	1 11/16	3 11/16	1 7/8	2 19/32	M14x2.0	15/32	3 5/16	23/32	1.5000	0.6260	14	206	PA 206	1.2
206-19	1 3/16		42.9	94	48	66		12	84	18	38.1	15.9		206-19		1.2
206-20	1 1/4													206-20		1.2
UCPA 207-20	1 1/4													UC 207-20		1.7
207-21	1 5/16													207-21		1.7
207-22	1 3/8		1 7/8	4 11/32	1 7/8	3 5/32	M14x2.0	15/32	3 3/4	25/32	1.6890	0.6890	14	207-22	PA 207	1.7
207		35	47.6	110	48	80		12	95	20	42.9	17.5		207		1.7
207-23	1 7/16													207-23		1.7
UCPA 208-24	1 1/2													UC 208-24		2.0
208-25	1 9/16		1 15/16	4 9/16	2 1/8	3 5/16	M14x2.0	15/32	3 15/16	25/32	1.9370	0.7480	14	208-25	PA 208	2.0
208		40	49.2	116	54	84		12	100	20	49.2	19		208		2.0
UCPA 209-26	1 5/8													UC 209-26		2.2
209-27	1 11/16													209-27		2.2
209-28	1 3/4		2 9/64	4 23/32	2 1/8	3 35/64	M14x2.0	15/32	4 1/4	63/64	1.9370	0.7480	14	209-28	PA 209	2.2
209		45	54.2	120	54	90		12	108	25	49.2	19		209		2.2
UCPA 210-29	1 13/16													UC 210-29		2.8
210-30	1 7/8													210-30		2.8
210-31	1 15/16		2 1/4	5 1/8	2 3/8	3 45/64	M16x2.0	35/64	4 9/16	63/64	2.0315	0.7480	16	210-31	PA 210	2.8
210		50	57.2	130	60	94		14	116	25	51.6	19		210		2.8
210-32	2													210-32		2.8
UCPA 211-31	1 15/16													UC 211-31		3.4
211-32	2													211-32		3.4
211-34	2 1/8		2 1/2	5 1/2	2 19/32	4 3/32	M16x2.0	35/64	4 29/32	63/64	2.0315	0.7480	16	211-34	PA 211	3.4
211		55	63.5	140	66	104		14	125	25	55.6	22.2		211		3.4
211-35	2 3/16													211-35		3.4
UCPA 212-36	2 1/4													UC 212-36		4.4
212-37	2 5/16													212-37		4.4
212		60	2 3/4	5 29/32	2 11/16	4 1/2	M16x2.0	19/32	5 7/16	63/64	2.5630	1.0000	16	212	PA 212	4.4
212-38	2 3/8		69.9	150	68	114		15	138	25	65.1	25.4		212-38		4.4
212-39	2 7/16													212-39		4.4
UCPA 213-40	2 1/2		3	6 19/64	2 3/4	4 7/8	M16x2.0	19/32	5 29/32	63/64	2.5630	1.0000	16	UC 213-40	PA 213	5.4
213		65	76.2	160	70	124		15	150	25	65.1	25.4		213		5.4

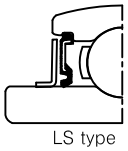
PILLOW BLOCK H TYPE UNITS

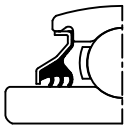
UCPH2

(Cylindrical bore)






LS type


L3 type

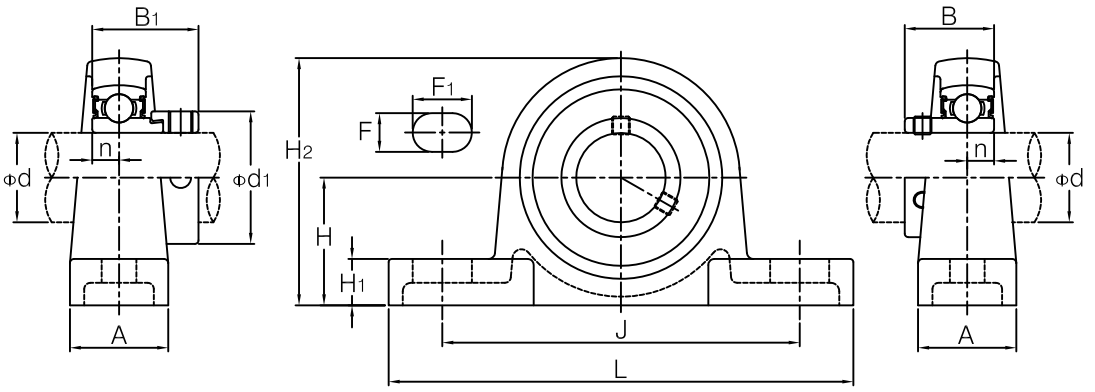
Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	H	L	A	J	F	F1	H1	H2	B	n	Bolt used (mm)	Bolt used (in.)	Bearing No.	Housing No.	Weight (kgf)
UCPH 201		12													UC 201		0.96
201-8	1/2														201-8		0.96
202		15													202		0.94
202-10	5/8		2 3/4	5	1 9/16	3 3/4	1/2	3/4	19/32	3 31/32	1.2205	0.5000	10	3/8	202-10	PH 204	0.94
203		17	70	127	40	95	13	19	15	101	31	12.7			203		0.93
203-11	11/16														203-11		0.93
204-12	3/4														204-12		0.91
204		20													204		0.91
UCPH 205-13	13/16														UC 205-13		1.2
205-14	7/8														205-14		1.2
205-15	15/16		3 5/32	5 1/2	1 31/32	4 1/8	1/2	3/4	5/8	4 1/2	1.3425	0.5630	10	3/8	205-15	PH 205	1.2
205		25	80	140	50	105	13	19	16	114	34.1	14.3			205		1.2
205-16	1														205-16		1.2
UCPH 206-17	1 1/16														UC 206-17		1.6
206-18	1 1/8														206-18		1.6
206		30	3 35/64	6 1/2	1 31/32	4 3/4	21/32	13/16	23/32	5 1/8	1.5000	0.6260	14	1/2	206	PH 206	1.6
206-19	1 3/16		90	165	50	121	17	21	18	130	38.1	15.9			206-19		1.6
206-20	1 1/4														206-20		1.6
UCPH 207-20	1 1/4														UC 207-20		2.0
207-21	1 5/16														207-21		2.0
207-22	1 3/8		3 47/64	6 9/16	2 3/8	5	21/32	13/16	3/4	5 1/2	1.6890	0.6890	14	1/2	207-22	PH 207	2.0
207		35	95	167	60	127	17	21	19	140	42.9	17.5			207		2.0
207-23	1 7/16														207-23		2.0
UCPH 208-24	1 1/2														UC 208-24		2.7
208-25	1 9/16		3 15/16	7 1/4	2 3/4	5 13/32	21/32	63/64	3/4	5 29/32	1.9370	0.7480	14	1/2	208-25	PH 208	2.7
208		40	100	184	70	137	17	25	19	150	49.2	19			208		2.7
UCPH 209-26	1 5/8														UC 209-26		3.0
209-27	1 11/16														209-27		3.0
209-28	1 3/4		4 9/64	7 15/32	2 3/4	5 3/4	21/32	63/64	25/32	6 7/32	1.9370	0.7480	14	1/2	209-28	PH 209	3.0
209		45	105	190	70	146	17	25	20	158	49.2	19			209		3.0
UCPH 210-29	1 13/16														UC 210-29		3.5
210-30	1 7/8														210-30		3.5
210-31	1 15/16		4 21/64	8 1/8	2 3/4	6 1/4	25/32	63/64	7/8	6 1/2	2.0315	0.7480	16	5/8	210-31	PH 210	3.5
210		50	110	206	70	159	20	25	22	165	51.6	19			210		3.5
210-32	2														210-32		3.5

PILLOW BLOCK L TYPE UNITS

SALP2 SBLP2

(Cylindrical bore)

SALP2(With eccentric locking collar), SBLP2(Set screw locking)

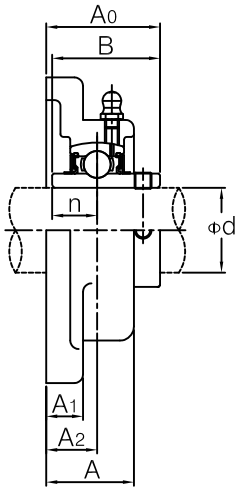


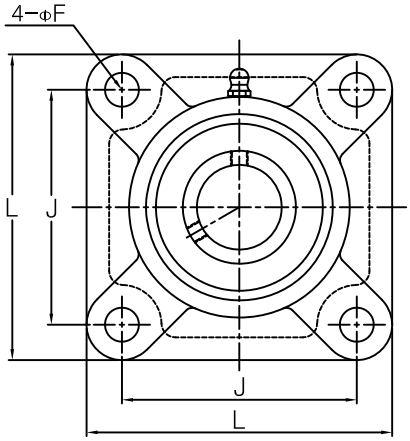
Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	Dimensions (in.) H	L	A	J	F	F1	H1	H2	n	Bolt used (mm)	Bolt used (in.)	S A L P B1	S A L P d1	S A L P Bearing No.	S A L P Weight (kgf)	S B L P B	S B L P Bearing No.	S B L P Weight (kgf)	Housing No.
SALP 201		12														SA 201	0.39		SB 201	0.36	
SBLP 201																					
201-8	1/2															201-8	0.39		201-8	0.36	
202		15	1 3/16	4 31/64	1	3 7/16	7/16	5/8	15/32	2 1/4	0.2560	10	3/8	1.1260	1.1260	202	0.39	0.8858	202	0.36	LP 203
202-10	5/8		30.2	114	25.4	87	11	16	12	57	6.5			28.6	28.6	202-10	0.39	22.5	202-10	0.36	
203		17														203	0.39		203	0.36	
203-11	11/16															203-11	0.39		203-11	0.36	
SALP 204-12	3/4	20	1 5/16	4 59/64	1 1/16	3 13/16	7/16	5/8	1/2	2 9/16	0.2953	10	3/8	1.2204	1.3110	SA 204-12	0.51	1.0039	SB 204-12	0.51	LP 204
SBLP 204			33.3	125	27	97	11	16	12.7	65	7.5			31	33.3	204	0.51	25.5	204	0.51	
SALP 205-13	13/16															SA 205-13	0.61		SB 205-13	0.57	
205-14	7/8															205-14	0.61		205-14	0.57	
205-15	15/16		1 7/16	5 1/8	1 9/64	3 15/16	7/16	5/8	1/2	2 3/4	0.2953	10	3/8	1.2204	1.5000	205-15	0.61	1.0630	205-15	0.57	LP 205
SBLP 205		25	36.5	130	29	100	11	16	12.7	70	7.5			31	38.1	205	0.61	27	205	0.57	
205-16	1															205-16	0.61		205-16	0.57	
SALP 206-17	1 1/16															SA 206-17	0.72		SB 206-17	0.69	
206-18	1 1/8															206-18	0.72		206-18	0.69	
SBLP 206		30	1 11/16	6 9/64	1 19/64	4 47/64	35/64	13/16	19/32	3 9/32	0.3543	14	1/2	1.4055	1.7520	206	0.72	1.1811	206	0.69	LP 206
206-19	1 3/16		42.9	156	33	120	14	21	15	83	9			35.7	44.5	206-19	0.72	30	206-19	0.69	
206-20	1 1/4															206-20	0.72		206-20	0.69	
SALP 207-20	1 1/4															SA 207-20	1.02		SB 207-20	0.94	
SBLP 207-21	1 5/16															207-21	1.02		207-21	0.94	
207-22	1 3/8		1 7/8	6 1/2	1 3/8	5	35/64	13/16	5/8	3 5/8	0.3740	14	1/2	1.5315	2.1890	207-22	1.02	1.3780	207-22	0.94	LP 207
207		35	47.6	165	35	127	14	21	16	92	9.5			38.9	55.6	207	1.02	35	207	0.94	
207-23	1 7/16															207-23	1.02		207-23	0.94	
SALP 208-24	1 1/2															SA 208-24	1.87		SB 208-24	1.80	
SBLP 208-25	1 9/16		2	7 1/4	1 29/64	5 33/64	35/64	7/8	45/64	4 1/32	0.4331	14	1/2	1.7205	2.3740	208-25	1.87	1.5748	208-25	1.80	LP 208
208		40	50.8	184	37	140	14	22	18	102	11			43.7	60.3	208	1.87	40	208	1.80	

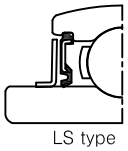
SQUARE FLANGE TYPE UNITS

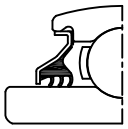
UCF2

(Cylindrical bore)






LS type

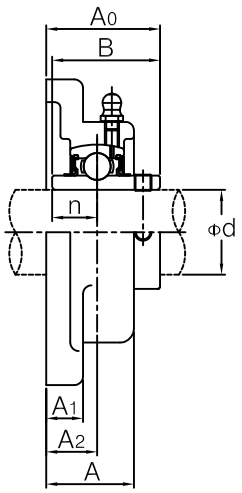

L3 type

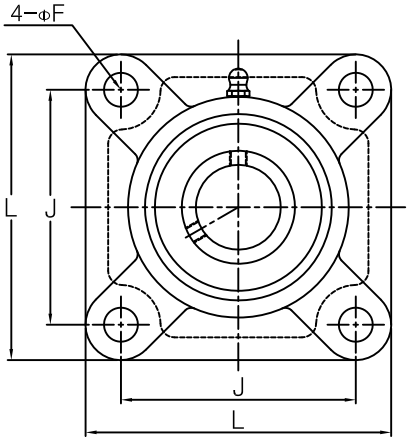
Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	Dimensions (in.) (mm) L	A	J	F	A1	A2	A0	B	n	Bolt used (mm)	Bolt used (in.)	Bearing No.	Housing No.	Weight (kgf)
UCF 201		12												UC 201		0.64
201-8	1/2													201-8		0.64
202		15												202		0.62
202-10	5/8		3 3/8	1	2 33/64	15/32	15/32	19/32	1 5/16	1.2205	0.5000	10	3/8	202-10	F 204	0.62
203		17	86	25.5	64	12	12	15	33.3	31	12.7			203		0.61
203-11	11/16													203-11		0.61
204-12	3/4													204-12		0.59
204		20												204		0.59
UCF 205-13	13/16													UC 205-13		0.83
205-14	7/8													205-14		0.83
205-15	15/16		3 3/4	1 1/16	2 3/4	15/32	35/64	5/8	1 13/32	1.3425	0.5630	10	3/8	205-15	F 205	0.83
205		25	95	27	70	12	14	16	35.8	34.1	14.3			205		0.83
205-16	1													205-16		0.83
UCF 206-17	1 1/16													UC 206-17		1.1
206-18	1 1/8													206-18		1.1
206		30	4 1/4	1 7/32	3 17/64	15/32	9/16	45/64	1 19/32	1.5000	0.6260	10	3/8	206	F 206	1.1
206-19	1 3/16		108	31	83	12	14.3	18	40.2	38.1	15.9			206-19		1.1
206-20	1 1/4													206-20		1.1
UCF 207-20	1 1/4													UC 207-20		1.5
207-21	1 5/16													207-21		1.5
207-22	1 3/8		4 19/32	1 11/32	3 5/8	35/64	39/64	3/4	1 3/4	1.6890	0.6890	12	7/16	207-22	F 207	1.5
207		35	117	34	92	14	15.5	19	44.4	42.9	17.5			207		1.5
207-23	1 7/16													207-23		1.5
UCF 208-24	1 1/2													UC 208-24		1.9
208-25	1 9/16		5 1/8	1 13/32	4 1/64	5/8	39/64	53/64	2 1/32	1.9370	0.7480	14	1/2	208-25	F 208	1.9
208		40	130	36	102	16	15.5	21	51.2	49.2	19			208		1.9
UCF 209-26	1 5/8													UC 209-26		2.2
209-27	1 11/16													209-27		2.2
209-28	1 3/4		5 13/32	1 1/2	4 9/64	5/8	11/16	55/64	2 1/16	1.9370	0.7480	14	1/2	209-28	F 209	2.2
209		45	137	38	105	16	17.5	22	52.2	49.2	19			209		2.2
UCF 210-29	1 13/16													UC 210-29		2.5
210-30	1 7/8													210-30		2.5
210-31	1 15/16		5 5/8	1 9/16	4 3/8	5/8	11/16	55/64	2 5/32	2.0315	0.7480	14	1/2	210-31	F 210	2.5
210		50	143	40	111	16	17.5	22	54.6	51.6	19			210		2.5
210-32	2													210-32		2.5
UCF 211-31	1 15/16													UC 211-31		3.4
211-32	2													211-32		3.4
211-34	2 1/8		6 3/8	1 11/16	5 1/8	3/4	49/64	63/64	2 5/16	2.1890	0.8740	16	5/8	211-34	F 211	3.4
211		55	162	43	130	19	19.5	25	58.4	55.6	22.2			211		3.4
211-35	2 3/16													211-35		3.4
UCF 212-36	2 1/4													UC 212-36		4.2
212-37	2 5/16													212-37		4.2
212		60	6 7/8	1 7/8	5 5/8	3/4	49/64	1 9/64	2 23/32	2.5630	1.0000	16	5/8	212	F 212	4.2
212-38	2 3/8		175	48	143	19	19.5	29	68.7	65.1	25.4			212-38		4.2
212-39	2 7/16													212-39		4.2
UCF 213-40	2 1/2		7 3/8	1 31/32	5 55/64	3/4	29/32	1 3/16	2 3/4	2.5630	1.0000	16	5/8	UC 213-40	F 213	5.2
213		65	187	50	149	19	23	30	69.7	65.1	25.4			213		5.2
UCF 214-43	2 11/16													UC 214-43		5.9
214-44	2 3/4		7 19/32	2 1/8	5 63/64	3/4	29/32	1 7/32	2 31/32	2.9370	1.1890	16	5/8	214-44	F 214	5.9
214		70	193	54	152	19	23	31	75.4	74.6	30.2			214		5.9
UCF 215-46	2 7/8													UC 215-46		6.4
215-47	2 15/16		7 7/8	2 7/32	6 17/64	3/4	29/32	1 11/32	3 3/32	3.0630	1.3110	16	5/8	215-47	F 215	6.4
215		75	200	56	159	19	23	34	78.5	77.8	33.3			215		6.4
215-48	3													215-48		6.4
UCF 216		80	8 3/16	2 9/32	6 1/2	29/32	15/16	1 11/32	3 9/32	3.2520	1.3110	20	3/4	UC 216	F 216	7.3
			208	58	165	23	24	34	83.3	82.6	33.3					7.3
UCF 217-52	3 1/4		8 21/32	2 15/32	6 57/64	29/32	63/64	1 27/64	3 7/16	3.3740	1.3425	20	3/4	UC 217-52	F 217	8.9
217		85	220	63	175	23	25	36	87.6	85.7	34.1			217		8.9
UCF 218-56	3 1/2		9 1/4	2 11/16	7 23/64	29/32	1 1/32	1 37/64	3 25/32	3.7795	1.5630	20	3/4	UC 218-56	F 218	11.4
218		90	235	68	187	23	26	40	96.3	96	39.7			218		11.4

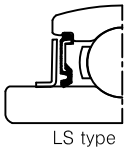
SQUARE FLANGE TYPE UNITS

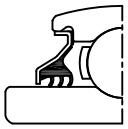
UCFX

(Cylindrical bore)






LS type

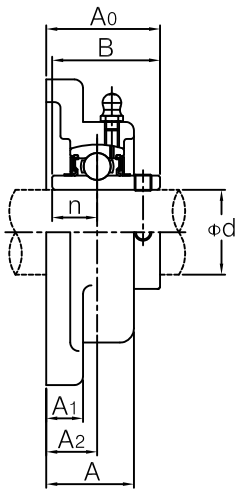

L3 type

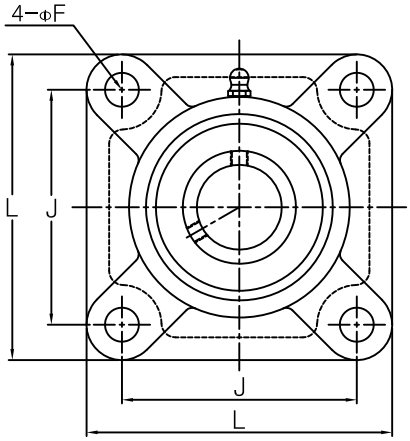
Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	Dimensions (in.) (mm) L	A	J	F	A1	A2	A0	B	n	Bolt used (mm)	Bolt used (in.)	Bearing No.	Housing No.	Weight (kgf)
UCF X05-13	13/16													UC X05-13		1.2
X05-14	7/8													X05-14		1.2
X05-15	15/16		4 1/4	1 3/16	3 17/64	15/32	1/2	45/64	1 19/32	1.5000	0.6260	10	3/8	X05-15	F X05	1.2
X05		25	108	30	83	12	12.7	18	40.2	38.1	15.9			X05		1.2
X05-16	1													X05-16		1.2
UCF X06-17	1 1/16													UC X06-17		1.6
X06-18	1 1/8													X06-18		1.6
X06		30	4 19/32	1 11/32	3 5/8	5/8	9/16	3/4	1 3/4	1.6890	0.6890	14	1/2	X06	F X06	1.6
X06-19	1 3/16		117	34	92	16	14.3	19	44.4	42.9	17.5			X06-19		1.6
X06-20	1 1/4													X06-20		1.6
UCF X07-20	1 1/4													UC X07-20		2.0
X07-21	1 5/16													X07-21		2.0
X07-22	1 3/8		5 1/8	1 1/2	4 1/64	5/8	9/16	53/64	2 1/32	1.9370	0.7480	14	1/2	X07-22	F X07	2.0
X07		35	130	38	102	16	14.3	21	51.2	49.2	19			X07		2.0
X07-23	1 7/16													X07-23		2.0
UCF X08-24	1 1/2													UC X08-24		2.4
X08-25	1 9/16		5 13/32	1 9/16	4 9/64	3/4	9/16	55/64	2 1/16	1.9370	0.7480	16	5/8	X08-25	F X08	2.4
X08		40	137	40	105	19	14.3	22	52.2	49.2	19			X08		2.4
UCF X09-26	1 5/8													UC X09-26		2.7
X09-27	1 11/16													X09-27		2.7
X09-28	1 3/4		5 5/8	1 9/16	4 3/8	3/4	9/16	29/32	2 3/16	2.0315	0.7480	16	5/8	X09-28	F X09	2.7
X09		45	143	40	111	19	14.3	23	55.6	51.6	19			X09		2.7
UCF X10-30	1 7/8													UC X10-30		3.7
X10-31	1 15/16													X10-31		3.7
X10		50	6 3/8	1 23/32	5 1/8	3/4	25/32	1 1/32	2 11/32	2.1890	0.8740	16	5/8	X10	F X10	3.7
X10-32	2		162	44	130	19	19.8	26	59.4	55.6	22.2			X10-32		3.7
UCF X11-31	1 15/16													UC X11-31		4.9
X11-32	2													X11-32		4.9
X11-34	2 1/8		6 7/8	1 15/16	5 5/8	3/4	25/32	1 9/64	2 23/32	2.5630	1.0000	16	5/8	X11-34	F X11	4.9
X11		55	175	49	143	19	19.8	29	68.7	65.1	25.4			X11		4.9
X11-35	2 3/16													X11-35		4.9
UCF X12-36	2 1/4													UC X12-36		5.7
X12-37	2 5/16													X12-37		5.7
X12		60	7 3/8	2 5/16	5 55/64	3/4	13/16	1 11/32	2 29/32	2.5630	1.0000	16	5/8	X12	F X12	5.7
X12-38	2 3/8		187	59	149	19	20.6	34	73.7	65.1	25.4			X12-38		5.7
X12-39	2 7/16													X12-39		5.7
UCF X13-40	2 1/2		7 3/8	2 5/16	5 55/64	3/4	13/16	1 11/32	3 3/32	2.9370	1.1890	16	5/8	UC X13-40	F X13	6.3
X13		65	187	59	149	19	20.6	34	78.4	74.6	30.2			X13		6.3
UCF X14-43	2 11/16													UC X14-43		7.0
X14-44	2 3/4		7 3/4	2 3/8	5 63/64	29/32	15/16	1 29/64	3 7/32	3.0630	1.3110	20	3/4	X14-44	F X14	7.0
X14		70	197	60	152	23	23.8	37	81.5	77.8	33.3			X14		7.0
UCF X15-47	2 15/16													UC X15-47		8.4
X15		75	7 3/4	2 11/16	5 63/64	29/32	15/16	1 37/64	3 17/32	3.2520	1.3110	20	3/4	X15	F X15	8.4
X15-48	3		197	68	152	23	23.8	40	89.3	82.6	33.3			X15-48		8.4
UCF X16		80	8 7/16	2 3/4	6 47/64	29/32	15/16	1 37/64	3 19/32	3.3740	1.3425	20	3/4	UC X16	F X16	9.4
			214	70	171	23	23.8	40	91.6	85.7	34.1					9.4
UCF X17-52	3 1/4													UC X17-52		10.8
X17		85	8 7/16	2 3/4	6 47/64	29/32	15/16	1 36/64	3 25/32	3.7795	1.5630	20	3/4	X17	F X17	10.8
X17-55	3 7/16		214	70	171	23	23.8	40	96.3	96	39.7			X17-55		10.8
UCF X18-56	3 1/2		8 7/16	3	6 47/64	29/32	15/16	1 49/64	4 3/16	4.0945	1.6890	20	3/4	UC X18-56	F X18	11.9
X18		90	214	76	171	23	23.8	45	106.1	104	42.9			X18		11.9
UCF X20		100	10 9/16	3 13/16	8 5/16	1 7/32	1 7/32	2 21/64	5 1/64	4.6260	1.9370	27	1	UC X20		19.4
X20-63	3 15/16													X20-63	F X20	19.4
X20-64	4		268	97	211	31	31	59	127.3	117.5	49.2			X20-64		19.4

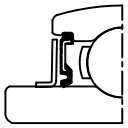
SQUARE FLANGE TYPE UNITS

UCF3

(Cylindrical bore)





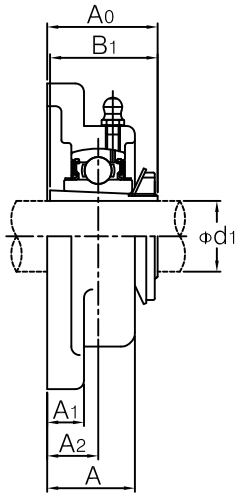

LS type

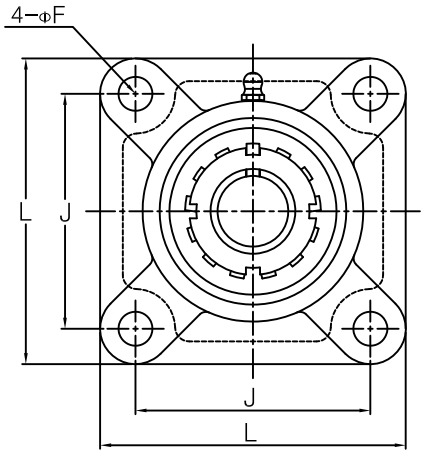
Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	Dimensions (in.) (mm) L	A	J	F	A_1	A_2	A_0	B	n	Bolt used (mm)	Bolt used (in.)	Bearing No.	Housing No.	Weight (kgf)
UCF 305 305-16	1	25	4 11/32 110	1 5/32 29	3 5/32 80	5/8 16	1/2 13	5/8 16	1 17/32 39	1.4961 38	0.5906 15	14	1/2	UC 305 305-16	F 305	1.3 1.3
UCF 306-18 306	1 1/8	30	4 29/32 125	1 1/4 32	3 47/64 95	5/8 16	19/32 15	45/64 18	1 23/32 44	1.6929 43	0.6693 17	14	1/2	UC 306-18 306	F 306	1.9 1.9
UCF 307-20 307-22 307 307-23	1 1/4 1 3/8 1 7/16	35	5 5/16 135	1 13/32 36	3 15/16 100	3/4 19	5/8 16	25/32 20	1 15/16 49	1.8897 48	0.7480 19	16	5/8	UC 307-20 307-22 307 307-23	F 307	2.3 2.3 2.3 2.3
UCF 308-24 308	1 1/2	40	5 29/32 150	1 9/16 40	4 13/32 112	3/4 19	21/32 17	29/32 23	2 7/32 56	2.0472 52	0.7480 19	16	5/8	UC 308-24 308	F 308	3.1 3.1
UCF 309-28 309	1 3/4	45	6 5/16 160	1 23/32 44	4 59/64 125	3/4 19	23/32 18	63/64 25	2 3/8 60	2.2441 57	0.8661 22	16	5/8	UC 309-28 309	F 309	4.0 4.0
UCF 310-31 310	1 15/16	50	6 7/8 175	1 7/8 48	5 13/64 132	29/32 23	3/4 19	1 7/64 28	2 5/8 67	2.4015 61	0.8661 22	20	3/4	UC 310-31 310	F 310	5.1 5.1
UCF 311-32 311	2	55	7 9/32 185	2 1/16 52	5 33/64 140	29/32 23	25/32 20	1 3/16 30	2 25/32 71	2.5984 66	0.9842 25	20	3/4	UC 311-32 311	F 311	5.6 5.6
UCF 312		60	7 11/16 195	2 7/32 56	5 29/32 150	29/32 23	7/8 22	1 19/64 33	3 1/16 78	2.7953 71	1.0236 26	20	3/4	UC 312	F 312	6.9 6.9
UCF 313-40 313	2 1/2	65	8 3/16 208	2 9/32 58	6 17/32 166	29/32 23	7/8 22	1 19/64 33	3 1/16 78	2.9528 75	1.1811 30	20	3/4	UC 313-40 313	F 313	7.8 7.8
UCF 314-44 314	2 3/4	70	8 29/32 226	2 13/32 61	7 1/64 178	63/64 25	63/64 25	1 27/64 36	3 3/16 81	3.0709 78	1.2992 33	22	7/8	UC 314-44 314	F 314	10.1 10.1
UCF 315 315-48	3	75	9 9/32 236	2 19/32 66	7 1/4 184	63/64 25	63/64 25	1 17/32 39	3 1/2 89	3.2283 82	1.2598 32	22	7/8	UC 315 315-48	F 315	11.6 11.6
UCF 316		80	9 27/32 250	2 11/16 68	7 23/32 196	1 7/32 31	1 1/16 27	1 1/2 38	3 17/32 90	3.3858 86	1.3386 34	27	1	UC 316	F 316	12.8 12.8
UCF 317		85	10 1/4 260	2 29/32 74	8 1/32 204	1 7/32 31	1 1/16 27	1 47/64 44	3 15/16 100	3.7795 96	1.5748 40	27	1	UC 317	F 317	15.3 15.3
UCF 318-56 318	3 1/2	90	11 1/32 280	3 76	8 1/2 216	1 3/8 35	1 3/16 30	1 47/64 44	3 15/16 100	3.7795 96	1.5748 40	30	1 1/8	UC 318-56 318	F 318	18.9 18.9
UCF 319		95	11 13/32 290	3 11/16 94	8 31/32 228	1 3/8 35	1 3/16 30	2 21/64 59	4 3/4 121	4.0551 103	1.6142 41	30	1 1/8	UC 319	F 319	21.6 21.6
UCF 320 320-64	4	100	12 7/32 310	3 11/16 94	9 17/32 242	1 1/2 38	1 1/4 32	2 21/64 59	4 29/32 125	4.2519 108	1.6535 42	33	1 1/4	UC 320 320-64	F 320	25.8 25.8
UCF 321		105	12 7/32 310	3 11/16 94	9 17/32 242	1 1/2 38	1 1/4 32	2 21/64 59	5 127	4.4094 112	1.7323 44	33	1 1/4	UC 321	F 321	30.2 30.2
UCF 322		110	13 3/8 340	3 25/32 96	10 15/32 266	1 39/64 41	1 3/8 35	2 23/64 60	5 5/32 131	4.6063 117	1.8110 46	36	1 3/8	UC 322	F 322	35.3 35.3
UCF 324		120	14 9/16 370	4 11/32 110	11 27/64 290	1 39/64 41	1 9/16 40	2 9/16 65	5 1/2 140	4.9606 126	2.0079 51	36	1 3/8	UC 324	F 324	47.3 47.3
UCF 326 326-82	5 1/8	130	16 5/32 410	4 17/32 115	12 19/32 320	1 39/64 41	1 25/32 45	2 9/16 65	5 3/4 146	5.3150 135	2.1260 54	36	1 3/8	UC 326 326-82	F 326	65.5 65.5
UCF 328-88 328	5 1/2	140	17 23/32 450	4 29/32 125	13 25/32 350	1 39/64 41	2 5/32 55	2 61/64 75	6 11/32 161	5.7086 145	2.3228 59	36	1 3/8	UC 328-88 328	F 328	93.4 93.4

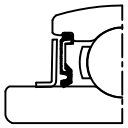
SQUARE FLANGE TYPE UNITS

UKF2

(Tapered bore)





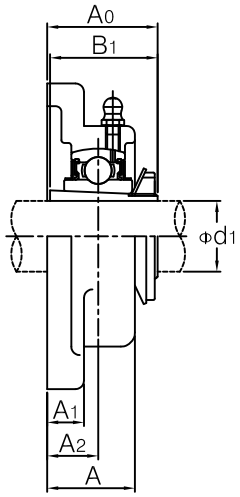


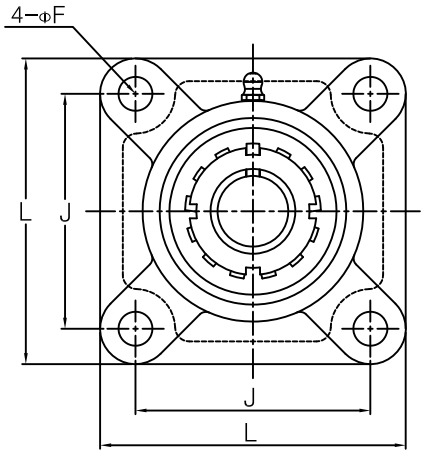
Unit No.	Shaft Dia. d1 (In.)	Shaft Dia. d1 (mm)	Dimensions (in.) (mm) L	A	J	F	A1	A2	A0	B1	Bolt used (mm)	Bolt used (In.)	Bearing No.	Housing No.	Adapter used	Weight (kgf)
UKF 205 205	3/4	20	3 3/4 95	1 1/16 27	2 3/4 70	15/32 12	35/64 14	5/8 16	1 25/64 35.5	1 3/8 35	10	3/8	UK 205	F 205	HE2305 H 2305	0.87 0.87
UKF 206 206 206 206	7/8 15/16 1	25	4 1/4 108	1 7/32 31	3 17/64 83	15/32 12	9/16 14.3	45/64 18	1 17/32 39	1 1/2 38	10	3/8	UK 206	F 206	HS2306 HA2306 H 2306 HE2306	1.3 1.3 1.3 1.3
UKF 207 207 207	1 1/8 1 3/16	30	4 19/32 117	1 11/32 34	3 5/8 92	35/64 14	39/64 15.5	3/4 19	1 41/64 41.5	1 11/16 43	12	7/16	UK 207	F 207	HS2307 H 2307 HA2307	1.6 1.6 1.6
UKF 208 208 208	1 1/4 1 3/8	35	5 1/8 130	1 13/32 36	4 1/64 102	5/8 16	39/64 15.5	53/64 21	1 51/64 45.5	1 13/16 46	14	1/2	UK 208	F 208	HE2308 HS2308 H 2308	1.9 1.9 1.9
UKF 209 209 209 209	1 7/16 1 1/2 1 5/8	40	5 13/32 137	1 1/2 38	4 9/64 105	5/8 16	11/16 17.5	55/64 22	1 57/64 48	1 31/32 50	14	1/2	UK 209	F 209	HA2309 HE2309 H 2309 HS2309	2.3 2.3 2.3 2.3
UKF 210 210 210	1 11/16 1 3/4	45	5 5/8 143	1 9/16 40	4 3/8 111	5/8 16	11/16 17.5	55/64 22	1 61/64 49.5	2 5/32 55	14	1/2	UK 210	F 210	HA2310 HE2310 H 2310	2.6 2.6 2.6
UKF 211 211 211 211	1 7/8 1 15/16 2	50	6 3/8 162	1 11/16 43	5 1/8 130	3/4 19	49/64 19.5	63/64 25	2 1/8 53.5	2 5/16 59	16	5/8	UK 211	F 211	HS2311 HA2311 H 2311 HE2311	3.5 3.5 3.5 3.5
UKF 212 212	2 1/8	55	6 7/8 175	1 7/8 48	5 5/8 143	3/4 19	49/64 19.5	1 9/64 29	2 23/64 60	2 7/16 62	16	5/8	UK 212	F 212	HS2312 H 2312	4.1 4.1
UKF 213 213 213 213	2 3/16 2 1/4 2 3/8	60	7 3/8 187	1 31/32 50	5 55/64 149	3/4 19	29/32 23	1 3/16 30	2 31/64 63	2 9/16 65	16	5/8	UK 213	F 213	HA2313 HE2313 H 2313 HS2313	5.1 5.1 5.1 5.1
UKF 215 215 215	2 7/16 2 1/2	65	7 7/8 200	2 7/32 56	6 17/64 159	3/4 19	29/32 23	1 11/32 34	2 47/64 69.5	2 7/8 73	16	5/8	UK 215	F 215	HA2315 HE2315 H 2315	6.5 6.5 6.5
UKF 216 216 216	2 11/16 2 3/4	70	8 3/16 208	2 9/32 58	6 1/2 165	29/32 23	15/16 24	1 11/32 34	2 7/8 73	3 1/16 78	20	3/4	UK 216	F 216	HA2316 HE2316 H 2316	7.6 7.6 7.6
UKF 217 217 217	2 15/16 3	75	8 21/32 220	2 15/32 63	6 57/64 175	29/32 23	63/64 25	1 27/64 36	3 1/32 77	3 7/32 82	20	3/4	UK 217	F 217	HA2317 HE2317 H 2317	9.0 9.0 9.0
UKF 218		80	9 1/4 235	2 11/16 68	7 23/64 187	29/32 23	1 1/32 26	1 37/64 40	3 1/4 82.5	3 3/8 86	20	3/4	UK 218	F 218	HS2318	11.4

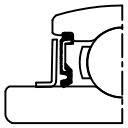
SQUARE FLANGE TYPE UNITS

UKFX

(Tapered bore)





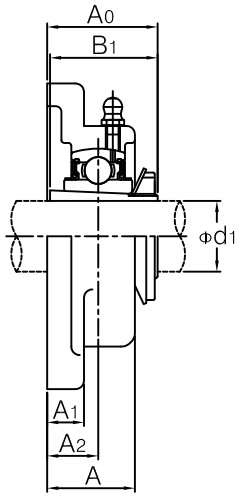


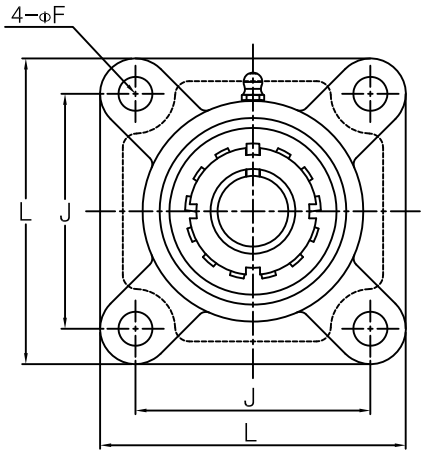
Unit No.	Shaft Dia. d1 (In.)	Shaft Dia. d1 (mm)	Dimensions (in.) (mm) L	A	J	F	A1	A2	A0	B1	Bolt used (mm)	Bolt used (In.)	Bearing No.	Housing No.	Adapter used	Weight (kgf)
UKF X05 X05	3/4	20	4 1/4 108	1 3/16 30	3 17/64 83	15/32 12	1/2 12.7	45/64 18	1 17/32 39	1 3/8 35	10	3/8	UK X05	F X05	HE2305 H 2305	1.2 1.2
UKF X06 X06 X06 X06	7/8 15/16 1	25	4 19/32 117	1 11/32 34	3 5/8 92	5/8 16	9/16 14.3	3/4 19	1 19/32 40.5	1 1/2 38	14	1/2	UK X06	F X06	HS2306 HA2306 H 2306 HE2306	1.6 1.6 1.6 1.6
UKF X07 X07 X07	1 1/8 1 3/16	30	5 1/8 130	1 1/2 38	4 1/64 102	5/8 16	9/16 14.3	53/64 21	1 3/4 44.5	1 11/16 43	14	1/2	UK X07	F X07	HS2307 H 2307 HA2307	2.0 2.0 2.0
UKF X08 X08 X08	1 1/4 1 3/8	35	5 13/32 137	1 9/16 40	4 9/64 105	3/4 19	9/16 14.3	55/64 22	1 27/32 47	1 13/16 46	16	5/8	UK X08	F X08	HE2308 HS2308 H 2308	2.3 2.3 2.3
UKF X09 X09 X09 X09	1 7/16 1 1/2 1 5/8	40	5 5/8 143	1 9/16 40	4 3/8 111	3/4 19	9/16 14.3	29/32 23	1 61/64 49.5	1 31/32 50	16	5/8	UK X09	F 209	HA2309 HE2309 H 2309 HS2309	2.7 2.7 2.7 2.7
UKF X10 X10 X10	1 11/16 1 3/4	45	6 3/8 162	1 23/32 44	5 1/8 130	3/4 19	25/32 19.8	1 1/32 26	2 9/64 54.5	2 5/32 55	16	5/8	UK X10	F X10	HA2310 HE2310 H 2310	3.6 3.6 3.6
UKF X11 X11 X11 X11	1 7/8 1 15/16 2	50	6 7/8 175	1 15/16 49	5 5/8 143	3/4 19	25/32 19.8	1 9/64 29	2 21/64 59	2 5/16 59	16	5/8	UK X11	F X11	HS2311 HA2311 H 2311 HE2311	4.6 4.6 4.6 4.6
UKF X12 X12	2 1/8	55	7 3/8 187	2 5/16 59	5 55/64 149	3/4 19	13/16 20.6	1 11/32 34	2 19/32 66	2 7/16 62	16	5/8	UK X12	F X12	HS2312 H 2312	5.5 5.5
UKF X13 X13 X13 X13	2 3/16 2 1/4 2 3/8	60	7 3/8 187	2 5/16 59	5 55/64 149	3/4 19	13/16 20.6	1 11/32 34	2 43/64 68	2 9/16 65	16	5/8	UK X13	F X13	HA2313 HE2313 H 2313 HS2313	6.0 6.0 6.0 6.0
UKF X15 X15 X15	2 1/2 2 5/8	65	7 3/4 197	2 11/16 68	5 63/64 152	29/32 23	15/16 23.8	1 37/64 40	3 1/32 77	2 7/8 73	20	3/4	UK X15	F X15	HA2315 HE2315 H 2315	8.1 8.1 8.1
UKF X16 X16	2 3/4	70	8 7/16 214	2 3/4 70	6 47/64 171	29/32 23	15/16 23.8	1 37/64 40	3 5/32 80	3 1/16 78	20	3/4	UK X16	F X16	HE2316 H 2316	9.5 9.5
UKF X17 X17 X17 X17	2 7/8 2 15/16 3	75	8 7/16 214	2 3/4 70	6 47/64 171	29/32 23	15/16 23.8	1 37/64 40	3 1/4 82.5	3 7/32 82	20	3/4	UK X16	F X16	HS2317 HA2317 H 2317 HE2317	10.4 10.4 10.4 10.4
UKF X18		80	8 7/16 214	3 76	6 47/64 171	29/32 23	15/16 23.8	1 49/64 45	3 15/32 88	3 3/8 86	20	3/4	UK X18	F X18	H 2318	11.4
UKF X20 X20	3 1/2	90	10 9/16 268	3 13/16 97	8 5/16 211	1 7/32 31	1 7/32 31	2 21/64 59	4 11/64 106	3 13/16 97	27	1	UK X20	F X20	HE2320 H 2320	18.4 18.4

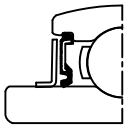
SQUARE FLANGE TYPE UNITS

UKF3

(Tapered bore)





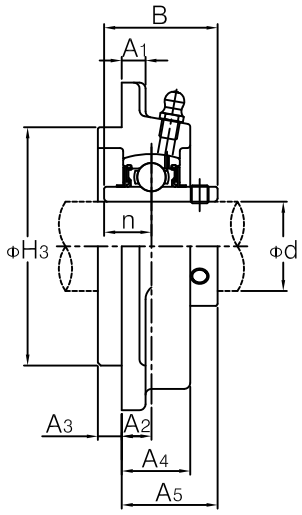


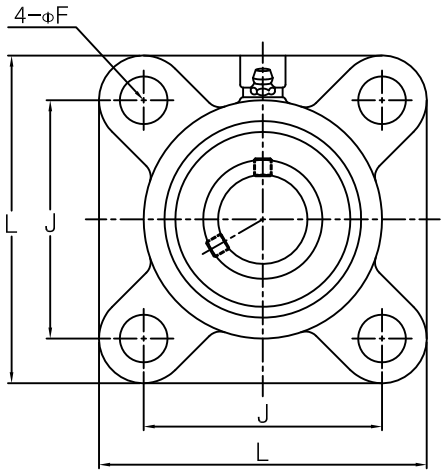
Unit No.	Shaft Dia. d1		Dimensions (in.) (mm)								Bolt used		Bearing No.	Housing No.	Adapter used	Weight (kgf)
	(In.)	(mm)	L	A	J	F	A1	A2	A0	B1	(mm)	(In.)				
UKF 305	3/4		4 11/32	1 5/32	3 5/32	5/8	1/2	5/8	1 15/32	1 3/8	14	1/2	UK 305	F 305	HE2305	1.4
305		20	110	29	80	16	13	16	37.5	35					H 2305	1.4
UKF 306	7/8														HS2306	1.9
306	15/16		4 29/32	1 1/4	3 47/64	5/8	19/32	45/64	1 39/64	1 1/2	14	1/2	UK 306	F 306	HA2306	1.9
306		25	125	32	95	16	15	18	41	38					H 2306	1.9
306	1														HE2306	1.9
UKF 307	1 1/8														HS2307	2.3
307		30	5 5/16	1 13/32	3 15/16	3/4	5/8	25/32	1 51/64	1 11/16	16	5/8	UK 307	F 307	H 2307	2.3
307	1 3/16		135	36	100	19	16	20	45.5	43					HA2307	2.3
UKF 308	1 1/4														HE2308	3.1
308	1 3/8		5 29/32	1 9/16	4 13/32	3/4	21/32	29/32	1 63/64	1 13/16	16	5/8	UK 308	F 308	HS2308	3.1
308		35	150	40	112	19	17	23	50.5	46					H 2308	3.1
UKF 309	1 7/16														HA2309	4.1
309	1 1/2		6 5/16	1 23/32	4 59/64	3/4	23/32	63/64	2 11/64	1 31/32	16	5/8	UK 309	F 309	HE2309	4.1
309		40	160	44	125	19	18	25	55	50					H 2309	4.1
309	1 5/8														HS2309	4.1
UKF 310	1 11/16														HA2310	5.1
310	1 3/4		6 7/8	1 7/8	5 13/64	29/32	3/4	1 7/64	2 23/64	2 5/32	20	3/4	UK 310	F 310	HE2310	5.1
310		45	175	48	132	23	19	28	60	55					H 2310	5.1
UKF 311	1 7/8														HS2311	5.9
311	1 15/16		7 9/32	2 1/16	5 33/64	29/32	25/32	1 3/16	2 1/2	2 5/16	20	3/4	UK 311	F 311	HA2311	5.9
311		50	185	52	140	23	20	30	63.5	59					H 2311	5.9
311	2														HE2311	5.9
UKF 312	2 1/8		7 11/16	2 7/32	5 29/32	29/32	7/8	1 19/64	2 23/32	2 7/16	20	3/4	UK 312	F 312	HS2312	6.8
312		55	195	56	150	23	22	33	69	62					H 2312	6.8
UKF 313	2 3/16														HA2313	7.9
313	2 1/4		8 3/16	2 9/32	6 17/32	29/32	7/8	1 19/64	2 51/64	2 9/16	20	3/4	UK 313	F 313	HE2313	7.9
313		60	208	58	166	23	22	33	71	65					H 2313	7.9
313	2 3/8														HS2313	7.9
UKF 315	2 1/2		9 9/32	2 19/32	7 1/4	63/64	63/64	1 17/32	3 3/16	2 7/8	22	7/8	UK 315	F 315	HE2315	11.7
315		65	236	66	184	25	25	39	81	73					H 2315	11.7
UKF 316	2 3/4														HE2316	12.9
316		70	9 27/32	2 11/16	7 23/32	1 7/32	1 1/16	1 1/2	3 9/32	3 1/16	27	1	UK 316	F 316	H 2316	12.9
UKF 317		75	10 1/4	2 29/32	8 1/32	1 7/32	1 1/16	1 47/64	3 5/8	3 7/32	27	1	UK 317	F 317	H 2317	15.2
317	3		260	74	204	31	27	44	92	82					HE2317	15.2
UKF 318		80	11 1/32	3	8 1/2	1 3/8	1 3/16	1 47/64	3 11/16	3 3/8	30	1 1/8	UK 318	F 318	H 2318	19.0
			280	76	216	35	30	44	93.5	86						
UKF 319	3 1/4		11 13/32	3 11/16	8 31/32	1 3/8	1 3/16	2 21/64	4 3/8	3 17/32	30	1 1/8	UK 319	F 319	HE2319	21.9
319		85	290	94	228	35	30	59	111	90					H 2319	21.9
UKF 320	3 1/2		12 7/32	3 11/16	9 17/32	1 1/2	1 1/4	2 21/64	4 31/64	3 13/16	33	1 1/4	UK 320	F 320	HE2320	25.4
320		90	310	94	242	38	32	59	114	97					H 2320	25.4
UKF 322		100	13 3/8	3 25/32	10 15/32	1 39/64	1 3/8	2 23/64	4 49/64	4 1/8	36	1 3/8	UK 322	F 322	HE2322	35.2
322	4		340	96	266	41	35	60	121	105					H 2322	35.2
UKF 324		110	14 9/16	4 11/32	11 27/64	1 39/64	1 9/16	2 9/16	5 1/8	4 13/32	36	1 3/8	UK 324	F 324	H 2324	47.6
324	4 7/16		370	110	290	41	40	65	130	112					HA2324	47.6
UKF 326	4 1/2		16 5/32	4 17/32	12 19/32	1 39/64	1 25/32	2 9/16	5 9/32	4 3/4	36	1 3/8	UK 326	F 326	HE2326	65.3
326		115	410	115	320	41	45	65	134	121					H 2326	65.3
UKF 328		125	17 23/32	4 29/32	13 25/32	1 39/64	2 5/32	2 61/64	5 53/64	5 5/32	36	1 3/8	UK 328	F 328	H 2328	93.4
328	4 15/16		450	125	350	41	55	75	148	131					HA2328	93.4

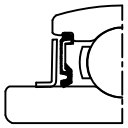
SQUARE FLANGE S TYPE UNITS

UCFS3

(Cylindrical bore)





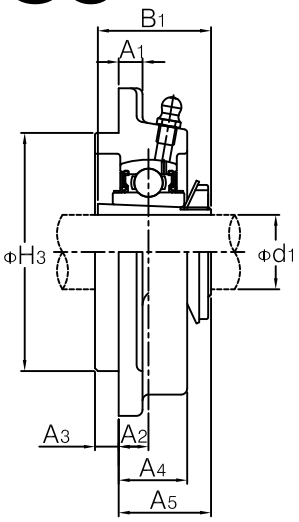

LS type

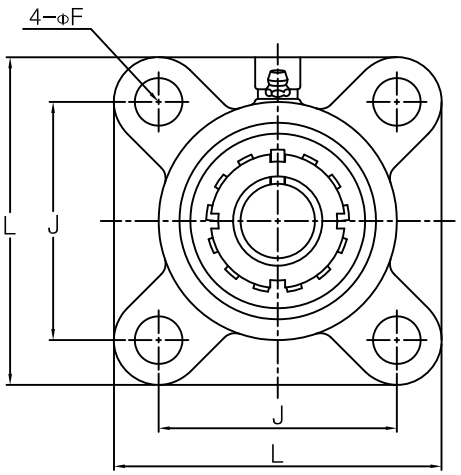
Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	L	H3	J	F	A1	A2	A3	A4	A5	B	n	Bolt used (mm)	Bolt used (in.)	Bearing No.	Housing No.	Weight (kgf)
	(in.)	(mm)	Dimensions (in.) (mm)															
UCFS 305 305-16	1	25	4 11/32 110	3 5/32 80	3 5/32 80	5/8 16	1/2 13	23/64 9	9/32 7	7/8 22	1 1/4 32	1.4961 38	0.5906 15	14	1/2	UC 305 305-16	FS 305	1.4 1.4
UCFS 306-18 306	1 1/8	30	4 29/32 125	3 17/32 90	3 47/64 95	5/8 16	19/32 15	25/64 10	5/16 8	15/16 24	1 13/32 36	1.6929 43	0.6693 17	14	1/2	UC 306-18 306	FS 306	1.9 1.9
UCFS 307-20 307-22 307 307-23	1 1/4 1 3/8 1 7/16	35	5 5/16 135	3 15/16 100	3 15/16 100	3/4 19	5/8 16	7/16 11	23/64 9	1 1/16 27	1 9/16 40	1.8897 48	0.7480 19	16	5/8	UC 307-20 307-22 307 307-23	FS 307	2.3 2.3 2.3 2.3
UCFS 308-24 308	1 1/2	40	5 29/32 150	4 17/32 115	4 13/32 112	3/4 19	21/32 17	33/64 13	25/64 10	1 3/16 30	1 13/16 46	2.0472 52	0.7480 19	16	5/8	UC 308-24 308	FS 308	3.4 3.4
UCFS 309-28 309	1 3/4	45	6 5/16 160	4 59/64 125	4 59/64 125	3/4 19	23/32 18	35/64 14	7/16 11	1 5/16 33	1 15/16 49	2.2441 57	0.8661 22	16	5/8	UC 309-28 309	FS 309	4.4 4.4
UCFS 310-31 310	1 15/16	50	6 7/8 175	5 33/64 140	5 13/64 132	29/32 23	3/4 19	5/8 16	15/32 12	1 13/32 36	2 5/32 55	2.4015 61	0.8861 22	20	3/4	UC 310-31 310	FS 310	5.3 5.3
UCFS 311-32 311	2	55	7 9/32 185	5 29/32 150	5 33/64 140	29/32 23	25/32 20	43/64 17	33/64 13	1 17/32 39	2 9/32 58	2.5984 66	0.9842 25	20	3/4	UC 311-32 311	FS 311	6.1 6.1
UCFS 312		60	7 11/16 195	6 5/16 160	5 29/32 150	29/32 23	7/8 22	3/4 19	35/64 14	1 21/32 42	2 17/32 64	2.7953 71	1.0236 26	20	3/4	UC 312	FS 312	7.4 7.4
UCFS 313-40 313	2 1/2	65	8 3/16 208	6 7/8 175	6 17/32 166	29/32 23	7/8 22	19/32 15	45/64 18	1 9/16 40	2 3/8 60	2.9528 75	1.1811 30	20	3/4	UC 313-40 313	FS 313	8.8 8.8
UCFS 314-44 314	2 3/4	70	8 29/32 226	7 9/32 185	7 1/64 178	63/64 25	63/64 25	45/64 18	45/64 18	1 11/16 43	2 15/32 63	3.0709 78	1.2992 33	22	7/8	UC 314-44 314	FS 314	11.2 11.2
UCFS 315 315-48	3	75	9 9/32 236	7 7/8 200	7 1/4 184	63/64 25	63/64 25	53/64 21	45/64 18	1 7/8 48	2 25/32 71	3.2283 82	1.2598 32	22	7/8	UC 315 315-48	FS 315	13.7 13.7
UCFS 316		80	9 27/32 250	8 9/32 210	7 23/32 196	1 7/32 31	1 1/16 27	45/64 18	25/32 20	1 7/8 48	2 3/4 70	3.3858 86	1.3386 34	27	1	UC 316	FS 316	15.1 15.1
UCFS 317		85	10 1/4 260	8 21/32 220	8 1/32 204	1 7/32 31	1 1/16 27	15/16 24	25/32 20	2 1/8 54	3 5/32 80	3.7795 96	1.5748 40	27	1	UC 317	FS 317	17.3 17.3
UCFS 318-56 318	3 1/2	90	11 1/32 280	9 7/16 240	8 1/2 216	1 3/8 35	1 3/16 30	15/16 24	25/32 20	2 7/32 56	3 5/32 80	3.7795 96	1.5748 40	30	1 1/8	UC 318-56 318	FS 318	21.3 21.3
UCFS 319		95	11 13/32 290	9 27/32 250	8 31/32 228	1 3/8 35	1 3/16 30	1 17/32 39	25/32 20	2 29/32 74	3 31/32 101	4.0551 103	1.6142 41	30	1 1/8	UC 319	FS 319	24.5 24.5
UCFS 320 320-64	4	100	12 7/32 310	10 1/4 260	9 17/32 242	1 1/2 38	1 1/4 32	1 17/32 39	25/32 20	2 29/32 74	4 1/8 105	4.2519 108	1.6535 42	33	1 1/4	UC 320 320-64	FS 320	29.5 29.5
UCFS 321		105	12 7/32 310	10 1/4 260	9 17/32 242	1 1/2 38	1 1/4 32	1 17/32 39	25/32 20	2 29/32 74	4 7/32 107	4.4094 112	1.7323 44	33	1 1/4	UC 321	FS 321	32.7 32.7
UCFS 322		110	13 3/8 340	11 13/16 300	10 15/32 266	1 39/64 41	1 3/8 35	1 3/8 35	63/64 25	2 25/32 71	4 3/16 106	4.6063 117	1.8110 46	36	1 3/8	UC 322	FS 322	39.0 39.0
UCFS 324		120	14 9/16 370	13 330	11 27/64 290	1 39/64 41	1 9/16 40	1 3/8 35	1 3/16 30	3 5/32 80	4 11/32 110	4.9606 126	2.0079 51	36	1 3/8	UC 324	FS 324	50.6 50.6
UCFS 326 326-82	5 1/8	130	16 5/32 410	14 3/16 360	12 19/32 320	1 39/64 41	1 25/32 45	1 3/8 35	1 3/16 30	3 11/32 85	4 9/16 116	5.3150 135	2.1260 54	36	1 3/8	UC 326 326-82	FS 326	67.7 67.7
UCFS 328-88 328	5 1/2	140	17 23/32 450	15 3/4 400	13 25/32 350	1 39/64 41	2 5/32 55	1 49/64 45	1 3/16 30	3 3/4 95	5 5/32 131	5.7086 145	2.3228 59	36	1 3/8	UC 328-88 328	FS 328	94.0 94.0

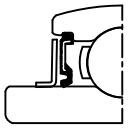
SQUARE FLANGE S TYPE UNITS

UKFS3

(Tapered bore)





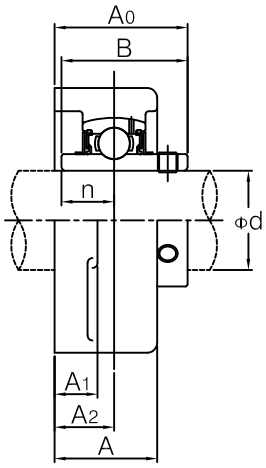

LS type

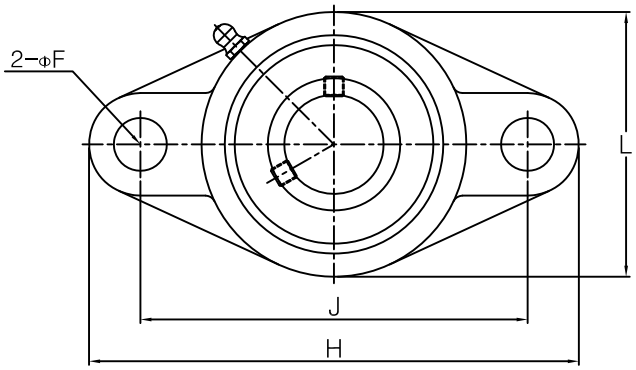
Unit No.	Shaft Dia. d1 (in.)	Shaft Dia. d1 (mm)	L	H3	J	F	A1	A2	A3	A4	A5	B1	Bolt used (mm)	Bolt used (in.)	Bearing No.	Housing No.	Adapter used	Weight (kgf)
UKFS 305 305	3/4	20	4 11/32 110	3 5/32 80	3 5/32 80	5/8 16	1/2 13	23/64 9	9/32 7	7/8 22	1.2008 30.5	1.3780 35	14	1/2	UK 305	FS 305	HE2305 H 2305	1.4 1.4
UKFS 306 306 306	7/8 1	25	4 29/32 125	3 17/32 90	3 47/64 95	5/8 16	19/32 15	25/64 10	5/16 8	15/16 24	1.2992 33	1.4961 38	14	1/2	UK 306	FS 306	HS2306 H 2306 HE2306	1.9 1.9 1.9
UKFS 307 307 307	1 1/8 1 3/16	30	5 5/16 135	3 15/16 100	3 15/16 100	3/4 19	5/8 16	7/16 11	23/64 9	1 1/16 27	1.4370 36.5	1.6929 43	16	5/8	UK 307	FS 307	HS2307 H 2307 HA2307	2.3 2.3 2.3
UKFS 308 308 308	1 1/4 1 3/8	35	5 29/32 150	4 17/32 115	4 13/32 112	3/4 19	21/32 17	33/64 13	25/64 10	1 3/16 30	1.5945 40.5	1.8110 46	16	5/8	UK 308	FS 308	HE2308 HS2308 H 2308	3.4 3.4 3.4
UKFS 309 309 309	1 1/2 1 5/8	40	6 5/16 160	4 59/64 125	4 59/64 125	3/4 19	23/32 18	35/64 14	7/16 11	1 5/16 33	1.7323 44	1.9685 50	16	5/8	UK 309	FS 309	HE2309 H 2309 HS2309	4.4 4.4 4.4
UKFS 310 310 310	1 11/16 1 3/4	45	6 7/8 175	5 33/64 140	5 13/64 132	29/32 23	3/4 19	5/8 16	15/32 12	1 13/32 36	1.8898 48	2.1654 55	20	3/4	UK 310	FS 310	HA2310 HE2310 H 2310	5.3 5.3 5.3
UKFS 311 311 311	1 7/8 2	50	7 9/32 185	5 29/32 150	5 33/64 140	29/32 23	25/32 20	43/64 17	33/64 13	1 17/32 39	1.9882 50.5	2.3228 59	20	3/4	UK 311	FS 311	HS2311 H 2311 HE2311	6.1 6.1 6.1
UKFS 312 312	2 1/8	55	7 11/16 195	6 5/16 160	5 29/32 150	29/32 23	7/8 22	3/4 19	35/64 14	1 21/32 42	2.1653 55	2.4409 62	20	3/4	UK 312	FS 312	HS2312 H 2312	7.4 7.4
UKFS 313 313 313	2 1/4 2 3/8	60	8 3/16 208	6 7/8 175	6 17/32 166	29/32 23	7/8 22	19/32 15	45/64 18	1 9/16 40	2.0866 53	2.5591 65	20	3/4	UK 313	FS 313	HE2313 H 2313 HS2313	8.8 8.8 8.8
UKFS 315 315	2 1/2	65	9 9/32 236	7 7/8 200	7 1/4 184	63/64 25	63/64 25	53/64 21	45/64 18	1 7/8 48	2.4803 63	2.8740 73	22	7/8	UK 315	FS 315	HE2315 H 2315	13.7 13.7
UKFS 316 316	2 3/4	70	9 27/32 250	8 9/32 210	7 23/32 196	1 7/32 31	1 1/16 27	45/64 18	25/32 20	1 7/8 48	2.5 63.5	3.0709 78	27	1	UK 316	FS 316	HE2316 H 2316	15.1 15.1
UKFS 317 317	3	75	10 1/4 260	8 21/32 220	8 1/32 204	1 7/32 31	1 1/16 27	15/16 24	25/32 20	2 1/8 54	2.8346 72	3.2283 82	27	1	UK 317	FS 317	H 2317 HE2317	17.3 17.3
UKFS 318		80	11 1/32 280	9 7/16 240	8 1/2 216	1 3/8 35	1 3/16 30	15/16 24	25/32 20	2 7/32 56	2.8937 73.5	3.3858 86	30	1 1/8	UK 318	FS 318	H 2318	21.3 21.3
UKFS 319 319	3 1/4	85	11 13/32 290	9 27/32 250	8 31/32 228	1 3/8 35	1 3/16 30	1 17/32 39	25/32 20	2 29/32 74	3.5827 91	3.5433 90	30	1 1/8	UK 319	FS 319	HE2319 H 2319	24.5 24.5
UKFS 320 320	3 1/2	90	12 7/32 310	10 1/4 260	9 17/32 242	1 1/2 38	1 1/4 32	1 17/32 39	25/32 20	2 29/32 74	3.7007 94	3.8189 97	33	1 1/4	UK 320	FS 320	HE2320 H 2320	29.5 29.5
UKFS 322 322	4	100	13 3/8 340	11 13/16 300	10 15/32 266	1 39/64 41	1 3/8 35	1 3/8 35	63/64 25	2 25/32 71	3.7795 96	4.1339 105	36	1 3/8	UK 322	FS 322	H 2322 HE2322	39 39
UKFS 324 324	4 7/16	110	14 9/16 370	13 330	11 27/64 290	1 39/64 41	1 9/16 40	1 3/8 35	1 3/16 30	3 5/32 80	3.9370 100	4.4094 112	36	1 3/8	UK 324	FS 324	H 2324 HA2324	50.6 50.6
UKFS 326 326	4 1/2	115	16 5/32 410	14 3/16 360	12 19/32 320	1 39/64 41	1 25/32 45	1 3/8 35	1 3/16 30	3 11/32 85	4.0944 104	4.7638 121	36	1 3/8	UK 326	FS 326	HE2326 H 2326	67.7 67.7
UKFS 328 328	4 15/16	125	17 23/32 450	15 3/4 400	13 25/32 350	1 39/64 41	2 5/32 55	1 49/64 45	1 3/16 30	3 3/4 95	4.6456 118	5.1575 131	36	1 3/8	UK 328	FS 328	HE2328 H 2328	24.5 24.5

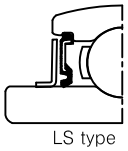
OVAL FLANGE TYPE UNITS

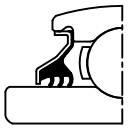
UCFL2

(Cylindrical bore)






LS type

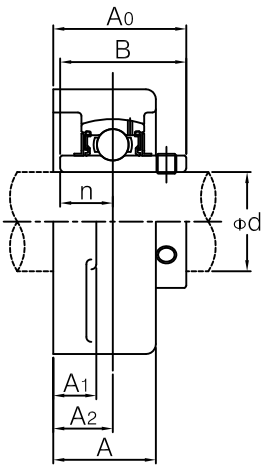

L3 type

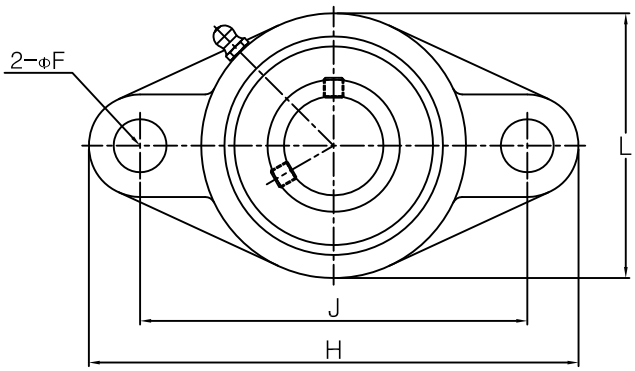
Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	H	L	A	J	F	A1	A2	A0	B	n	Bolt used (mm)	Bolt used (in.)	Bearing No.	Housing No.	Weight (kgf)
UCFL 201	1/2	12	3 57/64	2 1/4	1	3	29/64	7/16	19/32	1 5/16	1.2205	0.5000	10	3/8	UC 201	FL 203	0.50
201-8			99	57	25.5	76.2	11.5	11	15	33.3	31	12.7			201-8		0.50
202	5/8	15													202		0.48
202-10															202-10		0.48
203		17													203		0.47
203-11	11/16														203-11		0.47
UCFL 204-12	3/4	20	4 7/16	2 3/8	1	3 35/64	15/32	7/16	19/32	1 5/16	1.2205	0.5000	10	3/8	204-12	FL 204	0.45
204			113	60	25.5	90	12	11	15	33.3	31	12.7			204		0.45
UCFL 205-13	13/16	25	5 1/8	2 11/16	1 1/16	3 57/64	5/8	1/2	5/8	1 13/32	1.3425	0.5630	14	1/2	UC 205-13	FL 205	0.64
205-14	7/8		130	68	27	99	16	13	16	35.8	34.1	14.3			205-14		0.64
205-15	15/16														205-15		0.64
205															205		0.64
205-16	1														205-16		0.64
UCFL 206-17	1 1/16	30	5 13/16	3 5/32	1 7/32	4 39/64	5/8	1/2	45/64	1 19/32	1.5000	0.6260	14	1/2	UC 206-17	FL 206	0.93
206-18	1 1/8		148	80	31	117	16	13	18	40.2	38.1	15.9			206-18		0.93
206															206		0.93
206-19	1 3/16														206-19		0.93
206-20	1 1/4														206-20		0.93
UCFL 207-20	1 1/4	35	6 11/32	3 17/32	1 11/32	5 1/8	5/8	19/32	3/4	1 3/4	1.6890	0.6890	14	1/2	UC 207-20	FL 207	1.2
207-21	1 5/16		161	90	34	130	16	15	19	44.4	42.9	17.5			207-21		1.2
207-22	1 3/8														207-22		1.2
207															207		1.2
207-23	1 7/16														207-23		1.2
UCFL 208-24	1 1/2	40	6 7/8	3 15/16	1 13/32	5 43/64	5/8	19/32	53/64	2 1/32	1.9370	0.7480	14	1/2	UC 208-24	FL 208	1.6
208-25	1 9/16		175	100	36	144	16	15	21	51.2	49.2	19			208-25		1.6
208															208		1.6
UCFL 209-26	1 5/8	45	7 13/32	4 1/4	1 1/2	5 53/64	3/4	5/8	55/64	2 1/16	1.9370	0.7480	16	5/8	UC 209-26	FL 209	1.9
209-27	1 11/16		188	108	38	148	19	16	22	52.2	49.2	19			209-27		1.9
209-28	1 3/4														209-28		1.9
209															209		1.9
UCFL 210-29	1 13/16	50	7 3/4	4 17/32	1 9/16	6 3/16	3/4	5/8	57/64	2 5/32	2.0315	0.7480	16	5/8	UC 210-29	FL 210	2.2
210-30	1 7/8		197	115	40	157	19	16	22	54.6	51.6	19			210-30		2.2
210-31	1 15/16														210-31		2.2
210															210		2.2
210-32	2														210-32		2.2
UCFL 211-31	1 15/16	55	8 13/16	5 1/8	1 11/16	7 1/4	3/4	23/32	63/64	2 5/16	2.1890	0.8740	16	5/8	UC 211-31	FL 211	3.3
211-32	2		224	130	43	184	19	18	25	58.4	55.6	22.2			211-32		3.3
211-34	2 1/8														211-34		3.3
211															211		3.3
211-35	2 3/16														211-35		3.3
UCFL 212-36	2 1/4	60	9 27/32	5 1/2	1 7/8	7 61/64	29/32	23/32	1 9/64	2 23/32	2.5630	1.0000	20	3/4	UC 212-36	FL 212	4.2
212-37	2 5/16		250	140	48	202	23	18	29	68.7	65.1	25.4			212-37		4.2
212															212		4.2
212-38	2 3/8														212-38		4.2
212-39	2 7/16														212-39		4.2
UCFL 213-40	2 1/2	65	10 5/32	6 3/32	1 31/32	8 17/64	29/32	7/8	1 3/16	2 3/4	2.5630	1.0000	20	3/4	UC 213-40	FL 213	5.1
213			258	155	50	210	23	22	30	69.7	65.1	25.4			213		5.1
UCFL 214-43	2 11/16	70	10 7/16	6 5/16	2 1/8	8 1/2	29/32	7/8	1 7/32	2 31/32	2.9370	1.1890	20	3/4	UC 214-43	FL 214	5.7
214-44	2 3/4		265	160	54	216	23	22	31	75.4	74.6	30.2			214-44		5.7
214															214		5.7
UCFL 215-46	2 7/8	75	10 13/16	6 1/2	2 7/32	8 55/64	29/32	7/8	1 11/32	3 3/32	3.0630	1.3110	20	3/4	UC 215-46	FL 215	6.4
215-47	2 15/16		275	165	56	225	23	22	34	78.5	77.8	33.3			215-47		6.4
215															215		6.4
215-48	3														215-48		6.4
UCFL 216		80	11 13/32	7 3/32	2 9/32	9 11/64	63/64	7/8	1 11/32	3 9/32	3.2520	1.3110	22	7/8	UC 216	FL 216	7.8
			290	180	58	233	25	22	34	83.3	82.6	33.3					
UCFL 217-52	3 1/4	85	12	7 15/32	2 15/32	9 49/64	63/64	15/16	1 27/64	3 7/16	3.3740	1.3425	22	7/8	UC 217-52	FL 217	9.8
217			305	190	63	248	25	24	36	87.6	85.7	34.1			217		9.8
UCFL 218-56	3 1/2	90	12 19/32	8 1/16	2 11/16	10 7/16	63/64	15/16	1 37/64	3 25/32	3.7795	1.5630	22	7/8	UC 218-56	FL 218	12.3
218			320	205	68	265	25	24	40	96.3	96	39.7			218		12.3

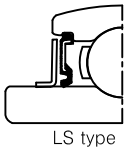
OVAL FLANGE TYPE UNITS

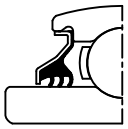
UCFLX

(Cylindrical bore)






LS type

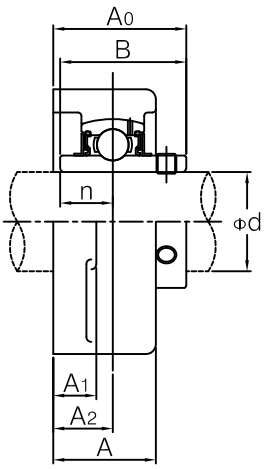

L3 type

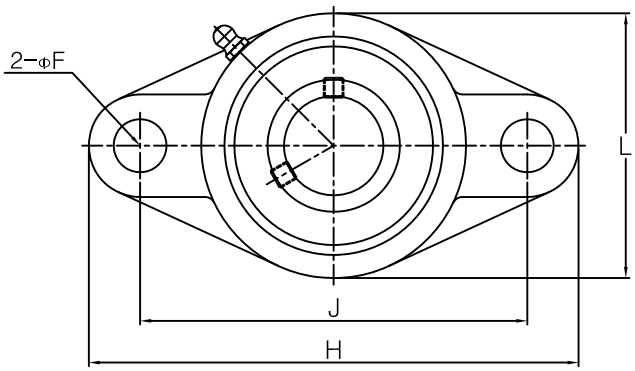
Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	Dimensions (in.) (mm) H	L	A	J	F	A_1	A_2	A_0	B	n	Bolt used (mm)	Bolt used (in.)	Bearing No.	Housing No.	Weight (kgf)
UCFL X05-13	13/16		5 9/16	3 9/32	1 3/16	4 39/64	15/32	1/2	45/64	1 19/32	1.5000	0.6260	10	3/8	UC X05-13	FL X05	1.1
X05-14	7/8		141	83	30	117	12	13	18	40.2	38.1	15.9			X05-14		1.1
X05-15	15/16														X05-15		1.1
X05		25													X05		1.1
X05-16	1														X05-16		1.1
UCFL X06-17	1 1/16		6 5/32	3 3/4	1 11/32	5 1/8	5/8	19/32	3/4	1 3/4	1.6890	0.6890	14	1/2	UC X06-17	FL X06	1.5
X06-18	1 1/8		156	95	34	130	16	15	19	44.4	42.9	17.5			X06-18		1.5
X06		30													X06		1.5
X06-19	1 3/16														X06-19		1.5
X06-20	1 1/4														X06-20		1.5
UCFL X07-20	1 1/4		6 23/32	4 1/8	1 1/2	5 43/64	5/8	5/8	53/64	2 1/32	1.9370	0.7480	14	1/2	UC X07-20	FL X07	1.9
X07-21	1 5/16		171	105	38	144	16	16	21	51.2	49.2	19			X07-21		1.9
X07-22	1 3/8														X07-22		1.9
X07		35													X07		1.9
X07-23	1 7/16														X07-23		1.9
UCFL X08-24	1 1/2		7 1/16	4 3/8	1 9/16	5 53/64	5/8	5/8	55/64	2 1/16	1.9370	0.7480	14	1/2	UC X08-24	FL X08	2.1
X08-25	1 9/16		179	111	40	148	16	16	22	52.2	49.2	19			X08-25		2.1
X08		40													X08		2.1
UCFL X09-26	1 5/8		7 7/16	4 9/16	1 9/16	6 3/16	5/8	5/8	29/32	2 3/16	2.0315	0.7480	14	1/2	UC X09-26	FL X09	2.4
X09-27	1 11/16		189	116	40	157	16	16	23	55.6	51.6	19			X09-27		2.4
X09-28	1 3/4														X09-28		2.4
X09		45													X09		2.4
UCFL X10-30	1 7/8		8 1/2	5 1/4	1 23/32	7 1/4	3/4	45/64	1 1/32	2 11/32	2.1890	0.8740	16	5/8	UC X10-30	FL X10	3.8
X10-31	1 15/16		216	133	44	184	19	18	26	59.4	55.6	22.2			X10-31		3.8
X10		50													X10		3.8
X10-32	2														X10-32		3.8

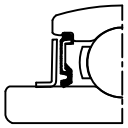
OVAL FLANGE TYPE UNITS

UCFL3

(Cylindrical bore)





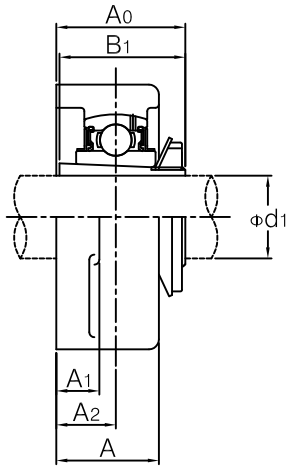


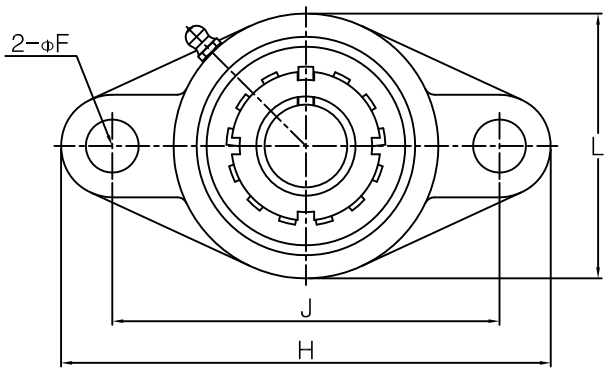
Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	H	L	A	J	F	A1	A2	A0	B	n	Bolt used (mm)	Bolt used (in.)	Bearing No.	Housing No.	Weight (kgf)
UCFL 305 305-16	1	25	5 29/32 150	3 5/32 80	1 5/32 29	4 29/64 113	3/4 19	1/2 13	5/8 16	1 17/32 39	1.4961 38	0.5906 15	16	5/8	UC 305 305-16	FL 305	1.1 1.1
UCFL 306-18 306	1 1/8	30	7 3/32 180	3 17/32 90	1 1/4 32	5 9/32 134	29/32 23	19/32 15	45/64 18	1 23/32 44	1.6929 43	0.6693 17	20	3/4	UC 306-18 306	FL 306	1.5 1.5
UCFL 307-20 307-22 307 307-23	1 1/4 1 3/8 1 7/16	35	7 9/32 185	3 15/16 100	1 13/32 36	5 35/64 141	29/32 23	5/8 16	25/32 20	1 15/16 49	1.8897 48	0.7480 19	20	3/4	UC 307-20 307-22 307 307-23	FL 307	1.8 1.8 1.8 1.8
UCFL 308-24 308	1 1/2	40	7 7/8 200	4 13/32 112	1 9/16 40	6 7/32 158	29/32 23	21/32 17	29/32 23	2 7/32 56	2.0472 52	0.7480 19	20	3/4	UC 308-24 308	FL 308	2.5 2.5
UCFL 309-28 309	1 3/4	45	9 1/16 230	4 29/32 125	1 23/32 44	6 31/32 177	63/64 25	23/32 18	63/64 25	2 3/8 60	2.2441 57	0.8661 22	22	7/8	UC 309-28 309	FL 309	3.5 3.5
UCFL 310-31 310	1 15/16	50	9 7/16 240	5 1/2 140	1 7/8 48	7 23/64 187	63/64 25	3/4 19	1 7/64 28	2 5/8 67	2.4015 61	0.8861 22	22	7/8	UC 310-31 310	FL 310	4.4 4.4
UCFL 311-32 311	2	55	9 27/32 250	5 29/32 150	2 1/16 52	7 53/64 198	63/64 25	25/32 20	1 3/16 30	2 25/32 71	2.5984 66	0.9842 25	22	7/8	UC 311-32 311	FL 311	5.3 5.3
UCFL 312		60	10 5/8 270	6 5/16 160	2 7/32 56	8 11/32 212	1 7/32 31	7/8 22	1 19/64 33	3 1/16 78	2.7953 71	1.0236 26	27	1	UC 312	FL 312	6.5
UCFL 313-40 313	2 1/2	65	11 5/8 295	6 7/8 175	2 9/32 58	9 29/64 240	1 7/32 31	63/64 25	1 19/64 33	3 1/16 78	2.9528 75	1.1811 30	27	1	UC 313-40 313	FL 313	8.5 8.5
UCFL 314-44 314	2 3/4	70	12 13/32 315	7 9/32 185	2 13/32 61	9 27/32 250	1 3/8 35	1 3/32 28	1 27/64 36	3 3/16 81	3.0709 78	1.2992 33	30	1 1/8	UC 314-44 314	FL 314	9.7 9.7
UCFL 315 315-48	3	75	12 19/32 320	7 11/16 195	2 19/32 66	10 15/64 260	1 3/8 35	1 3/16 30	1 17/32 39	3 1/2 89	3.2283 82	1.2598 32	30	1 1/8	UC 315 315-48	FL 315	11.3 11.3
UCFL 316		80	13 31/32 355	8 9/32 210	2 11/16 68	11 7/32 285	1 1/2 38	1 1/4 32	1 1/2 38	3 17/32 90	3.3858 86	1.3386 34	33	1 1/4	UC 316	FL 316	14.4
UCFL 317		85	14 9/16 370	8 21/32 220	2 29/32 74	11 13/16 300	1 1/2 38	1 1/4 32	1 47/64 44	3 15/16 100	3.7795 96	1.5748 40	33	1 1/4	UC 317	FL 317	16.0
UCFL 318-56 318	3 1/2	90	15 5/32 385	9 1/4 235	3 76	12 13/32 315	1 1/2 38	1 13/32 36	1 47/64 44	3 15/16 100	3.7795 96	1.5748 40	33	1 1/4	UC 318-56 318	FL 318	19.0 19.0
UCFL 319		95	15 15/16 405	9 27/32 250	3 11/16 94	13 330	1 39/64 41	1 9/16 40	2 21/64 59	4 3/4 121	4.0551 103	1.6142 41	36	1 3/8	UC 319	FL 319	29.4
UCFL 320 320-64	4	100	17 5/16 440	10 5/8 270	3 11/16 94	14 11/64 360	1 47/64 44	1 9/16 40	2 21/64 59	4 29/32 125	4.2519 108	1.6535 42	39	1 1/2	UC 320 320-64	FL 320	29.4 29.4
UCFL 321		105	17 5/16 440	10 5/8 270	3 11/16 94	14 3/32 360	1 47/64 44	1 9/16 40	2 5/16 59	5 127	4.4094 112	1.7323 44	39	1 1/2	UC 321	FL 321	30.2
UCFL 322		110	18 1/2 470	11 13/16 300	3 25/32 96	15 23/64 390	1 47/64 44	1 21/32 42	2 23/64 60	5 5/32 131	4.6063 117	1.8110 46	39	1 1/2	UC 322	FL 322	36.2
UCFL 324		120	20 15/32 520	13 330	4 11/32 110	16 59/64 430	1 27/32 47	1 7/8 48	2 9/16 65	5 1/2 140	4.9606 126	2.0079 51	42	1 5/8	UC 324	FL 324	51.6
UCFL 326 326-82	5 1/8	130	21 21/32 550	14 3/16 360	4 17/32 115	18 7/64 460	1 27/32 47	1 31/32 50	2 9/16 65	5 3/4 146	5.3150 135	2.1260 54	42	1 5/8	UC 326 326-82	FL 326	61.6 61.6
UCFL 328-88 328	5 1/2	140	23 5/8 600	15 3/4 400	4 29/32 125	19 11/16 500	2 51	2 3/8 60	2 61/64 75	6 11/32 161	5.7086 145	2.3228 59	45	1 3/4	UC 328-88 328	FL 328	68.4 68.4

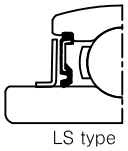
OVAL FLANGE TYPE UNITS

UKFL2

(Tapered bore)





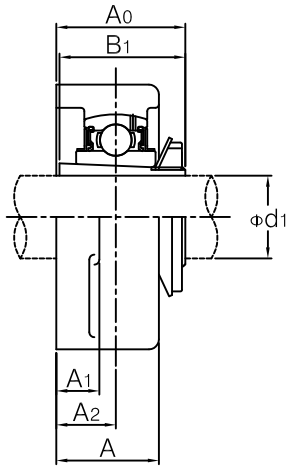


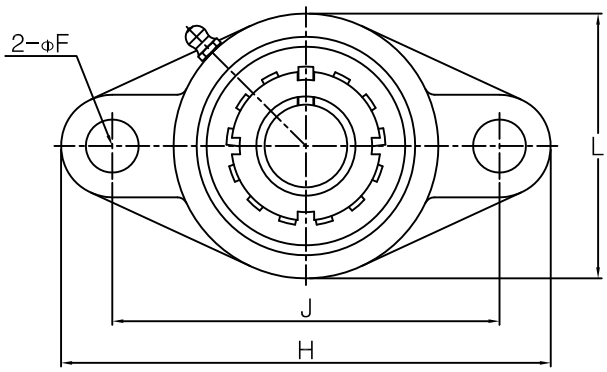
Unit No.	Shaft Dia. d1 (In.)	Shaft Dia. d1 (mm)	Dimensions (in.) (mm) H	L	A	J	F	A1	A2	A0	B1	Bolt used (mm)	Bolt used (In.)	Bearing No.	Housing No.	Adapter used	Weight (kgf)
UKFL 205	3/4	20	5 1/8 130	2 11/16 68	1 1/16 27	3 57/64 99	5/8 16	1/2 13	5/8 16	1 25/64 35.5	1 3/8 35	14	1/2	UK 205	FL 205	HE2305	0.68
205																H 2305	0.68
UKFL 206	7/8															HS2306	0.97
206	15/16		5 13/16 148	3 5/32 80	1 7/32 31	4 39/64 117	5/8 16	1/2 13	45/64 18	1 17/32 39	1 1/2 38	14	1/2	UK 206	FL 206	HA2306	0.97
206		25														H 2306	0.97
206	1															HE2306	0.97
UKFL 207	1 1/8															HS2307	1.3
207		30	6 11/32 161	3 17/32 90	1 11/32 34	5 1/8 130	5/8 16	19/32 15	3/4 19	1 41/64 41.5	1 11/16 43	14	1/2	UK 207	FL 207	H 2307	1.3
207	1 3/16															HA2307	1.3
UKFL 208	1 1/4															HE2308	1.6
208	1 3/8		6 7/8 175	3 15/16 100	1 13/32 36	5 43/64 144	5/8 16	19/32 15	53/64 21	1 51/64 45.5	1 13/16 46	14	1/2	UK 208	FL 208	HS2308	1.6
208		35														H 2308	1.6
UKFL 209	1 7/16															HA2309	2.0
209	1 1/2		7 13/32 188	4 1/4 108	1 1/2 38	5 53/64 148	3/4 19	5/8 16	55/64 22	1 57/64 48	1 31/32 50	16	5/8	UK 209	FL 209	HE2309	2.0
209		40														H 2309	2.0
209	1 5/8															HS2309	2.0
UKFL 210	1 11/16															HA2310	2.3
210	1 3/4		7 3/4 197	4 17/32 115	1 9/16 40	6 3/16 157	3/4 19	5/8 16	55/64 22	1 61/64 49.5	2 5/32 55	16	5/8	UK 210	FL 210	HE2310	2.3
210		45														H 2310	2.3
UKFL 211	1 7/8															HS2311	3.3
211	1 15/16		8 13/16 224	5 1/8 130	1 11/16 43	7 1/4 184	3/4 19	23/32 18	63/64 25	2 1/8 53.5	2 5/16 59	16	5/8	UK 211	FL 211	HA2311	3.3
211		50														H 2311	3.3
211	2															HE2311	3.3
UKFL 212	2 1/8		9 27/32 250	5 1/2 140	1 7/8 48	7 61/64 202	29/32 23	23/32 18	1 9/64 29	2 23/64 60	2 7/16 62	20	3/4	UK 212	FL 212	HS2312	4.1
212		55														H 2312	4.1
UKFL 213	2 3/16															HA2313	5.0
213	2 1/4		10 5/32 258	6 3/32 155	1 31/32 50	8 17/64 210	29/32 23	7/8 22	1 3/16 30	2 31/64 63	2 9/16 65	20	3/4	UK 213	FL 213	HE2313	5.0
213		60														H 2313	5.0
213	2 3/8															HS2313	5.0
UKFL 215	2 7/16															HA2315	6.6
215	2 1/2		10 13/16 275	6 1/2 165	2 7/32 56	8 55/64 225	29/32 23	7/8 22	1 11/32 34	2 47/64 69.5	2 7/8 73	20	3/4	UK 215	FL 215	HE2315	6.6
215		65														H 2315	6.6
UKFL 216	2 11/16															HA2316	8.1
216	2 3/4		11 13/32 290	7 3/32 180	2 9/32 58	9 11/64 233	63/64 25	7/8 22	1 11/32 34	2 7/8 73	3 1/16 78	22	7/8	UK 216	FL 216	HE2316	8.1
216		70														H 2316	8.1
UKFL 217	2 15/16															HA2317	9.9
217		75	12 305	7 15/32 190	2 15/32 63	9 49/64 248	63/64 25	15/16 24	1 27/64 36	3 1/32 77	3 7/32 82	22	7/8	UK 217	FL 217	H 2317	9.9
217	3															HE2317	9.9
UKFL 218		80	12 19/32 320	8 1/16 205	2 11/16 68	10 7/16 265	63/64 25	15/16 24	1 37/64 40	3 1/4 82.5	3 3/8 86	22	7/8	UK 218	FL 218	H 2318	12.2

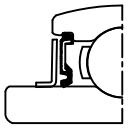
OVAL FLANGE TYPE UNITS

UKFLX

(Tapered bore)





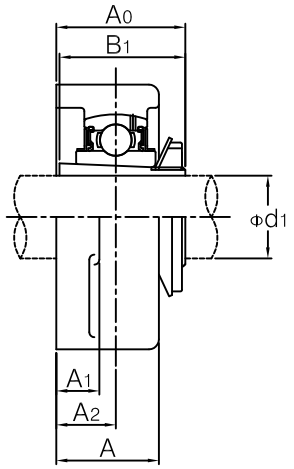


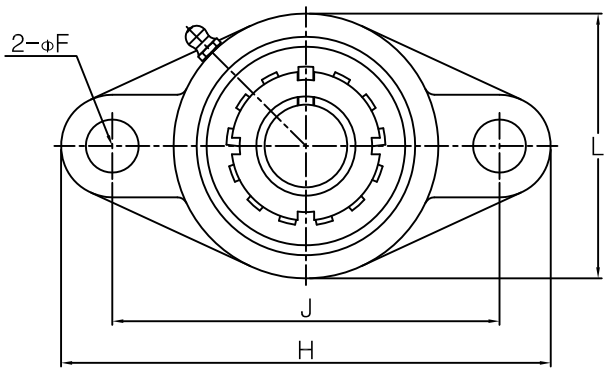
Unit No.	Shaft Dia. d1 (In.)	Shaft Dia. d1 (mm)	H	L	A	J	F	A1	A2	A0	B1	Bolt used (mm)	Bolt used (In.)	Bearing No.	Housing No.	Adapter used	Weight (kgf)
UKFL X05	3/4		5 9/16	3 9/32	1 3/16	4 39/64	15/32	1/2	45/64	1 17/32	1 3/8	10	3/8	UK X05	FL X05	HE2305	1.0
X05		20	141	83	30	117	12	13	18	39	35					H 2305	1.0
UKFL X06	7/8		6 5/32	3 3/4	1 11/32	5 1/8	5/8	19/32	3/4	1 19/32	1 1/2	14	1/2	UK X06	FL X06	HS2306	1.5
X06	15/16		156	95	34	130	16	15	19	40.5	38					HA2306	1.5
X06		25														H 2306	1.5
X06	1															HE2306	1.5
UKFL X07	1 1/8		6 23/32	4 1/8	1 1/2	5 43/64	5/8	5/8	53/64	1 3/4	1 11/16	14	1/2	UK X07	FL X07	HS2307	1.8
X07		30	171	105	38	144	16	16	21	44.5	43					H 2307	1.8
X07	1 3/16															HA2307	1.8
UKFL X08	1 1/4		7 1/16	4 3/8	1 9/16	5 53/64	5/8	5/8	55/64	1 27/32	1 13/16	14	1/2	UK X08	FL X08	HE2308	2.1
X08	1 3/8		179	111	40	148	16	16	22	47	46					HS2308	2.1
X08		35														H 2308	2.1
UKFL X09	1 7/16		7 7/16	4 9/16	1 9/16	6 3/16	5/8	5/8	29/32	1 61/64	1 31/32	14	1/2	UK X09	FL X09	HA2309	2.5
X09	1 1/2		189	116	40	157	16	16	23	49.5	50					HE2309	2.5
X09		40														H 2309	2.5
X09	1 5/8															HS2309	2.5
UKFL X10	1 11/16		8 1/2	5 1/4	1 23/32	7 1/4	3/4	45/64	1 1/32	2 9/64	2 5/32	16	5/8	UK X10	FL X10	HA2310	3.7
X10	1 3/4		216	133	44	184	19	18	26	54.5	55					HE2310	3.7
X10		45														H 2310	3.7

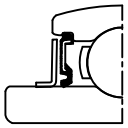
OVAL FLANGE TYPE UNITS

UKFL3

(Tapered bore)





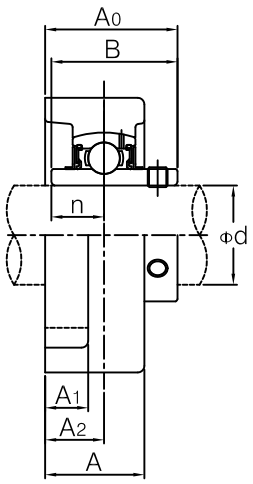


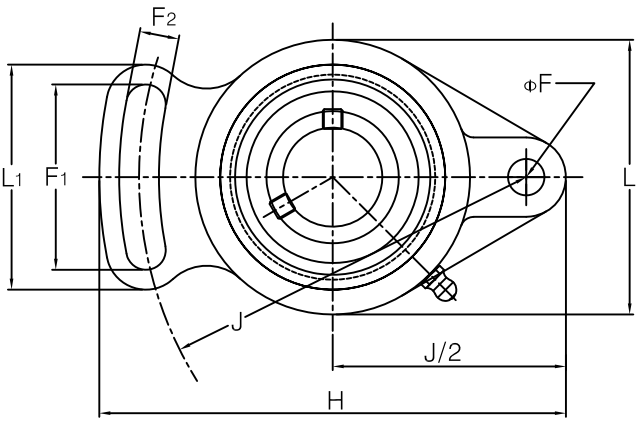
Unit No.	Shaft Dia. d1 (In.)	Shaft Dia. d1 (mm)	H	L	A	J	F	A1	A2	A0	B1	Bolt used (mm)	Bolt used (In.)	Bearing No.	Housing No.	Adapter used	Weight (kgf)
UKFL 305 305	3/4	20	5 29/32 150	3 5/32 80	1 5/32 29	4 29/64 113	3/4 19	1/2 13	5/8 16	1 15/32 37.5	1.3780 35	16	5/8	UK 305	FL 305	HE2305 H 2305	1.1 1.1
UKFL 306 306 306	7/8 1	25	7 3/32 180	3 17/32 90	1 1/4 32	5 9/32 134	29/32 23	19/32 15	45/64 18	1 39/64 41	1.4961 38	20	3/4	UK 306	FL 306	HS2306 H 2306 HE2306	1.5 1.5 1.5
UKFL 307 307 307	1 1/8 1 3/16	30	7 9/32 185	3 15/16 100	1 13/32 36	5 35/64 141	29/32 23	5/8 16	25/32 20	1 3/4 45.5	1.6929 43	20	3/4	UK 307	FL 307	HS2307 H 2307 HA2307	1.8 1.8 1.8
UKFL 308 308 308	1 1/4 1 3/8	35	7 7/8 200	4 13/32 112	1 9/16 40	6 7/32 158	29/32 23	21/32 17	29/32 23	1 63/64 50.5	1.8110 46	20	3/4	UK 308	FL 308	HE2308 HS2308 H 2308	2.5 2.5 2.5
UKFL 309 309 309	1 1/2 1 5/8	40	9 1/16 230	4 29/32 125	1 23/32 44	6 31/32 177	63/64 25	23/32 18	63/64 25	2 11/64 55	1.9685 50	22	7/8	UK 309	FL 309	HE2309 H 2309 HS2309	3.5 3.5 3.5
UKFL 310 310 310	1 11/16 1 3/4	45	9 7/16 240	5 1/2 140	1 7/8 48	7 23/64 187	63/64 25	3/4 19	1 7/64 28	2 23/64 60	2.1654 55	22	7/8	UK 310	FL 310	HA2310 HE2310 H 2310	4.4 4.4 4.4
UKFL 311 311 311	1 7/8 2	50	9 27/32 250	5 29/32 150	2 1/16 52	7 51/64 198	63/64 25	25/32 20	1 3/16 30	2 1/2 63.5	2.3228 59	22	7/8	UK 311	FL 311	HS2311 H 2311 HE2311	5.3 5.3 5.3
UKFL 312 312	2 1/8	55	10 5/8 270	6 5/16 160	2 7/32 56	8 11/32 212	1 7/32 31	7/8 22	1 19/64 33	2 23/32 69	2.4409 62	27	1	UK 312	FL 312	HS2312 H 2312	6.5 6.5
UKFL 313 313 313	2 1/4 2 3/8	60	11 5/8 295	6 7/8 175	2 9/32 58	9 29/64 240	1 7/32 31	63/64 25	1 19/64 33	2 51/64 71	2.5591 65	27	1	UK 313	FL 313	HE2313 H 2313 HS2313	8.5 8.5 8.5
UKFL 315 315	2 1/2	65	12 19/32 320	7 11/16 195	2 19/32 66	10 15/64 260	1 3/8 35	1 3/16 30	1 17/32 39	3 3/16 81	2.8740 73	30	1 1/8	UK 315	FL 315	HE2315 H 2315	11.3 11.3
UKFL 316 316	2 3/4	70	13 31/32 355	8 9/32 210	2 11/16 68	11 7/32 285	1 1/2 38	1 1/4 32	1 1/2 38	3 9/32 83.5	3.0709 78	33	1 1/4	UK 316	FL 316	HE2316 H 2316	14.4 14.4
UKFL 317 317	3	75	14 9/16 370	8 21/32 220	2 29/32 74	11 13/16 300	1 1/2 38	1 1/4 32	1 47/64 44	3 5/8 92	3.2283 82	33	1 1/4	UK 317	FL 317	H 2317 HE2317	16.0 16.0
UKFL 318		80	15 5/32 385	9 1/4 235	3 76	12 13/32 315	1 1/2 38	1 13/32 36	1 47/64 44	3 11/16 93.5	3.3858 86	33	1 1/4	UK 318	FL 318	H 2318	19.0
UKFL 319 319	3 1/4	85	15 15/16 405	9 27/32 250	3 11/16 94	13 330	1 39/64 41	1 9/16 40	2 21/64 59	4 3/8 111	3.5433 90	36	1 3/8	UK 319	FL 319	HE2319 H 2319	24.6 24.6
UKFL 320 320	3 1/2	90	17 5/16 440	10 5/8 270	3 11/16 94	14 11/64 360	1 47/64 44	1 9/16 40	2 21/64 59	4 31/64 114	3.8189 97	39	1 1/2	UK 320	FL 320	HE2320 H 2320	29.4 29.4
UKFL 322 322	4	100	18 1/2 470	11 13/16 300	3 25/32 96	15 23/64 390	1 47/64 44	1 21/32 42	2 23/64 60	4 49/64 121	4.1339 105	39	1 1/2	UK 322	FL 322	H 2322 HE2322	36.2 36.2
UKFL 324 324	4 7/16	110	20 15/32 520	13 330	4 11/32 110	16 59/64 430	1 27/32 47	1 7/8 48	2 9/16 65	5 1/8 130	4.4094 112	42	1 5/8	UK 324	FL 324	H 2324 HA2324	51.6 51.6
UKFL 326 326	4 1/2	115	21 21/32 550	14 3/16 360	4 17/32 115	18 7/64 460	1 27/32 47	1 31/32 50	2 9/16 65	5 9/32 134	4.7638 121	42	1 5/8	UK 326	FL 326	HE2326 H 2326	61.6 61.6
UKFL 328 328	4 15/16	125	23 5/8 600	15 3/4 400	4 29/32 125	19 11/16 500	2 51	2 3/8 60	2 61/64 75	5 53/64 148	5.1575 131	45	1 3/4	UK 328	FL 328	HE2328 H 2328	68.4 68.4

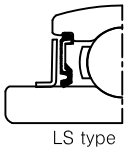
OVAL FLANGE A TYPE UNITS

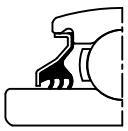
UCFA2

(Cylindrical bore)






LS type

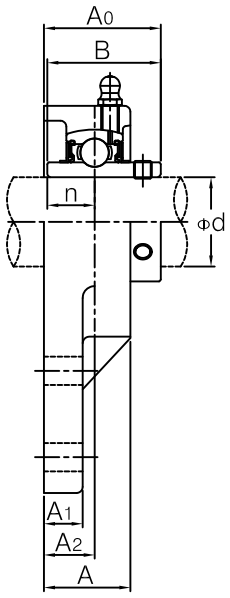

L3 type

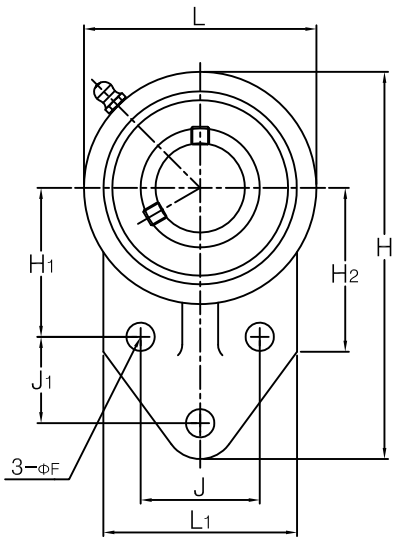
Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	H	L	A	J	F	F1	F2	A1	A2	A0	B	n	Bolt used (mm)	Bolt used (in.)	Bearing No.	Housing No.	Weight (kgf)
UCFA 201		12															UC 201		0.47
201-8	1/2																201-8		0.47
202		15															202		0.45
202-10	5/8		3 27/32	2 3/8	1	3 5/64	25/64	1 9/16	25/64	15/32	19/32	1 5/16	1.2205	0.5000	10	3/8	202-10	FA 204	0.45
203		17	98	60	25.4	78	10	40	10	12	15	33.3	31	12.7			203		0.44
203-11	11/16																203-11		0.44
204-12	3/4																204-12		0.42
204		20															204		0.42
UCFA 205-13	13/16																UC 205-13		0.68
205-14	7/8																205-14		0.68
205-15	15/16		4 7/8	2 3/4	1 1/16	3 25/32	1/2	1 15/16	1/2	1/2	5/8	1 13/32	1.3425	0.5630	10	3/8	205-15	FA 205	0.68
205		25	124	70	27	96	13	49	13	13	16	35.8	34.1	14.3			205		0.68
205-16	1																205-16		0.68
UCFA 206-17	1 1/16																UC 206-17		1.0
206-18	1 1/8																206-18		1.0
206		30	5 21/32	3 1/8	1 7/32	4 39/64	35/64	2 3/16	35/64	35/64	45/64	1 37/64	1.5000	0.6260	10	3/8	206	FA 206	1.0
206-19	1 3/16		144	79	31	117	13	56	14	14	18	40.2	38.1	15.9			206-19		1.0
206-20	1 1/4																206-20		1.0
UCFA 207-20	1 1/4																UC 207-20		1.5
207-21	1 5/16																207-21		1.5
207-22	1 3/8		6 5/16	3 15/32	1 11/32	5 1/8	19/32	2 9/16	19/32	5/8	3/4	1 3/4	1.6890	0.6890	12	7/16	207-22	FA 207	1.5
207		35	160	88	34	130	15	65	15	16	19	44.4	42.9	17.5			207		1.5
207-23	1 7/16																207-23		1.5
UCFA 208-24	1 1/2																UC 208-24		1.9
208-25	1 9/16																208-25		1.9
208		40	6 27/32	3 29/32	1 13/32	5 19/32	19/32	2 23/32	19/32	5/8	13/16	2 1/64	1.9370	0.7480	12	7/16	208	FA 208	1.9
UCFA 209-26	1 5/8		174	99	36	142	15	69	15	16	21	51.2	49.2	19			UC 209-26		1.7
209-27	1 11/16																209-27		1.7
209-28	1 3/4		7 3/32	4 3/8	1 1/2	5 53/64	21/32	2 3/4	21/32	45/64	7/8	2 1/16	1.9370	0.7480	14	1/2	209-28	FA 209	1.7
209		45	180	111	38	148	17	70	17	18	22	52.2	49.2	19			209		1.7
UCFA 210-29	1 13/16																UC 210-29		2.0
210-30	1 7/8																210-30		2.0
210-31	1 15/16		7 15/32	4 9/16	1 9/16	6 3/16	21/32	2 29/32	21/32	45/64	7/8	2 5/32	2.0315	0.7480	14	1/2	210-31	FA 210	2.0
210		50	190	116	40	157	17	74	17	18	22	54.6	51.6	19			210		2.0
210-32	2																210-32		2.0
UCFA 211-31	1 15/16																UC 211-31		3.6
211-32	2																211-32		3.6
211-34	2 1/8		8 19/32	5 1/4	1 11/16	7 1/4	21/32	3 5/16	21/32	25/32	63/64	2 19/64	2.1890	0.8740	15	9/16	211-34	FA 211	3.6
211		55	218	133	43	184	17	84	17	20	25	58.4	55.6	22.2			211		3.6
211-35	2 3/16																211-35		3.6

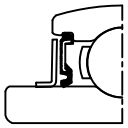
OVAL FLANGE B TYPE UNITS

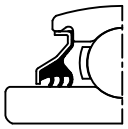
UCFB2

(Cylindrical bore)






LS type


L3 type

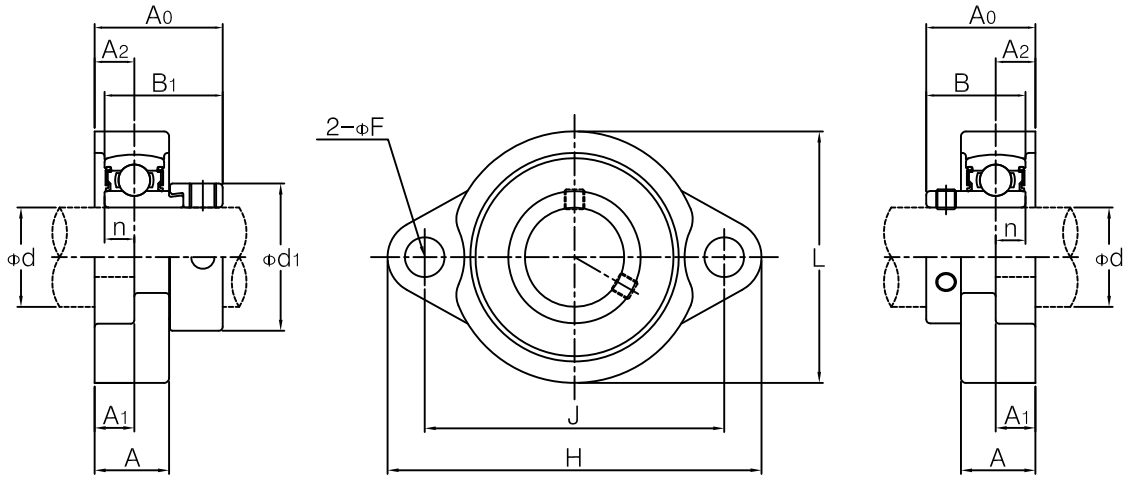
Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	H	L	A	J	J1	F	H1	H2	L1	A1	A2	A0	B	n	Bolt used (mm)	Bolt used (in.)	Bearing No.	Housing No.	Weight (kgf)
UCFB 201		12	4 11/32	2 7/16	15/16	1 17/64	1 1/16	3/8	1 21/32	2 1/16	2 1/16	1/2	17/32	1 1/4	1.2205	0.5000	8	5/16	UC 201	FB 204	0.64
201-8	1/2		110	62	24	32	27	9.5	42	52	52	13	13.5	31.8	31	12.7			201-8		0.64
202		15																	202		0.62
202-10	5/8																		202-10		0.62
203		17																	203		0.61
203-11	11/16																		203-11		0.61
204-12	3/4																		204-12		0.59
204		20																	204		0.59
UCFB 205-13	13/16		4 9/16	2 11/16	1 1/32	1 11/32	1 1/16	3/8	1 49/64	2 1/16	2 7/32	1/2	19/32	1 3/8	1.3425	0.5630	8	5/16	UC 205-13	FB 205	0.68
205-14	7/8		116	68	26	34	27	9.5	45	52	56	13	15	34.8	34.1	14.3			205-14		0.68
205-15	15/16																		205-15		0.68
205		25																	205		0.68
205-16	1																		205-16		0.68
UCFB 206-17	1 1/16		5 1/8	3 1/16	1 5/32	1 37/64	1 9/64	3/8	1 31/32	2 5/32	2 9/16	1/2	43/64	1 17/32	1.5000	0.6260	8	5/16	UC 206-17	FB 206	0.92
206-18	1 1/8		130	78	29	40	29	9.5	50	55	65	13	17	39.2	38.1	15.9			206-18		0.92
206		30																	206		0.92
206-19	1 3/16																		206-19		0.92
206-20	1 1/4																		206-20		0.92
UCFB 207-20	1 1/4		5 21/32	3 17/32	1 5/16	1 13/16	1 17/64	3/8	2 11/64	2 7/16	2 3/4	19/32	3/4	1 3/4	1.6890	0.6890	8	5/16	UC 207-20	FB 207	1.3
207-21	1 5/16		144	90	33	46	32	9.5	55	62	70	15	19	44.4	42.9	17.5			207-21		1.3
207-22	1 3/8																		207-22		1.3
207		35																	207		1.3
207-23	1 7/16																		207-23		1.3
UCFB 208-24	1 1/2		6 15/32	3 15/16	1 11/32	1 31/32	1 39/64	15/32	2 23/64	2 27/32	3 1/16	5/8	13/16	2 1/64	1.9370	0.7480	10	3/8	UC 208-24	FB 208	1.8
208-25	1 9/16		164	100	34	50	41	12	60	72	78	16	21	51.2	49.2	19			208-25		1.8
208		40																	208		1.8
UCFB 209-26	1 5/8		6 27/32	4 3/16	1 11/32	2 1/8	1 11/16	15/32	2 9/16	3	3 5/32	23/32	13/16	2 1/64	1.9370	0.7480	10	3/8	UC 209-26	FB 209	2.0
209-27	1 11/16		174	106	34	54	43	12	65	76	80	18	21	51.2	49.2	19			209-27		2.0
209-28	1 3/4																		209-28		2.0
209		45																	209		2.0
UCFB 210-29	1 13/16		7 1/4	4 13/32	1 3/8	2 9/32	1 13/16	15/32	2 43/64	3 7/32	3 3/8	23/32	13/16	2 7/64	2.0315	0.7480	10	3/8	UC 210-29	FB 210	2.3
210-30	1 7/8		184	112	35	58	46	12	68	82	86	18	21	53.6	51.6	19			210-30		2.3
210-31	1 15/16																		210-31		2.3
210		50																	210		2.3
210-32	2																		210-32		2.3

OVAL FLANGE L TYPE UNITS

SALF2 SBLF2

(Cylindrical bore)

SALF2(With eccentric locking collar), SBLF2(Set screw locking)

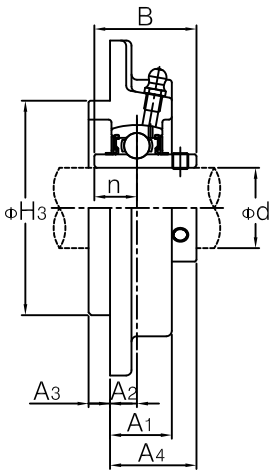


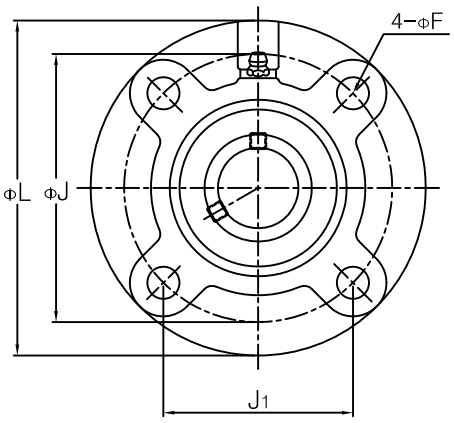
Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	Dimensions (in.) (mm) H	L	A	J	F	A1	A2	n	Bolt used (mm)	Bolt used (in.)	S A L F A0	B1	d1	Bearing No.	Weight (kgf)	S B L F A0	B	Bearing No.	Weight (kgf)	Housing No.
SALF SBLF 201		12	3 3/16	2 7/32	23/32	2 1/2	5/16	3/8	3/8	0.2560	6	1/4	1 1/4	1.1260	1.1260	SA 201	0.28			SB 201	0.36	
201-8	1/2		81	56.4	18	63.5	8	9.5	9.5	6.5			31.6	28.6	28.6	201-8	0.28			201-8	0.36	
202		15														202	0.28	1	0.8858	202	0.36	
202-10	5/8															202-10	0.28	25.5	22.5	202-10	0.36	LF 203
203		17														203	0.28			203	0.36	
203-11	11/16															203-11	0.28			203-11	0.36	
SALF SBLF 204-12	3/4		3 17/32	2 13/32	25/32	2 13/16	25/64	7/16	7/16	0.2953	8	5/16	1 3/8	1.2204	1.3110	SA 204-12	0.33	1 5/32	1.0039	SB 204-12	0.33	
204		20	90	61	20	71.4	10	11	11	7.5			34.5	31	33.3	204	0.33	29	25.5	204	0.33	LF 204
SALF SBLF 205-13	13/16															SA 205-13	0.42			SB 205-13	0.38	
205-14	7/8		3 3/4	2 17/32	25/32	2 63/64	25/64	7/16	7/16	0.2953	8	5/16	1 11/32	1.2204	1.5000	205-14	0.42			205-14	0.38	
205-15	15/16		95	64	20	76	10	11	11	7.5			34.5	31	38.1	205-15	0.42	1 3/16	1.0630	205-15	0.38	
205		25														205	0.42	30.5	27	205	0.38	LF 205
205-16	1															205-16	0.42			205-16	0.38	
SALF SBLF 206-17	1 1/16															SA 206-17	0.60			SB 206-17	0.57	
206-18	1 1/8		4 7/16	3	7/8	3 9/16	15/32	15/32	15/32	0.3543	10	3/8	1 9/16	1.4055	1.7519	206-18	0.60			206-18	0.57	
206		30	113	76	22	90.5	12	12	12	9			39.7	35.7	44.5	206	0.60	1 11/32	1.1811	206	0.57	LF 206
206-19	1 3/16															206-19	0.60	34	30	206-19	0.57	
206-20	1 1/4															206-20	0.60			206-20	0.57	
SALF SBLF 207-20	1 1/4															SA 207-20	0.85			SB 207-20	0.77	
207-21	1 5/16		4 13/16	3 1/2	15/16	3 15/16	15/32	1/2	1/2	0.3740	10	3/8	1 11/16	1.5315	2.1890	207-21	0.85			207-21	0.77	
207-22	1 3/8		122	89	24	100	12	13	13	9.5			42.4	38.9	55.6	207-22	0.85	1 33/64	1.3780	207-22	0.77	
207		35														207	0.85	38.5	35	207	0.77	LF 207
207-23	1 7/16															207-23	0.85			207-23	0.77	

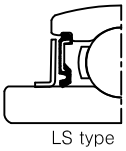
ROUND FLANGE TYPE UNITS

UCFC2

(Cylindrical bore)






LS type

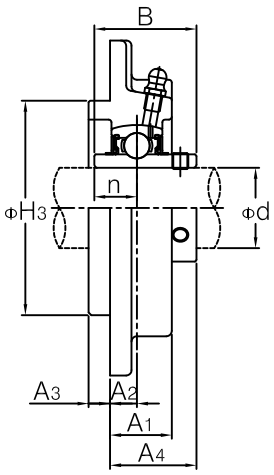

L3 type

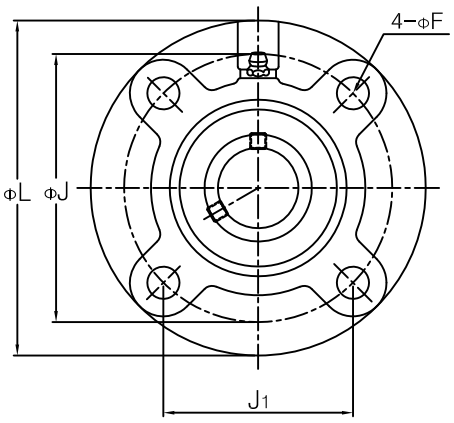
Unit No.	Shaft Dia. d (In.)	Shaft Dia. d (mm)	L	H3	J	J1	F	A1	A2	A3	A4	B	n	Bolt used (mm)	Bolt used (in.)	Bearing No.	Housing No.	Weight (kgf)
UCFC 201		12	3 15/16	2 7/16	3 5/64	2 11/64	15/32	13/16	13/32	13/64	1 1/8	1.2205	0.5000	10	3/8	UC 201	FC 204	0.78
201-8	1/2		100	62	78	55.1	12	20.5	10	5	28.3	31	12.7			201-8		0.78
202		15														202		0.78
202-10	5/8															202-10		0.78
203		17														203		0.78
203-11	11/16															203-11		0.78
204-12	3/4															204-12		0.78
204		20														204		0.78
UCFC 205-13	13/16		4 17/32	2 3/4	3 35/64	2 1/2	15/32	13/16	13/32	15/64	1 11/64	1.3425	0.5630	10	3/8	UC 205-13	FC 205	0.95
205-14	7/8		115	70	90	63.6	12	21	10	6	29.8	34.1	14.3			205-14		0.95
205-15	15/16															205-15		0.95
205		25														205		0.95
205-16	1															205-16		0.95
UCFC 206-17	1 1/16		4 29/32	3 5/32	3 15/16	2 25/32	15/32	29/32	13/32	5/16	1 9/32	1.5000	0.6260	10	3/8	UC 206-17	FC 206	1.3
206-18	1 1/8		125	80	100	70.7	12	23	10	8	32.2	38.1	15.9			206-18		1.3
206		30														206		1.3
206-19	1 3/16															206-19		1.3
206-20	1 1/4															206-20		1.3
UCFC 207-20	1 1/4		5 5/16	3 35/64	4 21/64	3 1/16	35/64	1 1/32	7/16	5/16	1 7/16	1.6890	0.6890	12	7/16	UC 207-20	FC 207	1.7
207-21	1 5/16		135	90	110	77.8	14	26	11	8	36.4	42.9	17.5			207-21		1.7
207-22	1 3/8															207-22		1.7
207		35														207		1.7
207-23	1 7/16															207-23		1.7
UCFC 208-24	1 1/2		5 23/32	3 15/16	4 23/32	3 11/32	35/64	1 1/32	7/16	25/64	1 5/8	1.9370	0.7480	12	7/16	UC 208-24	FC 208	2.0
208-25	1 9/16		145	100	120	84.8	14	26	11	10	41.2	49.2	19			208-25		2.0
208		40														208		2.0
UCFC 209-26	1 5/8		6 5/16	4 1/8	5 13/64	3 43/64	5/8	1 1/32	13/32	15/32	1 19/32	1.9370	0.7480	14	1/2	UC 209-26	FC 209	2.6
209-27	1 11/16		160	105	132	93.3	16	26	10	12	40.2	49.2	19			209-27		2.6
209-28	1 3/4															209-28		2.6
209		45														209		2.6
UCFC 210-29	1 13/16		6 1/2	4 11/32	5 7/16	3 27/32	5/8	1 3/32	13/32	15/32	1 11/16	2.0315	0.7480	14	1/2	UC 210-29	FC 210	2.9
210-30	1 7/8		165	110	138	97.6	16	28	10	12	42.6	51.6	19			210-30		2.9
210-31	1 15/16															210-31		2.9
210		50														210		2.9
210-32	2															210-32		2.9
UCFC 211-31	1 15/16		7 9/32	4 29/32	5 29/32	4 11/64	3/4	1 7/32	33/64	15/32	1 13/16	2.1890	0.8740	16	5/8	UC 211-31	FC 211	4.2
211-32	2		185	125	150	106.1	19	31	13	12	46.4	55.6	22.2			211-32		4.2
211-34	2 1/8															211-34		4.2
211		55														211		4.2
211-35	2 3/16															211-35		4.2
UCFC 212-36	2 1/4		7 11/16	5 5/16	6 19/64	4 29/64	3/4	1 13/32	43/64	15/32	2 7/32	2.5630	1.0000	16	5/8	UC 212-36	FC 212	5.0
212-37	2 5/16		195	135	160	113.1	19	36	17	12	56.7	65.1	25.4			212-37		5.0
212		60														212		5.0
212-38	2 3/8															212-38		5.0
212-39	2 7/16															212-39		5.0
UCFC 213-40	2 1/2		8 1/16	5 23/32	6 11/16	4 47/64	3/4	1 27/64	5/8	35/64	2 3/16	2.5630	1.0000	16	5/8	UC 213-40	FC 213	5.6
213		65	205	145	170	120.2	19	36	16	14	55.7	65.1	25.4			213		5.6
UCFC 214-43	2 11/16		8 15/32	5 29/32	6 31/32	4 59/64	3/4	1 9/16	43/64	35/64	2 13/32	2.9370	1.1890	16	5/8	UC 214-43	FC 214	6.8
214-44	2 3/4		215	150	177	125.1	19	40	17	14	61.4	74.6	30.2			214-44		6.8
214		70														214		6.8
UCFC 215-46	2 7/8		8 21/32	6 5/16	7 1/4	5 1/8	3/4	1 9/16	45/64	5/8	2 15/32	3.0630	1.3110	16	5/8	UC 215-46	FC 215	7.2
215-47	2 15/16		220	160	184	130.1	19	40	18	16	62.5	77.8	33.3			215-47		7.2
215		75														215		7.2
215-48	3															215-48		7.2
UCFC 216		80	9 7/16	6 11/16	7 7/8	5 9/16	29/32	1 21/32	45/64	5/8	2 21/32	3.2520	1.3110	20	3/4	UC 216	FC 216	8.7
			240	170	200	141.4	23	42	18	16	67.3	82.6	33.3					
UCFC 217-52	3 1/4		9 27/32	7 3/32	8 3/16	5 51/64	29/32	1 25/32	45/64	45/64	2 3/4	3.3740	1.3425	20	3/4	UC 217-52	FC 217	10.3
217		85	250	180	208	147.1	23	45	18	18	69.6	85.7	34.1			217		10.3
UCFC 218-56	3 1/2		10 7/16	7 15/32	8 21/32	6 1/8	29/32	1 31/32	55/64	45/64	3 3/32	3.7795	1.5630	20	3/4	UC 218-56	FC 218	13.3
218		90	265	190	220	155.5	23	50	22	18	78.3	96	39.7			218		13.3

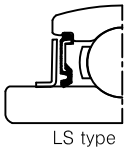
ROUND FLANGE TYPE UNITS

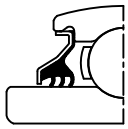
UCFCX

(Cylindrical bore)






LS type

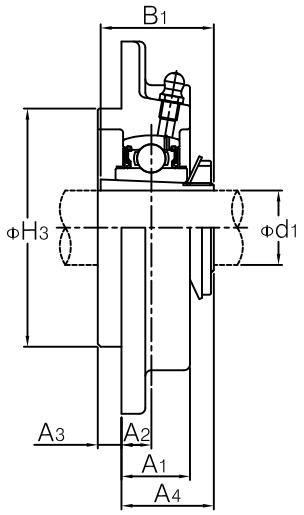

L3 type

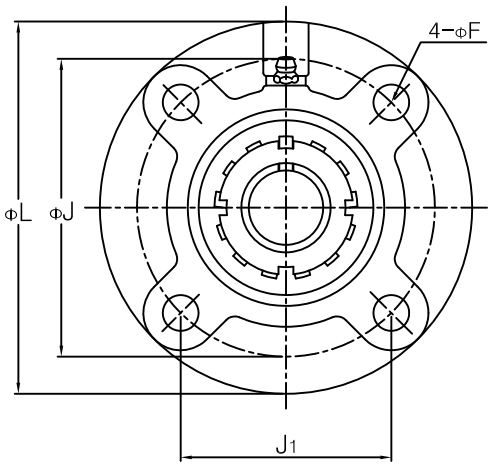
Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	Dimensions (in.) (mm) L	H3	J	J1	F	A1	A2	A3	A4	B	n	Bolt used (mm)	Bolt used (in.)	Bearing No.	Housing No.	Weight (kgf)
UCFC X05-13	13/16															UC X05-13		1.2
X05-14	7/8															X05-14		1.2
X05-15	15/16		4 3/8	3	3 5/8	2 9/16	3/8	15/16	13/32	15/64	1 9/32	1.5000	0.6260	8	5/16	X05-15	FC X05	1.2
X05		25	111	76	92	65	9.5	24	10	6	32.2	38.1	15.9			X05		1.2
X05-16	1															X05-16		1.2
UCFC X06-17	1 1/16															UC X06-17		1.5
X06-18	1 1/8															X06-18		1.5
X06		30	5	3 11/32	4 9/64	2 59/64	15/32	7/8	5/16	3/8	1 5/16	1.6890	0.6890	10	3/8	X06	FC X06	1.5
X06-19	1 3/16		127	85	105	74.2	12	22.5	8	9.5	33.4	42.9	17.5			X06-19		1.5
X06-20	1 1/4															X06-20		1.5
UCFC X07-20	1 1/4															UC X07-20		1.9
X07-21	1 5/16															X07-21		1.9
X07-22	1 3/8		5 1/4	3 5/8	4 3/8	3 3/32	15/32	1 1/32	23/64	7/16	1 17/32	1.9370	0.7480	10	3/8	X07-22	FC X07	1.9
X07		35	133	92	111	78.5	12	26	9	11	39.2	49.2	19			X07		1.9
X07-23	1 7/16															X07-23		1.9
UCFC X08-24	1 1/2															UC X08-24		2.0
X08-25	1 9/16		5 1/4	3 5/8	4 3/8	3 3/32	15/32	1 1/32	23/64	7/16	1 17/32	1.9370	0.7480	10	3/8	X08-25	FC X08	2.0
X08		40	133	92	111	78.5	12	26	9	11	39.2	49.2	19			X08		2.0
UCFC X09-26	1 5/8															UC X09-26		2.6
X09-27	1 11/16															X09-27		2.6
X09-28	1 3/4		6 3/32	4 1/4	5 1/8	3 5/8	35/64	63/64	5/16	15/32	1 19/32	2.0315	0.7480	12	7/16	X09-28	FC X09	2.6
X09		45	155	108	130	91.9	14	25	8	12	40.6	51.6	19			X09		2.6
UCFC X10-30	1 7/8															UC X10-30		3.2
X10-31	1 15/16															X10-31		3.2
X10		50	6 3/8	4 41/64	5 23/64	3 25/32	35/64	63/64	9/32	5/8	1 19/32	2.1890	0.8740	12	7/16	X10	FC X10	3.2
X10-32	2		162	118	136	96.2	14	25	7	16	40.4	55.6	22.2			X10-32		3.2
UCFC X11-31	1 15/16															UC X11-31		4.3
X11-32	2															X11-32		4.3
X11-34	2 1/8		7 3/32	5	5 63/64	4 15/64	5/8	1 1/32	5/32	55/64	1 23/32	2.5630	1.0000	14	1/2	X11-34	FC X11	4.3
X11		55	180	127	152	107.5	16	26	4	22	43.7	65.1	25.4			X11		4.3
X11-35	2 3/16															X11-35		4.3
UCFC X12-36	2 1/4															UC X12-36		5.3
X12		60														X12		5.3
X12-37	2 5/16		7 5/8	5 1/2	6 1/2	4 19/32	5/8	1 5/16	7/16	25/32	2	2.5630	1.0000	14	1/2	X12-37	FC X12	5.3
X12-38	2 3/8		194	140	165	116.7	16	33	11	20	50.7	65.1	25.4			X12-38		5.3
X12-39	2 7/16															X12-39		5.3
UCFC X13-40	2 1/2		7 5/8	5 1/2	6 1/2	4 19/32	5/8	1 5/16	7/16	25/32	2 3/16	2.9370	1.1890	14	1/2	UC X13-40	FC X13	5.7
X13		65	194	140	165	116.7	16	33	11	20	55.4	74.6	30.2			X13		5.7
UCFC X14-43	2 11/16															UC X14-43		7.3
X14-44	2 3/4		8 3/4	6 15/32	7 31/64	5 9/32	3/4	1 13/32	35/64	25/32	2 5/16	3.0630	1.3110	16	5/8	X14-44	FC X14	7.3
X14		70	222	164	190	134.3	19	36	14	20	58.5	77.8	33.3			X14		7.3
UCFC X15-47	2 15/16															UC X15-47		8
X15		75	8 3/4	6 15/32	7 31/64	5 9/32	3/4	1 3/8	15/32	55/64	2 13/32	3.2520	1.3110	16	5/8	X15	FC X15	8
X15-48	3		222	164	190	134.3	19	35	12	22	61.3	82.6	33.3			X15-48		8
UCFC X16		80	10 1/4	7 5/16	8 5/8	6 3/32	29/32	1 13/32	13/32	63/64	2 7/16	3.3740	1.3425	20	3/4	UC X16	FC X16	11.3
			260	186	219	154.8	23	36	10	25	61.6	85.7	34.1					11.3
UCFC X17		85	10 1/4	7 5/16	8 5/8	6 3/32	29/32	1 13/32	13/32	63/64	2 5/8	3.7795	1.5630	20	3/4	UC X17	FC X17	12.9
X17-52	3 1/4		260	186	219	154.8	23	36	10	25	66.3	96	39.7			X17-52		12.9
X17-55	3 7/16															X17-55		12.9
UCFC X18-56	3 1/2		10 1/4	7 5/16	8 5/8	6 3/32	29/32	1 11/16	15/32	1 3/32	2 7/8	4.0945	1.7000	20	3/4	UC X18-56	FC X18	13.5
X18		90	260	186	219	154.8	23	43	12	28	73.1	104	42.9			X18		13.5
UCFC X20		100	10 7/8	8 1/8	9 3/8	6 5/8	29/32	2 19/32	7/8	1 3/32	3 9/16	4.6260	1.9370	20	3/4	UC X20	FC X20	18.2
X20-63	3 15/16		276	206	238	168.3	23	66	22	28	90.3	117.5	49.2			X20-63		18.2
X20-64	4															X20-64		18.2

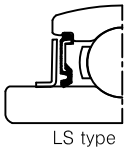
ROUND FLANGE TYPE UNITS

UKFC2

(Tapered bore)





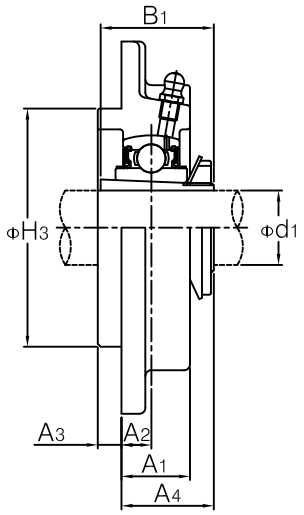


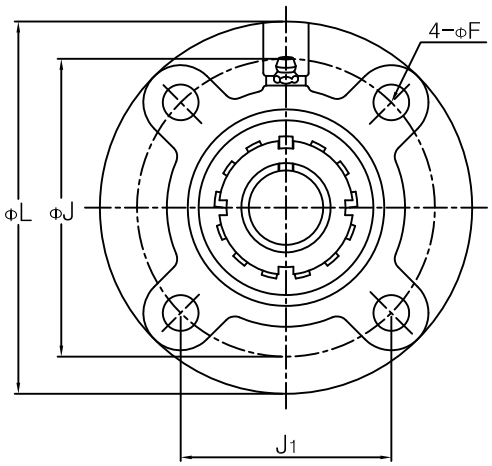
Unit No.	Shaft Dia. d1 (in.)	Shaft Dia. d1 (mm)	Dimensions (in.) (mm) L	H3	J	J1	F	A1	A2	A3	A4	B1	Bolt used (mm)	Bolt used (in.)	Bearing No.	Housing No.	Adapter used	Weight (kgf)
UKFC 205	3/4		4 17/32	2 3/4	3 35/64	2 1/2	15/32	13/16	13/32	15/64	1 5/32	1 3/8					HE2305	0.99
205		20	115	70	90	63.6	12	21	10	6	29.5	35	10	4/8	UK 205	FC 205	H 2305	0.99
UKFC 206	7/8																HS2306	1.3
206	15/16		4 29/32	3 5/32	3 15/16	2 25/32	15/32	29/32	13/32	5/16	1 7/32	1 1/2					HA2306	1.3
206		25	125	80	100	70.7	12	23	10	8	31	38	10	4/8	UK 206	FC 206	H 2306	1.3
206	1																HE2306	1.3
UKFC 207	1 1/8																HS2307	1.7
207			5 5/16	3 35/64	4 21/64	3 1/16	35/64	1 1/32	7/16	5/16	1 5/16	1 11/16					H 2307	1.7
207	1 3/16	30	135	90	110	77.8	14	26	11	8	33.5	43	12	7/16	UK 207	FC 207	HA2307	1.7
UKFC 208	1 1/4																HE2308	2.0
208	1 3/8		5 23/32	3 15/16	4 23/32	3 11/32	35/64	1 1/32	7/16	13/32	1 25/64	1 13/16					HS2308	2.0
208		35	145	100	120	84.8	14	26	11	10	35.5	46	12	7/16	UK 208	FC 208	H 2308	2.0
UKFC 209	1 7/16																HA2309	2.7
209	1 1/2		6 5/16	4 1/8	5 13/64	3 43/64	5/8	1 1/32	13/32	15/32	1 27/64	1 31/32					HE2309	2.7
209		40	160	105	132	93.3	16	26	10	12	36	50	14	1/2	UK 209	FC 209	H 2309	2.7
209	1 5/8																HS2309	2.7
UKFC 210	1 11/16																HA2310	3.0
210	1 3/4		6 1/2	4 11/32	5 7/16	3 27/32	5/8	1 3/32	13/32	15/32	1 15/32	2 5/32					HE2310	3.0
210		45	165	110	138	97.6	16	28	10	12	37.5	55	14	1/2	UK 210	FC 210	H 2310	3.0
UKFC 211	1 7/8																HS2311	4.3
211	1 15/16		7 9/32	4 29/32	5 29/32	4 11/64	3/4	1 7/32	33/64	15/32	1 5/8	2 5/16					HA2311	4.3
211		50	185	125	150	106.1	19	31	13	12	41.5	59	16	5/8	UK 211	FC 211	H 2311	4.3
211	2																HE2311	4.3
UKFC 212	2 1/8																HS2312	4.9
212		55	7 11/16	5 5/16	6 19/64	4 29/64	3/4	1 13/32	43/64	15/32	1 57/64	2 7/16	16	5/8	UK 212	FC 212	H 2312	4.9
UKFC 213	2 3/16																HA2313	5.5
213	2 1/4		8 1/16	5 23/32	6 11/16	4 47/64	3/4	1 13/32	5/8	35/64	1 59/64	2 9/16					HE2313	5.5
213		60	205	145	170	120.2	19	36	16	14	49	65	16	5/8	UK 213	FC 213	H 2313	5.5
213	2 3/8																HS2313	5.5
UKFC 215	2 7/16																HA2315	7.4
215	2 1/2		8 21/32	6 5/16	7 1/4	5 1/8	3/4	1 9/16	45/64	5/8	2 7/64	2 7/8					HE2315	7.4
215		65	220	160	184	130.1	19	40	18	16	53.5	73	16	5/8	UK 215	FC 215	H 2315	7.4
UKFC 216	2 11/16																HA2316	9.0
216	2 3/4		9 7/16	6 11/16	7 7/8	5 9/16	29/32	1 21/32	45/64	5/8	2 1/4	3 1/16					HE2316	9.0
216		70	240	170	200	141.4	23	42	18	16	57	78	20	3/4	UK 216	FC 216	H 2316	9.0
UKFC 217	2 15/16																HA2317	10.4
217			9 27/32	7 3/32	8 3/16	5 51/64	29/32	1 25/32	45/64	45/64	2 21/64	3 7/32					H 2317	10.4
217	3	75	250	180	208	147.1	23	45	18	18	59	82	20	3/4	UK 217	FC 217	HE2317	10.4
UKFC 218		80	10 7/16	7 15/32	8 21/32	6 1/8	29/32	1 31/32	55/64	45/64	2 35/64	3 3/8	20	3/4	UK 218	FC 218	H 2318	13.3
			265	190	220	155.5	23	50	22	18	64.5	86						

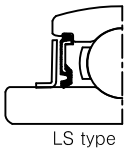
ROUND FLANGE TYPE UNITS

UKFCX

(Tapered bore)







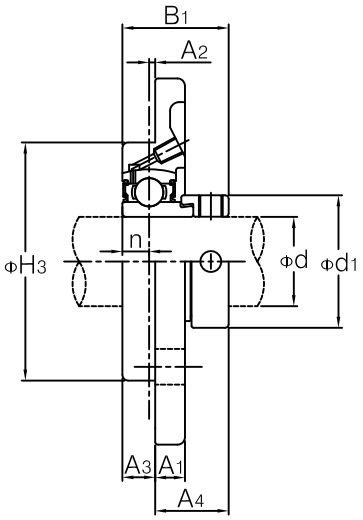
Unit No.	Shaft Dia. d1 (in.)	Shaft Dia. d1 (mm)	L	H3	J	J1	F	A1	A2	A3	A4	B1	Bolt used (mm)	Bolt used (in.)	Bearing No.	Housing No.	Adapter used	Weight (kgf)
UKFC X05	3/4		4 3/8	3	3 5/8	2 9/16	3/8	15/16	13/32	15/64	1 7/32	1 3/8	8	5/16	UK X05	FC X05	HE2305	1.2
X05		20	111	76	92	65	9.5	24	10	6	31	35					H 2305	1.2
UKFC X06	7/8																HS2306	1.5
X06	15/16		5	3 11/32	4 9/64	2 59/64	15/32	7/8	5/16	3/8	1 5/32	1 1/2	10	3/8	UK X06	FC X06	HA2306	1.5
X06		25	127	85	105	74.2	12	22.5	8	9.5	29.5	38					H 2306	1.5
X06	1																HE2306	1.5
UKFC X07	1 1/8																HS2307	1.9
X07		30	5 1/4	3 5/8	4 3/8	3 3/32	15/32	1 1/32	23/64	7/16	1 9/32	1 11/16	10	3/8	UK X07	FC X07	H 2307	1.9
X07	1 3/16		133	92	111	78.5	12	26	9	11	32.5	43					HA2307	1.9
UKFC X08	1 1/4																HE2308	1.9
X08	1 3/8		5 1/4	3 5/8	4 3/8	3 3/32	15/32	1 1/32	23/64	7/16	1 11/32	1 13/16	10	3/8	UK X08	FC X08	HS2308	1.9
X08		35	133	92	111	78.5	12	26	9	11	34	46					H 2308	1.9
UKFC X09	1 7/16																HA2309	2.6
X09	1 1/2		6 3/32	4 1/4	5 1/8	3 5/8	35/64	63/64	5/16	15/32	1 23/64	1 31/32	12	7/16	UK X09	FC X09	HE2309	2.6
X09		40	155	108	130	91.9	14	25	8	12	34.5	50					H 2309	2.6
X09	1 5/8																HS2309	2.6
UKFC X10	1 11/16																HA2310	3.1
X10	1 3/4		6 3/8	4 41/64	5 23/64	3 25/32	35/64	63/64	9/32	5/8	1 25/64	2 5/32	12	7/16	UK X10	FC X10	HE2310	3.1
X10		45	162	118	136	96.2	14	25	7	16	35.5	55					H 2310	3.1
UKFC X11	1 7/8																HS2311	4.0
X11	1 15/16		7 3/32	5	5 63/64	4 15/64	5/8	1 1/32	5/32	55/64	1 11/32	2 5/16	14	1/2	UK X11	FC X11	HA2311	4.0
X11		50	180	127	152	107.5	16	26	4	22	34	59					H 2311	4.0
X11	2																HE2311	4.0
UKFC X12	2 1/8																HS2312	5.1
X12		55	7 5/8	5 1/2	6 1/2	4 19/32	5/8	1 19/64	7/16	25/32	1 11/16	2 7/16	14	1/2	UK X12	FC X12	H 2312	5.1
UKFC X13	2 3/16																HA2313	5.3
X13	2 1/4		7 5/8	5 1/2	6 1/2	4 19/32	5/8	1 19/64	7/16	25/32	1 25/32	2 9/16	14	1/2	UK X13	FC X13	HE2313	5.3
X13		60	194	140	165	116.7	16	33	11	20	45	65					H 2313	5.3
X13	2 3/8																HS2313	5.3
UKFC X15	2 1/2																HA2315	7.7
X15		65	8 3/4	6 15/32	7 31/64	5 9/32	3/4	1 3/8	15/32	55/64	1 15/16	2 7/8	16	5/8	UK X15	FC X15	HE2315	7.7
X15	2 5/8		222	164	190	134.3	19	35	12	22	49	73					H 2315	7.7
UKFC X16	2 3/4																HE2316	11.4
X16		70	10 1/4	7 5/16	8 5/8	6 3/32	29/32	1 13/32	13/32	63/64	1 31/32	3 1/16	20	3/4	UK X16	FC X16	H 2316	11.4
			260	186	219	154.8	23	36	10	25	50	78						
UKFC X17	2 7/8																HS2317	12.6
X17	2 15/16		10 1/4	7 5/16	8 5/8	6 3/32	29/32	1 13/32	13/32	63/64	2 1/16	3 7/32	20	3/4	UK X17	FC X17	HA2317	12.6
X17		75	260	186	219	154.8	23	36	10	25	52.5	82					H 2317	12.6
X17	3																HE2317	12.6
UKFC X18		80	10 1/4	7 5/16	8 5/8	6 3/32	29/32	1 11/16	15/32	1 3/32	2 5/32	3 3/8	20	3/4	UK X18	FC X18	H 2318	14.0
			260	186	219	154.8	23	43	12	28	55	86						
UKFC X20	3 1/2		10 7/8	8 1/8	9 3/8	6 5/8	29/32	2 19/32	7/8	1 3/32	2 23/32	3 13/16	20	3/4	UK X20	FC X20	HE2320	15.0
X20		90	276	206	238	168.3	23	66	22	28	69	97					H 2320	15.0

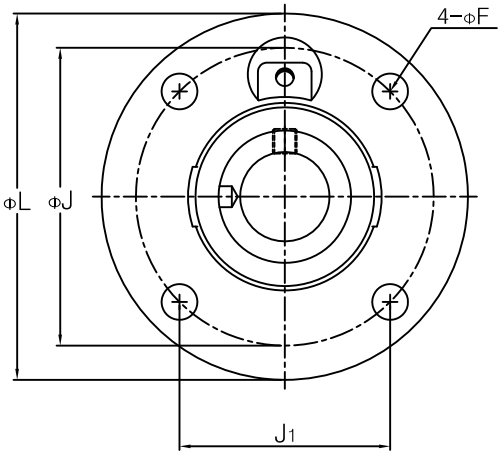
ROUND FLANGE C TYPE UNITS

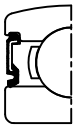
SAFCC2

(Cylindrical bore)

(With eccentric locking collar)





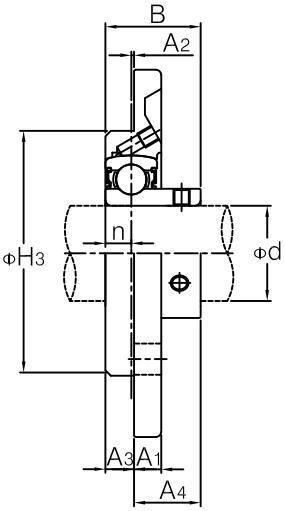


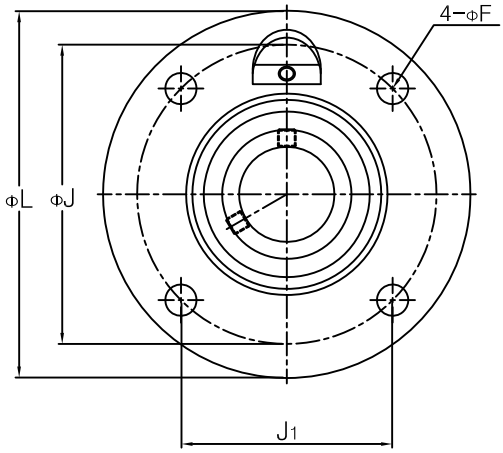
Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	L	H3	J	J1	F	A1	A2	A3	A4	B1	n	d1	Bolt used (mm)	Bolt used (in.)	Bearing No.	Housing No.	Weight (kgf)
SAFCC 201		12															SA 201		0.53
201-8	1/2																201-8		0.53
202		15															202		0.53
202-10	5/8		3 15/16	2 7/16	3 1/16	2 11/64	23/64	5/16	5/64	23/64	51/64	1.2205	1/4	1.3110	8	5/16	202-10	FCC 204	0.53
203		17	100	62	78	55.2	9	8	2	9	20.1	31	6.5	33.3			203		0.53
203-11	11/16																203-11		0.53
204-12	3/4																204-12		0.53
204		20															204		0.53
SAFCC 205-13	13/16																SA 205-13		0.80
205-14	7/8																205-14		0.80
205-15	15/16		4 17/32	2 3/4	3 35/64	2 1/2	23/64	23/64	3/32	13/32	53/64	1.2205	0.2953	1.5000	8	5/16	205-15	FCC 205	0.80
205		25	115	70	90	63.6	9	9	2.5	10	21	31	7.5	38.1			205		0.80
205-16	1																205-16		0.80
SAFCC 206-17	1 1/16																SA 206-17		0.95
206-18	1 1/8																206-18		0.95
206		30	4 27/32	3 5/32	3 15/16	2 25/32	15/32	13/32	1/8	7/16	15/16	1.4055	0.3543	1.7520	10	3/8	206	FCC 206	0.95
206-19	1 3/16		123	80	100	70.7	12	10	3	11	23.7	35.7	9	44.5			206-19		0.95
206-20	1 1/4																206-20		0.95
SAFCC 207-20	1 1/4																SA 207-20		1.25
207-21	1 5/16																207-21		1.25
207-22	1 3/8		5 5/16	3 35/64	4 11/32	3 1/16	29/64	13/32	3/64	13/32	1 1/8	1.5315	0.3740	2.1890	10	3/8	207-22	FCC 207	1.25
207		35	135	90	110	77.8	11.5	10	1	10.5	28.4	38.9	9.5	55.6			207		1.25
207-23	1 7/16																207-23		1.25
SAFCC 208-24	1 1/2																SA 208-24		1.68
208-25	1 9/16		5 23/32	3 15/16	4 23/32	3 11/32	29/64	29/64	1/16	31/64	1 15/64	1.7205	0.4331	2.3740	10	3/8	208-25	FCC 208	1.68
208		40	145	100	120	84.9	11.5	11.5	1.5	12.5	31.2	43.7	11	60.3			208		1.68
SAFCC 209-26	1 5/8																SA 209-26		2.05
209-27	1 11/16																209-27		2.05
209-28	1 3/4		6 3/32	4 1/8	5 1/8	3 39/64	35/64	15/32	5/64	1/2	1 13/64	1.7205	0.4331	2.5000	12	7/16	209-28	FCC 209	2.05
209		45	155	105	130	91.9	14	12	2	13	30.7	43.7	11	63.5			209		2.05
SAFCC 210-29	1 13/16																SA 210-29		2.19
210-30	1 7/8																210-30		2.19
210-31	1 15/16		6 1/2	4 11/32	5 5/16	3 49/64	35/64	1/2	3/64	15/32	1 1/4	1.7205	0.4331	2.7520	12	7/16	210-31	FCC 210	2.19
210		50	165	110	135	95.5	14	13	1	12	31.7	43.7	11	69.9			210		2.19
210-32	2																210-32		2.19
SAFCC 211-31	1 15/16																SA 211-31		3.14
211-32	2																211-32		3.14
211-34	2 1/8		7 9/32	4 29/32	5 29/32	4 11/64	45/64	19/32	0	31/64	1 7/16	1.9055	0.4724	3.0000	16	5/8	211-34	FCC 211	3.14
211		55	185	125	150	106	18	15	0	12.5	36.4	48.4	12	76.2			211		3.14
211-35	2 3/16																211-35		3.14
SAFCC 212-36	2 1/4																SA 212-36		3.83
212-37	2 5/16																212-37		3.83
212		60	7 11/16	5 5/16	6 5/16	4 29/64	45/64	5/8	-1/64	1/2	2 21/64	2.0906	0.5315	3.3150	16	5/8	212	FCC 212	3.83
212-38	2 3/8		195	135	160	113.1	18	16	−0.5	13	59.3	53.1	13.5	84.2			212-38		3.83
212-39	2 7/16																212-39		3.83

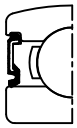
ROUND FLANGE C TYPE UNITS

SBFCC2

(Cylindrical bore)





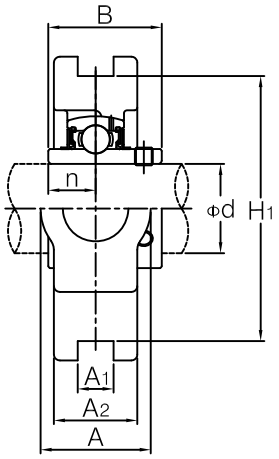

L type

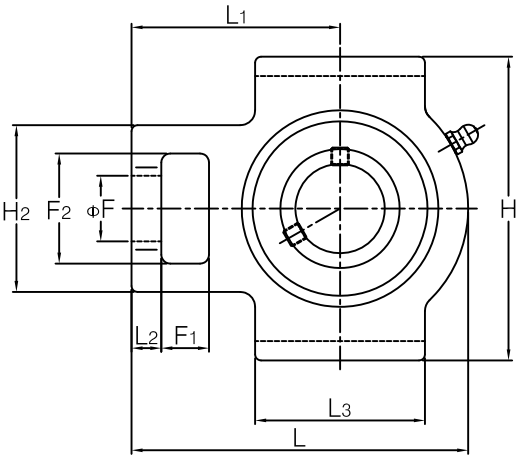
Unit No.	Shaft Dia. d (In.)	Shaft Dia. d (mm)	L	H3	J	J1	F	A1	A2	A3	A4	B	n	Bolt used (mm)	Bolt used (In.)	Bearing No.	Housing No.	Weight (kgf)
SBFCC 201		12	3 15/16	2 7/16	3 1/16	2 11/64	23/64	5/16	5/64	23/64	5/8	1.0040	0.2953	8	5/16	SB 201	FCC 204	0.53
201-8	1/2		100	62	78	55.2	9	8	2	9	16	25.5	7.5			201-8		0.53
202		15														202		0.53
202-10	5/8															202-10		0.53
203		17														203		0.53
203-11	11/16															203-11		0.53
204-12	3/4															204-12		0.53
204		20														204		0.53
SBFCC 205-13	13/16		4 17/32	2 3/4	3 35/64	2 1/2	23/64	23/64	3/32	13/32	43/64	1.0630	0.2953	8	5/16	SB 205-13	FCC 205	0.74
205-14	7/8		115	70	90	63.6	9	9	2.5	10	17	27	7.5			205-14		0.74
205-15	15/16															205-15		0.74
205		25														205		0.74
205-16	1															205-16		0.74
SBFCC 206-17	1 1/16		4 27/32	3 5/32	3 15/16	2 25/32	15/32	13/32	1/8	7/16	45/64	1.1811	0.3543	10	3/8	SB 206-17	FCC 206	0.92
206-18	1 1/8		123	80	100	70.7	12	10	3	11	18	30	9			206-18		0.92
206		30														206		0.92
206-19	1 3/16															206-19		0.92
206-20	1 1/4															206-20		0.92
SBFCC 207-20	1 1/4		5 5/16	3 35/64	4 11/32	3 1/16	29/64	13/32	3/64	13/32	31/32	1.3780	0.3740	10	3/8	SB 207-20	FCC 207	1.12
207-21	1 5/16		135	90	110	77.8	11.5	10	1	10.5	24.5	35	9.5			207-21		1.12
207-22	1 3/8															207-22		1.12
207		35														207		1.12
207-23	1 7/16															207-23		1.12
SBFCC 208-24	1 1/2		5 23/32	3 15/16	4 23/32	3 11/32	29/64	29/64	1/16	31/64	1 5/64	1.5748	0.4331	10	3/8	SB 208-24	FCC 208	1.57
208-25	1 9/16		145	100	120	84.9	11.5	11.5	1.5	12.5	27.5	40	11			208-25		1.57
208		40														208		1.57
SBFCC 209-26	1 5/8		6 3/32	4 1/8	5 1/8	3 39/64	35/64	15/32	5/64	1/2	1 7/64	1.6220	0.4331	12	7/16	SB 209-26	FCC 209	1.96
209-27	1 11/16		155	105	130	91.9	14	12	2	13	28.2	41.2	11			209-27		1.96
209-28	1 3/4															209-28		1.96
209		45														209		1.96
SBFCC 210-29	1 13/16		6 1/2	4 11/32	5 5/16	3 49/64	35/64	1/2	3/64	15/32	1 15/64	1.7165	0.4331	12	7/16	SB 210-29	FCC 210	2.74
210-30	1 7/8		165	110	135	95.5	14	13	1	12	31.6	43.6	11			210-30		2.74
210-31	1 15/16															210-31		2.74
210		50														210		2.74
210-32	2															210-32		2.74
SBFCC 211-31	1 15/16		7 9/32	4 29/32	5 29/32	4 11/64	45/64	19/32	0	31/64	1 5/16	1.7874	0.4724	16	5/8	SB 211-31	FCC 211	3.09
211-32	2		185	125	150	106	18	15	0	12.5	33.4	45.4	12			211-32		3.09
211-34	2 1/8															211-34		3.09
211		55														211		3.09
211-35	2 3/16															211-35		3.09
SBFCC 212-36	2 1/4		7 11/16	5 5/16	6 5/16	4 29/64	45/64	5/8	-1/64	1/2	1 37/64	2.0945	0.5315	16	5/8	SB 212-36	FCC 212	3.68
212-37	2 5/16		195	135	160	113.1	18	16	-0.5	13	40.2	53.2	13.5			212-37		3.68
212		60														212		3.68
212-38	2 3/8															212-38		3.68
212-39	2 7/16															212-39		3.68

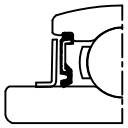
TAKE-UP TYPE UNITS

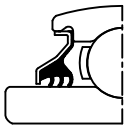
UCT2

(Cylindrical bore)






LS type

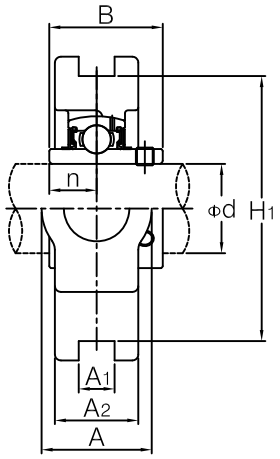

L3 type

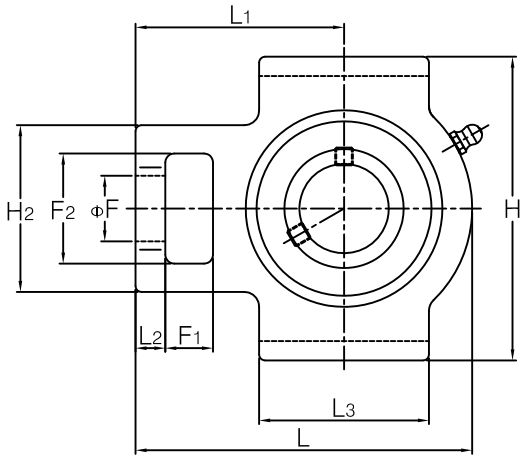
Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	A	A1	A2	H	H1	H2	L	L1	L2	L3	F	F1	F2	B	n	Bearing No.	Housing No.	Weight (kgf)
UCT 201		12	1 1/4	15/32	13/16	3 1/2	2 63/64	2	3 11/16	2 13/32	13/32	2	3/4	5/8	1 17/64	1.2205	0.5000	UC 201	T 204	0.81
201-8	1/2		32	12	21	89	76	51	94	61	10	51	19	16	32	31	12.7	201-8		0.81
202		15																202		0.79
202-10	5/8																	202-10		0.79
203		17																203		0.78
203-11	11/16																	203-11		0.78
204-12	3/4																	204-12		0.76
204		20																204		0.76
UCT 205-13	13/16		1 1/4	15/32	15/16	3 1/2	2 63/64	2	3 13/16	2 7/16	13/32	2	3/4	5/8	1 17/64	1.3425	0.5630	UC 205-13	T 205	0.84
205-14	7/8		32	12	24	89	76	51	97	62	10	51	19	16	32	34.1	14.3	205-14		0.84
205-15	15/16																	205-15		0.84
205		25																205		0.84
205-16	1																	205-16		0.84
UCT 206-17	1 1/16		1 15/32	15/32	1 3/32	4 1/32	3 1/2	2 7/32	4 7/16	2 3/4	13/32	2 1/4	55/64	5/8	1 15/32	1.5000	0.6260	UC 206-17	T 206	1.3
206-18	1 1/8		37	12	28	102	89	56	113	70	10	57	22	16	37	38.1	15.9	206-18		1.3
206		30																206		1.3
206-19	1 3/16																	206-19		1.3
206-20	1 1/4																	206-20		1.3
UCT 207-20	1 1/4		1 15/32	15/32	1 3/16	4 1/32	3 1/2	2 17/32	5 3/32	3 1/16	1/2	2 17/32	55/64	5/8	1 15/32	1.6890	1.6890	UC 207-20	T 207	1.6
207-21	1 5/16		37	12	30	102	89	64	129	78	13	64	22	16	37	42.9	17.5	207-21		1.6
207-22	1 3/8																	207-22		1.6
207		35																207		1.6
207-23	1 7/16																	207-23		1.6
UCT 208-24	1 1/2		1 15/16	5/8	1 5/16	4 1/2	4 1/64	3 9/32	5 21/32	3 15/32	5/8	3 9/32	1 9/64	3/4	1 15/16	1.9370	0.7480	UC 208-24	T 208	2.5
208-25	1 9/16		49	16	33	114	102	83	144	88	16	83	29	19	49	49.2	19	208-25		2.5
208		40																208		2.5
UCT 209-26	1 5/8		1 15/16	5/8	1 3/8	4 19/32	4 1/64	3 9/32	5 21/32	3 7/16	5/8	3 9/32	1 9/64	3/4	1 15/16	1.9370	0.7480	UC 209-26	T 209	2.4
209-27	1 11/16		49	16	35	117	102	83	144	87	16	83	29	19	49	49.2	19	209-27		2.4
209-28	1 3/4																	209-28		2.4
209		45																209		2.4
UCT 210-29	1 13/16		1 15/16	5/8	1 15/32	4 19/32	4 1/64	3 9/32	5 7/8	3 17/32	5/8	3 3/8	1 9/64	3/4	1 15/16	2.0315	0.7480	UC 210-29	T 210	2.6
210-30	1 7/8		49	16	37	117	102	83	149	90	16	86	29	19	49	51.6	19	210-30		2.6
210-31	1 15/16																	210-31		2.6
210		50																210		2.6
210-32	2																	210-32		2.6
UCT 211-31	1 15/16		2 17/32	55/64	1 1/2	5 3/4	5 1/8	4 1/32	6 23/32	4 3/16	3/4	3 3/4	1 3/8	63/64	2 17/32	2.1890	0.8740	UC 211-31	T 211	4.0
211-32	2		64	22	38	146	130	102	171	106	19	95	35	25	64	55.6	22.2	211-32		4.0
211-34	2 1/8																	211-34		4.0
211		55																211		4.0
211-35	2 3/16																	211-35		4.0
UCT 212-36	2 1/4		2 17/32	55/64	1 21/32	5 3/4	5 1/8	4 1/32	7 5/8	4 11/16	3/4	4 1/32	1 3/8	1 1/4	2 17/32	2.5630	1.0000	UC 212-36	T 212	4.9
212-37	2 5/16		64	22	42	146	130	102	194	119	19	102	35	32	64	65.1	25.4	212-37		4.9
212		60																212		4.9
212-38	2 3/8																	212-38		4.9
212-39	2 7/16																	212-39		4.9
UCT 213-40	2 1/2		2 3/4	1 1/32	1 23/32	6 9/16	5 15/16	4 3/8	8 13/16	5 13/32	13/16	4 3/4	1 39/64	1 1/4	2 3/4	2.5630	1.0000	UC 213-40	T 213	6.9
213		65	70	26	44	167	151	111	224	137	21	121	41	32	70	65.1	25.4	213		6.9
UCT 214-43	2 11/16		2 3/4	1 1/32	1 13/16	6 9/16	5 15/16	4 3/8	8 13/16	5 13/32	13/16	4 3/4	1 39/64	1 1/4	2 3/4	2.9370	1.1890	UC 214-43	T 214	7.0
214-44	2 3/4		70	26	46	167	151	111	224	137	21	121	41	32	70	74.6	30.2	214-44		7.0
214		70																214		7.0
UCT 215-46	2 7/8		2 3/4	1 1/32	1 7/8	6 9/16	5 15/16	4 3/8	9 1/8	5 1/2	13/16	4 3/4	1 39/64	1 1/4	2 3/4	3.0630	1.3110	UC 215-46	T 215	7.3
215-47	2 15/16		70	26	48	167	151	111	232	140	21	121	41	32	70	77.8	33.3	215-47		7.3
215		75																215		7.3
215-48	3																	215-48		7.3
UCT 216		80	2 3/4	1 1/32	2	7 1/4	6 1/2	4 3/8	9 1/4	5 1/2	13/16	4 3/4	1 39/64	1 1/4	2 3/4	3.2520	1.3110	UC 216	T 216	8.2
			70	26	51	184	165	111	235	140	21	121	41	32	70	82.6	33.3			8.2
UCT 217-52	3 1/4		2 7/8	1 3/16	2 1/8	7 25/32	6 13/16	4 7/8	10 1/4	6 3/8	1 5/32	6 3/16	1 57/64	1 1/2	2 7/8	3.3740	1.3425	UC 217-52	T 217	11.0
217		85	73	30	54	198	173	124	260	162	29	157	48	38	73	85.7	34.1	217		11.0
UCT 218-56	3 1/2		3 5/32	1 3/16	2 5/32	8 15/32	7 15/32	5 1/8	10 13/16	6 11/16	1 3/16	5 1/2	1 57/64	1 9/16	3 5/32	3.7795	1.5630	UC 218-56	T 218	14.0
218		90	80	30	55	215	190	130	275	170	30	140	48	40	80	96	39.7	218		14.0

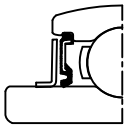
TAKE-UP TYPE UNITS

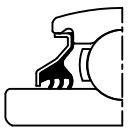
UCTX

(Cylindrical bore)






LS type

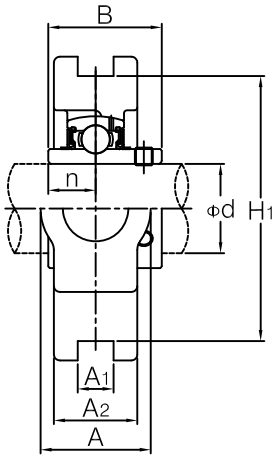

L3 type

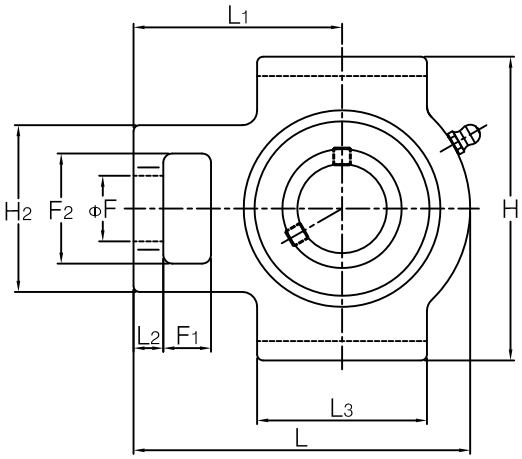
Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	A	A1	A2	H	H1	H2	L	L1	L2	L3	F	F1	F2	B	n	Bearing No.	Housing No.	Weight (kgf)
			Dimensions (in.) (mm)																	
UCT X05-13	13/16		1 15/32	15/32	1 3/32	4 1/32	3 1/2	2 7/32	4 7/16	2 3/4	13/32	2 1/4	55/64	5/8	1 15/32	1.5000	0.6260	UC X05-13		1.4
X05-14	7/8		37	12	28	102	89	56	113	70	10	57	22	16	37	38.1	15.9	X05-14		1.4
X05-15	15/16																	X05-15		1.4
X05		25																X05	T X05	1.4
X05-16	1																	X05-16		1.4
UCT X06-17	1 1/16		1 15/32	15/32	1 3/16	4 1/32	3 1/2	2 17/32	5 3/32	3 1/16	1/2	2 17/32	55/64	5/8	1 15/32	1.6890	0.6890	UC X06-17		1.7
X06-18	1 1/8		37	12	30	102	89	64	129	78	13	64	22	16	37	42.9	17.5	X06-18		1.7
X06		30																X06	T X06	1.7
X06-19	1 3/16																	X06-19		1.7
X06-20	1 1/4																	X06-20		1.7
UCT X07-20	1 1/4		1 15/16	5/8	1 13/32	4 1/2	4 1/64	3 9/32	5 21/32	3 15/32	19/32	3 9/32	1 9/64	3/4	1 15/16	1.9370	0.7480	UC X07-20		2.7
X07-21	1 5/16		49	16	36	114	102	83	144	88	15	83	29	19	49	49.2	19	X07-21		2.7
X07-22	1 3/8																	X07-22		2.7
X07		35																X07	T X07	2.7
X07-23	1 7/16																	X07-23		2.7
UCT X08-24	1 1/2		1 15/16	5/8	1 13/32	4 19/32	4 1/64	3 9/32	5 21/32	3 7/16	19/32	3 9/32	1 9/64	3/4	1 15/16	1.9370	0.7480	UC X08-24		2.6
X08-25	1 9/16		49	16	36	117	102	83	144	87	15	83	29	19	49	49.2	19	X08-25		2.6
X08		40																X08	T X08	2.6
UCT X09-26	1 5/8		1 15/16	5/8	1 1/2	4 19/32	4 1/64	3 9/32	5 7/8	3 17/32	5/8	3 3/8	1 9/64	3/4	1 15/16	2.0315	0.7480	UC X09-26		2.9
X09-27	1 11/16		49	16	38	117	102	83	149	90	16	86	29	19	49	51.6	19	X09-27		2.9
X09-28	1 3/4																	X09-28		2.9
X09		45																X09	T X09	2.9
UCT X10-30	1 7/8		2 17/32	55/64	1 21/32	5 3/4	5 1/8	4 1/32	6 23/32	4 3/16	3/4	3 3/4	1 3/8	63/64	2 17/32	2.1890	0.8740	UC X10-30		4.4
X10-31	1 15/16		64	22	42	146	130	102	171	106	19	95	35	25	64	55.6	22.2	X10-31		4.4
X10		50																X10	T X10	4.4
X10-32	2																	X10-32		4.4
UCT X11-31	1 15/16		2 17/32	55/64	1 21/32	5 3/4	5 1/8	4 1/32	7 5/8	4 11/16	3/4	4 1/32	1 3/8	1 1/4	2 17/32	2.5630	1.0000	UC X11-31		5.3
X11-32	2		64	22	42	146	130	102	194	119	19	102	35	32	64	65.1	25.4	X11-32		5.3
X11-34	2 1/8																	X11-34		5.3
X11		55																X11	T X11	5.3
X11-35	2 3/16																	X11-35		5.3
UCT X12-36	2 1/4		2 3/4	1 1/32	1 7/8	6 9/16	5 15/16	4 3/8	8 13/16	5 13/32	13/16	4 3/4	1 39/64	1 1/4	2 3/4	2.5630	1.0000	UC X12-36		7.4
X12-37	2 5/16		70	26	48	167	151	111	224	137	21	121	41	32	70	65.1	25.4	X12-37		7.4
X12		60																X12	T X12	7.4
X12-38	2 3/8																	X12-38		7.4
X12-39	2 7/16																	X12-39		7.4
UCT X13-40	2 1/2		2 3/4	1 1/32	1 7/8	6 9/16	5 15/16	4 3/8	8 13/16	5 13/32	13/16	4 3/4	1 39/64	1 1/4	2 3/4	2.9370	1.1890	UC X13-40		7.6
X13		65	70	26	48	167	151	111	224	137	21	121	41	32	70	74.6	30.2	X13	T X13	7.6
UCT X14-43	2 11/16		2 3/4	1 1/32	1 7/8	6 9/16	5 15/16	4 3/8	9 1/8	5 1/2	13/16	4 3/4	1 39/64	1 1/4	2 3/4	3.0630	1.3110	UC X14-43		7.9
X14-44	2 3/4		70	26	48	167	151	111	232	140	21	121	41	32	70	77.8	33.3	X14-44		7.9
X14		70																X14	T X14	7.9
UCT X15-47	2 15/16		2 3/4	1 7/64	1 7/8	7 1/4	6 1/2	4 3/8	9 1/4	5 1/2	13/16	4 3/4	1 39/64	1 1/4	2 3/4	3.2520	1.3110	UC X15-47		8.7
X15		75	70	28	48	184	165	111	235	140	21	121	41	32	70	82.6	33.3	X15	T X15	8.7
X15-48	3																	X15-48		8.7
UCT X16		80	2 7/8	1 7/64	2 1/8	7 25/32	6 13/16	4 7/8	10 1/4	6 3/8	1 3/32	6 3/16	1 57/64	1 1/2	2 7/8	3.3740	1.3425	UC X16	T X16	11.7
			73	28	54	198	173	124	260	162	28	157	48	38	73	85.7	34.1			11.7
UCT X17-52	3 1/4		2 7/8	1 7/64	2 1/8	7 25/32	6 13/16	4 7/8	10 1/4	6 3/8	1 3/32	6 3/16	1 57/64	1 1/2	2 7/8	3.7795	1.5630	UC X17-52		11.7
X17		85	73	28	54	198	173	124	260	162	28	157	48	38	73	96	39.7	X17	T X17	11.7
X17-55	3 7/16																	X17-55		11.7

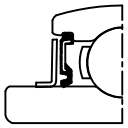
TAKE-UP TYPE UNITS

UCT3

(Cylindrical bore)





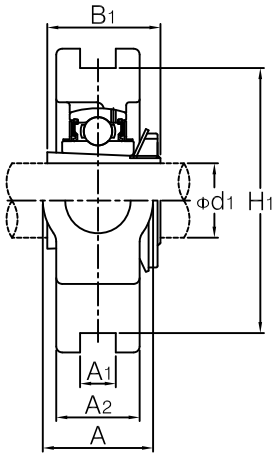

LS type

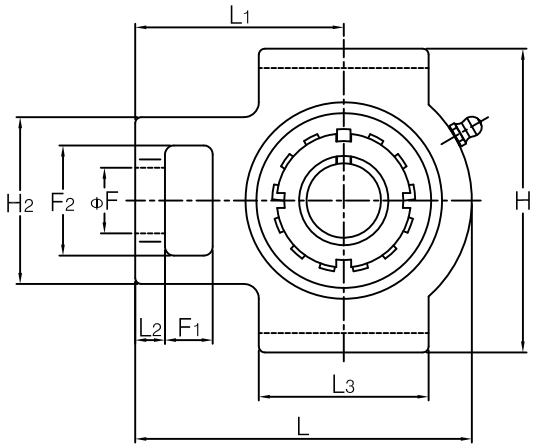
Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	A	A1	A2	H	H1	H2	L	L1	L2	L3	F	F1	F2	B	n	Bearing No.	Housing No.	Weight (kgf)
											(in.) (mm)									
UCT 305 305-16	1	25	1 13/32 36	15/32 12	1 1/32 26	3 1/2 89	3 5/32 80	2 7/16 62	4 13/16 122	3 76	15/32 12	2 9/16 65	1 1/32 26	5/8 16	1 13/32 36	1.4961 38	0.5906 15	UC 305 305-16	T 305	1.4 1.4
UCT 306-18 306	1 1/8	30	1 5/8 41	5/8 16	1 3/32 28	3 15/16 100	3 35/64 90	2 3/4 70	5 13/32 137	3 11/32 85	9/16 14	2 29/32 74	1 7/64 28	23/32 18	1 5/8 41	1.6929 43	0.6693 17	UC 306-18 306	T 306	1.8 1.8
UCT 307-20 307-22 307 307-23	1 1/4 1 3/8 1 7/16	35	1 25/32 45	5/8 16	1 1/4 32	4 3/8 111	3 15/16 100	2 15/16 75	5 29/32 150	3 11/16 94	19/32 15	3 5/32 80	1 3/16 30	25/32 20	1 25/32 45	1.8897 48	0.7480 19	UC 307-20 307-22 307 307-23	T 307	2.3 2.3 2.3 2.3
UCT 308-24 308	1 1/2	40	1 31/32 50	45/64 18	1 11/32 34	4 7/8 124	4 13/32 112	3 9/32 83	6 3/8 162	3 15/16 100	21/32 17	3 1/2 89	1 17/64 32	7/8 22	1 31/32 50	2.0472 52	0.7480 19	UC 308-24 308	T 308	3.0 3.0
UCT 309-28 309	1 3/4	45	2 5/32 55	45/64 18	1 1/2 38	5 7/16 138	4 59/64 125	3 17/32 90	7 178	4 11/32 110	23/32 18	3 13/16 97	1 11/32 34	15/16 24	2 5/32 55	2.2441 57	0.8661 22	UC 309-28 309	T 309	4.1 4.1
UCT 310-31 310	1 15/16	50	2 13/32 61	25/32 20	1 9/16 40	5 15/16 151	5 33/64 140	3 27/32 98	7 17/32 191	4 19/32 117	25/32 20	4 3/16 106	1 29/64 37	1 1/16 27	2 13/32 61	2.4015 61	0.8661 22	UC 310-31 310	T 310	4.9 4.9
UCT 311-32 311	2	55	2 19/32 66	55/64 22	1 23/32 44	6 13/32 163	5 29/32 150	4 1/8 105	8 5/32 207	5 127	13/16 21	4 17/32 115	1 17/32 39	1 5/32 29	2 19/32 66	2.5984 66	0.9842 25	UC 311-32 311	T 311	6.1 6.1
UCT 312		60	2 25/32 71	55/64 22	1 13/16 46	7 178	6 19/64 160	4 7/16 113	8 21/32 220	5 5/16 135	29/32 23	4 27/32 123	1 39/64 41	1 7/32 31	2 25/32 71	2.7953 71	1.0236 26	UC 312	T 312	7.6
UCT 313-40 313	2 1/2	65	3 5/32 80	1 1/32 26	1 31/32 50	7 15/32 190	6 11/16 170	4 9/16 116	9 3/8 238	5 3/4 146	63/64 25	5 9/32 134	1 11/16 43	1 1/4 32	2 25/32 71	2.9528 75	1.1811 30	UC 313-40 313	T 313	9.3 9.3
UCT 314-44 314	2 3/4	70	3 17/32 90	1 1/32 26	2 1/16 52	7 15/16 202	7 3/32 180	5 1/8 130	9 29/32 252	6 3/32 155	63/64 25	5 1/2 140	1 13/16 46	1 13/32 36	3 11/32 85	3.0709 78	1.2992 33	UC 314-44 314	T 314	11.1 11.1
UCT 315 315-48	3	75	3 17/32 90	1 1/32 26	2 5/32 55	8 1/2 216	7 9/16 192	5 3/16 132	10 5/16 262	6 5/16 160	63/64 25	5 29/32 150	1 13/16 46	1 13/32 36	3 11/32 85	3.2283 82	1.2598 32	UC 315 315-48	T 315	13 13
UCT 316		80	4 1/32 102	1 3/16 30	2 3/8 60	9 1/16 230	8 1/32 204	5 29/32 150	11 3/32 282	6 27/32 174	1 3/32 28	6 5/16 160	2 3/32 53	1 21/32 42	3 27/32 98	3.3858 86	1.3386 34	UC 316	T 316	16.2
UCT 317		85	4 1/32 102	1 17/64 32	2 17/32 64	9 7/16 240	8 27/64 214	5 31/32 152	11 23/32 298	7 7/32 183	1 3/16 30	6 11/16 170	2 3/32 53	1 21/32 42	3 27/32 98	3.7795 96	1.5748 40	UC 317	T 317	19
UCT 318-56 318	3 1/2	90	4 11/32 110	1 17/64 32	2 19/32 66	10 1/32 255	8 31/32 228	6 5/16 160	12 9/32 312	7 9/16 192	1 3/16 30	6 7/8 175	2 1/4 57	1 13/16 46	4 3/16 106	3.7795 96	1.5748 40	UC 318-56 318	T 318	21.6 21.6
UCT 319		95	4 11/32 110	1 3/8 35	2 27/32 72	10 5/8 270	9 29/64 240	6 1/2 165	12 11/16 322	7 3/4 197	1 7/32 31	7 3/32 180	2 1/4 57	1 13/16 46	4 3/16 106	4.0551 103	1.6142 41	UC 319	T 319	24.9
UCT 320 320-64	4	100	4 23/32 120	1 3/8 35	2 15/16 75	11 13/32 290	10 15/64 260	6 7/8 175	13 19/32 345	8 9/32 210	1 1/4 32	7 7/8 200	2 21/64 59	1 7/8 48	4 17/32 115	4.2519 108	1.6535 42	UC 320 320-64	T 320	30.7 30.7
UCT 321		105	4 23/32 120	1 3/8 35	2 15/16 75	11 13/32 290	10 15/64 260	6 7/8 175	13 19/32 345	8 9/32 210	1 1/4 32	7 7/8 200	2 21/64 59	1 7/8 48	4 17/32 115	4.4062 112	1.7343 44	UC 321	T 321	36.7
UCT 322		110	5 1/8 130	1 1/2 38	3 5/32 80	12 19/32 320	11 7/32 285	7 9/32 185	15 5/32 385	9 1/4 235	1 1/2 38	8 15/32 215	2 9/16 65	2 1/16 52	4 29/32 125	4.6063 117	1.8110 46	UC 322	T 322	39.7
UCT 324		120	5 1/2 140	1 49/64 45	3 17/32 90	13 31/32 355	12 19/32 320	8 9/32 210	17 432	10 1/2 267	1 21/32 42	9 1/16 230	2 3/4 70	2 3/8 60	5 1/2 140	4.9606 126	2.0079 51	UC 324	T 324	54.4
UCT 326 326-82	5 1/8	130	5 29/32 150	1 31/32 50	3 15/16 100	15 5/32 385	13 25/32 350	8 21/32 220	18 5/16 465	11 7/32 285	1 25/32 45	9 7/16 240	2 61/64 75	2 9/16 65	5 29/32 150	5.3150 135	2.1260 54	UC 326 326-82	T 326	69.3 69.3
UCT 328-88 328	5 1/2	140	6 3/32 155	1 31/32 50	3 15/16 100	16 11/32 415	14 61/64 380	9 1/16 230	20 9/32 515	12 13/32 315	1 31/32 50	10 1/32 255	3 5/32 80	2 3/4 70	6 5/16 160	5.7086 145	2.3228 59	UC 328-88 328	T 328	85.1 85.1

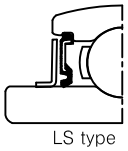
TAKE-UP TYPE UNITS

UKT2

(Tapered bore)





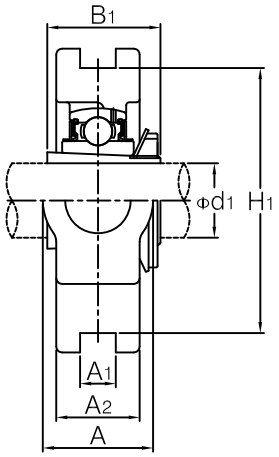


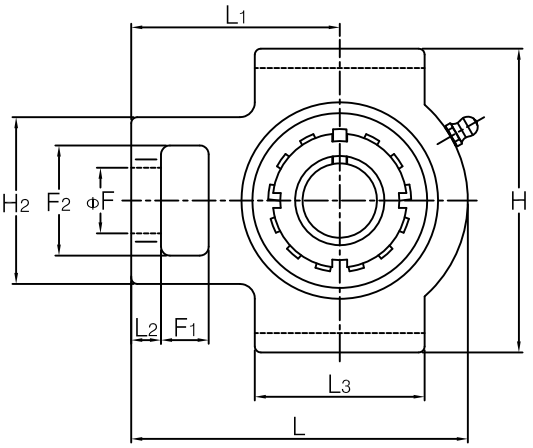
Unit No.	Shaft Dia d1 (in.)	Shaft Dia d1 (mm)	A	A1	A2	H	H1	H2	L	L1	L2	L3	F	F1	F2	B1	Bearing No.	Housing No.	Adapter Used	Weight (kgf)
			Dimensions (in.) (mm)																	
UKT 205	3/4		1 1/4	15/32	15/16	3 1/2	2 63/64	2	3 13/16	2 7/16	13/32	2	3/4	5/8	1 1/4	1 3/8	UK 205	T 205	HE2305	0.88
205		20	32	12	24	89	76	51	97	62	10	51	19	16	32	35			H 2305	0.88
UKT 206	7/8																		HS2306	1.3
206	15/16		1 15/32	15/32	1 3/32	4 1/32	3 1/2	2 7/32	4 7/16	2 3/4	13/32	2 1/4	55/64	5/8	1 15/32	1 1/2	UK 206	T 206	HA2306	1.3
206		25	37	12	28	102	89	56	113	70	10	57	22	16	37	38			H 2306	1.3
206	1																		HE2306	1.3
UKT 207	1 1/8																		HS2307	1.7
207		30	1 15/32	15/32	1 3/16	4 1/32	3 1/2	2 17/32	5 3/32	3 1/16	1/2	2 17/32	55/64	5/8	1 15/32	1 11/16	UK 207	T 207	H 2307	1.7
207	1 3/16		37	12	30	102	89	64	129	78	13	64	22	16	37	43			HA2307	1.7
UKT 208	1 1/4																		HE2308	2.5
208	1 3/8		1 15/16	5/8	1 5/16	4 1/2	4 1/64	3 9/32	5 21/32	3 15/32	5/8	3 9/32	1 9/64	3/4	1 15/16	1 13/16	UK 208	T 208	HS2308	2.5
208		35	49	16	33	114	102	83	144	88	16	83	29	19	49	46			H 2308	2.5
UKT 209	1 7/16																		HA2309	2.5
209	1 1/2		1 15/16	5/8	1 3/8	4 19/32	4 1/64	3 9/32	5 21/32	3 7/16	5/8	3 9/32	1 9/64	3/4	1 15/16	1 31/32	UK 209	T 209	HE2309	2.5
209		40	49	16	35	117	102	83	144	87	16	83	29	19	49	50			H 2309	2.5
209	1 5/8																		HS2309	2.5
UKT 210	1 11/16																		HA2310	2.7
210	1 3/4		1 15/16	5/8	1 15/32	4 19/32	4 1/64	3 9/32	5 7/8	3 17/32	5/8	3 3/8	1 9/64	3/4	1 15/16	2 5/32	UK 210	T 210	HE2310	2.7
210		45	49	16	37	117	102	83	149	90	16	86	29	19	49	55			H 2310	2.7
UKT 211	1 7/8																		HS2311	4.1
211	1 15/16		2 17/32	55/64	1 1/2	5 3/4	5 1/8	4 1/32	6 23/32	4 3/16	3/4	3 3/4	1 3/8	63/64	2 17/32	2 5/16	UK 211	T 211	HA2311	4.1
211		50	64	22	38	146	130	102	171	106	19	95	35	25	64	59			H 2311	4.1
211	2																		HE2311	4.1
UKT 212	2 1/8		2 17/32	55/64	1 21/32	5 3/4	5 1/8	4 1/32	7 5/8	4 11/16	3/4	4 1/32	1 3/8	1 1/4	2 17/32	2 7/16	UK 212	T 212	HS2312	4.8
212		55	64	22	42	146	130	102	194	119	19	102	35	32	64	62			H 2312	4.8
UKT 213	2 3/16																		HA2313	6.8
213	2 1/4		2 3/4	1 1/32	1 23/32	6 9/16	5 15/16	4 3/8	8 13/16	5 13/32	13/16	4 3/4	1 39/64	1 1/4	2 3/4	2 9/16	UK 213	T 213	HE2313	6.8
213		60	70	26	44	167	151	111	224	137	21	121	41	32	70	65			H 2313	6.8
213	2 3/8																		HS2313	6.8
UKT 215	2 7/16																		HA2315	7.4
215	2 1/2		2 3/4	1 1/32	1 7/8	6 9/16	5 15/16	4 3/8	9 1/8	5 1/2	13/16	4 3/4	1 39/64	1 1/4	2 3/4	2 7/8	UK 215	T 215	HE2315	7.4
215		65	70	26	48	167	151	111	232	140	21	121	41	32	70	73			H 2315	7.4
UKT 216	2 11/16																		HA2316	8.5
216	2 3/4		2 3/4	1 1/32	2	7 1/4	6 1/2	4 3/8	9 1/4	5 1/2	13/16	4 3/4	1 39/64	1 1/4	2 3/4	3 1/16	UK 216	T 216	HE2316	8.5
216		70	70	26	51	184	165	111	235	140	21	121	41	32	70	78			H 2316	8.5
UKT 217	2 15/16																		HA2317	11.2
217		75	2 7/8	1 3/16	2 1/8	7 25/32	6 13/16	4 7/8	10 1/4	6 3/8	1 5/32	6 3/16	1 57/64	1 1/2	2 7/8	3 7/32	UK 217	T 217	H 2317	11.2
217	3		73	30	54	198	173	124	260	162	29	157	48	38	73	82			HE2317	11.2
UKT 218		80	3 5/32	1 3/16	2 5/32	8 15/32	7 15/32	5 1/8	10 13/16	6 11/16	1 3/16	5 1/2	1 57/64	1 9/16	3 5/32	3 3/8	UK 218	T 218	H 2318	14.0
			80	30	55	215	190	130	275	170	30	140	48	40	80	86				

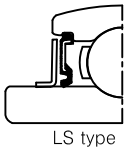
TAKE-UP TYPE UNITS

UKTX

(Tapered bore)





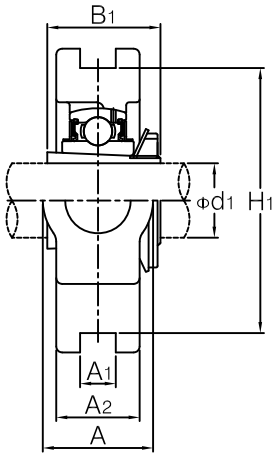


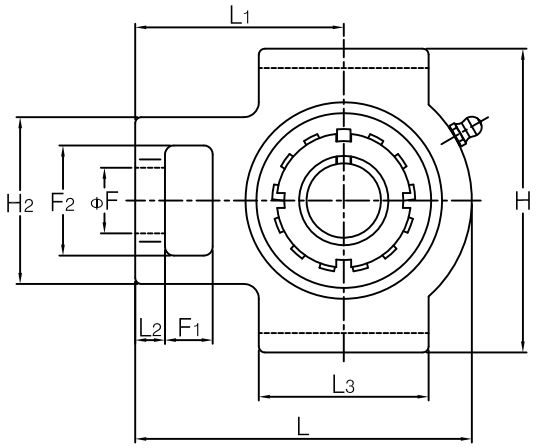
Unit No.	Shaft Dia d1 (in.)	Shaft Dia d1 (mm)	A	A1	A2	H	H1	H2	L	L1	L2	L3	F	F1	F2	B1	Bearing No.	Housing No.	Adapter Used	Weight (kgf)
			Dimensions (in.) (mm)																	
UKT X05	3/4		1 15/32	15/32	1 3/32	4 1/32	3 1/2	2 7/32	4 7/16	2 3/4	13/32	2 1/4	55/64	5/8	1 15/32	1 3/8	UK X05	T X05	HE2305	1.3
X05		20	37	12	28	102	89	56	113	70	10	57	22	16	37	35			H 2305	1.3
UKT X06	7/8																		HS2306	1.7
X06	15/16		1 15/32	15/32	1 3/16	4 1/32	3 1/2	2 17/32	5 3/32	3 1/16	1/2	2 17/32	55/64	5/8	1 15/32	1 1/2	UK X06	T X06	HA2306	1.7
X06		25	37	12	30	102	89	64	129	78	13	64	22	16	37	38			H 2306	1.7
X06	1																		HE2306	1.7
UKT X07	1 1/8																		HS2307	2.6
X07		30	1 15/16	5/8	1 13/32	4 1/2	4 1/64	3 9/32	5 21/32	3 15/32	19/32	3 9/32	1 9/64	3/4	1 15/16	1 11/16	UK X07	T X07	H 2307	2.6
X07	1 3/16		49	16	36	114	102	83	144	88	15	83	29	19	49	43			HA2307	2.6
UKT X08	1 1/4																		HE2308	2.6
X08	1 3/8		1 15/16	5/8	1 13/32	4 19/32	4 1/32	3 9/32	5 21/32	3 7/16	19/32	3 9/32	1 9/64	3/4	1 15/16	1 13/16	UK X08	T X08	HS2308	2.6
X08		35	49	16	36	117	102	83	144	87	15	83	29	19	49	46			H 2308	2.6
UKT X09	1 7/16																		HA2309	2.9
X09	1 1/2		1 15/16	5/8	1 1/2	4 19/32	4 1/64	3 9/32	5 7/8	3 17/32	5/8	3 3/8	1 9/64	3/4	1 15/16	1 31/32	UK X09	T X09	HE2309	2.9
X09		40	49	16	38	117	102	83	149	90	16	86	29	19	49	50			H 2309	2.9
X09	1 5/8																		HS2309	2.9
UKT X10	1 11/16																		HA2310	4.4
X10	1 3/4		2 17/32	55/64	1 21/32	5 3/4	5 1/8	4 1/32	6 23/32	4 3/16	3/4	3 3/4	1 3/8	63/64	2 17/32	2 5/32	UK X10	T X10	HE2310	4.4
X10		45	64	22	42	146	130	102	171	106	19	95	35	25	64	55			H 2310	4.4
UKT X11	1 7/8																		HS2311	5.1
X11	1 15/16		2 17/32	55/64	1 21/32	5 3/4	5 1/8	4 1/32	7 5/8	4 11/16	3/4	4 1/32	1 3/8	1 1/4	2 17/32	2 5/16	UK X11	T X11	HA2311	5.1
X11		50	64	22	42	146	130	102	194	119	19	102	35	32	64	59			H 2311	5.1
X11	2																		HE2311	5.1
UKT X12	2 1/8		2 3/4	1 1/32	1 7/8	6 9/16	5 15/16	4 3/8	8 13/16	5 13/32	13/16	4 3/4	1 39/64	1 1/4	2 3/4	2 7/16	UK X12	T X12	HS2312	7.3
X12		55	70	26	48	167	151	111	224	137	21	121	41	32	70	62			H 2312	7.3
UKT X13	2 3/16																		HA2313	7.2
X13	2 1/4		2 3/4	1 1/32	1 7/8	6 9/16	5 15/16	4 3/8	8 13/16	5 13/32	13/16	4 3/4	1 39/64	1 1/4	2 3/4	2 9/16	UK X13	T X13	HE2313	7.2
X13		60	70	26	48	167	151	111	224	137	21	121	41	32	70	65			H 2313	7.2
X13	2 3/8																		HS2313	7.2
UKT X15	2 1/2																		HE2315	8.4
X15		65	2 3/4	1 7/64	1 7/8	7 1/4	6 1/2	4 3/8	9 1/4	5 1/2	13/16	4 3/4	1 39/64	1 1/4	2 3/4	2 7/8	UK X15	T X15	H 2315	8.4
X15	2 5/8		70	28	48	184	165	111	235	140	21	121	41	32	70	73			HS2315	8.4
UKT X16	2 3/4		2 7/8	1 7/64	2 1/8	7 25/32	6 13/16	4 7/8	10 1/4	6 3/8	1 3/32	6 3/16	1 57/64	1 1/2	2 7/8	3 1/16	UK X16	T X16	HE2316	11.8
X16		70	73	28	54	198	173	124	260	162	28	157	48	38	73	78			H 2316	11.8
UKT X17	2 7/8																		HS2317	11.4
X17	2 15/16		2 7/8	1 7/64	2 1/8	7 25/32	6 13/16	4 7/8	10 1/4	6 3/8	1 3/32	6 3/16	1 57/64	1 1/2	2 7/8	3 7/32	UK X17	T X17	HA2317	11.4
X17		75	73	28	54	198	173	124	260	162	28	157	48	38	73	82			H 2317	11.4
X17	3																		HE2317	11.4

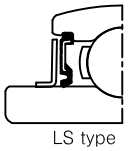
TAKE-UP TYPE UNITS

UKT3

(Tapered bore)





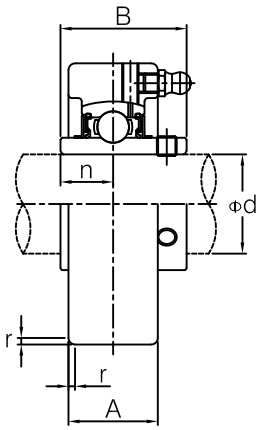


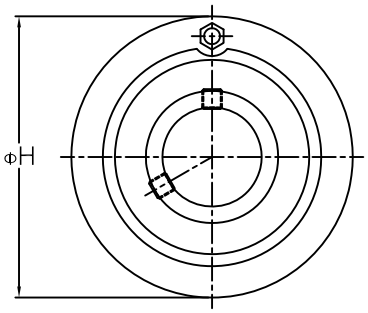
Unit No.	Shaft Dia d1 (in.)	Shaft Dia d1 (mm)	A	A1	A2	H	H1	H2	L	L1	L2	L3	F	F1	F2	B1	Bearing No.	Housing No.	Adapter Used	Weight (kgf)
			Dimensions (in.) (mm)																	
UKT 305	3/4	20	1 13/32	15/32	1 1/32	3 1/2	3 5/32	2 7/16	4 13/16	3	15/32	2 9/16	1 1/32	5/8	1 13/32	1.3780	UK 305	T 305	HE2305	1.4
305			36	12	26	89	80	62	122	76	12	65	26	16	36	35			H 2305	1.4
UKT 306	7/8	25	1 5/8	5/8	1 3/32	3 15/16	3 35/64	2 3/4	5 13/32	3 11/32	9/16	2 29/32	1 7/64	23/32	1 5/8	1.4961	UK 306	T 306	HS2306	1.8
306			41	16	28	100	90	70	137	85	14	74	28	18	41	38			H 2306	1.8
306	1																		HE2306	1.8
UKT 307	1 1/8	35	1 25/32	5/8	1 1/4	4 3/8	3 15/16	2 15/16	5 29/32	3 11/16	19/32	3 5/32	1 3/16	25/32	1 25/32	1.6929	UK 307	T 307	HS2307	2.3
307			45	16	32	111	100	75	150	94	15	80	30	20	45	43			H 2307	2.3
307	1 7/16																		HA2307	2.3
UKT 308	1 1/4	35	1 31/32	45/64	1 11/32	4 7/8	4 13/32	3 9/32	6 3/8	3 15/16	21/32	3 1/2	1 17/64	7/8	1 31/32	1.8110	UK 308	T 308	HE2308	3.0
308	1 3/8		50	18	34	124	112	83	162	100	17	89	32	22	50	46			HS2308	3.0
308																			H 2308	3.0
UKT 309	1 1/2	40	2 5/32	45/64	1 1/2	5 7/16	4 59/64	3 17/32	7	4 11/32	23/32	3 13/16	1 11/31	15/16	2 5/32	1.9685	UK 309	T 309	HE2309	4.1
309			55	18	38	138	125	90	178	110	18	97	34	24	55	50			H 2309	4.1
309	1 5/8																		HS2309	4.1
UKT 310	1 11/16	45	2 13/32	25/32	1 9/16	5 15/16	5 33/64	3 27/32	7 17/32	4 19/32	25/32	4 3/16	1 29/64	1 1/16	2 13/32	2.1654	UK 310	T 310	HA2310	4.9
310	1 3/4		61	20	40	151	140	98	191	117	20	106	37	27	61	55			HE2310	4.9
310																			H 2310	4.9
UKT 311	1 7/8	50	2 19/32	55/64	1 23/32	6 13/32	5 29/32	4 1/8	8 5/32	5	13/16	4 17/32	1 17/32	1 5/32	2 19/32	2.3228	UK 311	T 311	HS2311	6.1
311			66	22	44	163	150	105	207	127	21	115	39	29	66	59			H 2311	6.1
311	2																		HE2311	6.1
UKT 312	2 1/8	55	2 25/32	55/64	1 13/16	7	6 19/64	4 7/16	8 21/32	5 5/16	29/32	4 27/32	1 39/64	1 7/32	2 25/32	2.4409	UK 312	T 312	HS2312	7.6
312			71	22	46	178	160	113	220	135	23	123	41	31	71	62			H 2312	7.6
UKT 313	2 1/4	60	3 5/32	1 1/32	1 31/32	7 15/32	6 11/16	4 9/16	9 3/8	5 3/4	63/64	5 9/32	1 11/16	1 1/4	2 25/32	2.5591	UK 313	T 313	HE2313	9.3
313			80	26	50	190	170	116	238	146	25	134	43	32	71	65			H 2313	9.3
313	2 3/8																		HS2313	9.3
UKT 315	2 1/2	65	3 17/32	1 1/32	2 5/32	8 1/2	7 9/16	5 3/16	10 5/16	6 5/16	63/64	5 29/32	1 13/16	1 13/32	3 11/32	2.8740	UK 315	T 315	HE2315	13
315			90	26	55	216	192	132	262	160	25	150	46	36	85	73			H 2315	13
UKT 316	2 3/4	70	4 1/32	1 3/16	2 3/8	9 1/16	8 1/32	5 29/32	11 3/32	6 27/32	1 3/32	6 5/16	2 3/32	1 21/32	3 27/32	3.0709	UK 316	T 316	HE2316	16.2
316			102	30	60	230	204	150	282	174	28	160	53	42	98	78			H 2316	16.2
UKT 317		75	4 1/32	1 17/64	2 17/32	9 7/16	8 27/64	5 31/32	11 23/32	7 7/32	1 3/16	6 11/16	2 3/32	1 21/32	3 27/32	3.2283	UK 317	T 317	H 2317	19
317	3		102	32	64	240	214	152	298	183	30	170	53	42	98	82			HE2317	19
UKT 318		80	4 11/32	1 17/64	2 19/32	10 1/32	8 31/32	6 5/16	12 9/32	7 9/16	1 3/16	6 7/8	2 1/4	1 13/16	4 3/16	3.3858	UK 318	T 318	H 2318	21.6
			110	32	66	255	228	160	312	192	30	175	57	46	106	86				
UKT 319	3 1/4	85	4 11/32	1 3/8	2 27/32	10 5/8	9 29/64	6 1/2	12 11/16	7 3/4	1 7/32	7 3/32	2 1/4	1 13/16	4 3/16	3.5433	UK 319	T 319	HE2319	24.9
319			110	35	72	270	240	165	322	197	31	180	57	46	106	90			H 2319	24.9
UKT 320	3 1/2	90	4 23/32	1 3/8	2 15/16	11 13/32	10 15/64	6 7/8	13 19/32	8 9/32	1 1/4	7 7/8	2 21/64	1 7/8	4 17/32	3.8189	UK 320	T 320	HE2320	30.7
320			120	35	75	290	260	175	345	210	32	200	59	48	115	97			H 2320	30.7
UKT 322		100	5 1/8	1 1/2	3 5/32	12 19/32	11 7/32	7 9/32	15 5/32	9 1/4	1 1/2	8 15/32	2 9/16	2 1/16	4 29/32	4.1339	UK 322	T 322	H 2322	39.7
322	4		130	38	80	320	285	185	385	235	38	215	65	52	125	105			HE2322	39.7
UKT 324		110	5 1/2	1 49/64	3 17/32	13 31/32	12 19/32	8 9/32	17	10 1/2	1 21/32	9 1/16	2 3/4	2 3/8	5 1/2	4.4094	UK 324	T 324	H 2324	54.4
324	4 7/16		140	45	90	355	320	210	432	267	42	230	70	60	140	112			HA2324	54.4
UKT 326	4 1/2	115	5 29/32	1 31/32	3 15/16	15 5/32	13 25/32	8 21/32	18 5/16	11 7/32	1 25/32	9 7/16	2 61/64	2 9/16	5 29/32	4.7638	UK 326	T 326	HE2326	69.3
326			150	50	100	385	350	220	465	285	45	240	75	65	150	121			H 2326	69.3
UKT 328		125	6 3/32	1 31/32	3 15/16	16 11/32	14 61/64	9 1/16	20 9/32	12 13/32	1 31/32	10 1/32	3 5/32	2 3/4	6 5/16	5.1575	UK 328	T 328	H 2328	85.1
328	4 15/16		155	50	100	415	380	230	515	315	50	255	80	70	160	131			HA2328	85.1

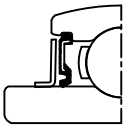
CARTRIDGE TYPE UNITS

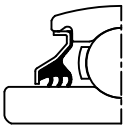
UCC2

(Cylindrical bore)






LS type

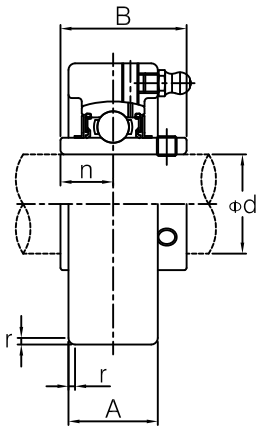

L3 type

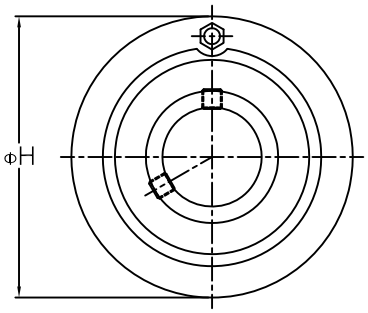
Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	H	A	r	B	n	Bearing No.	Housing No.	Weight (kgf)
UCC 201		12	2.8346	25/32	1.5	1.2205	0.5000	UC 201	C 204	0.52
201-8	1/2		72	20		31	12.7	201-8		0.52
202		15						202		0.50
202-10	5/8							202-10		0.50
203		17						203		0.49
203-11	11/16							203-11		0.49
204-12	3/4							204-12		0.47
204		20						204		0.47
UCC 205-13	13/16		3.1496	55/64	1.5	1.3425	0.5630	UC 205-13	C 205	0.64
205-14	7/8		80	22		34.1	14.3	205-14		0.64
205-15	15/16							205-15		0.64
205		25						205		0.64
205-16	1							205-16		0.64
UCC 206-17	1 1/16		3.3465	1 1/16	1.5	1.5000	0.6260	UC 206-17	C 206	0.81
206-18	1 1/8		85	27		38.1	15.9	206-18		0.81
206		30						206		0.81
206-19	1 3/16							206-19		0.81
206-20	1 1/4							206-20		0.81
UCC 207-20	1 1/4		3.5433	1 7/64	2	1.6890	0.6890	UC 207-20	C 207	0.93
207-21	1 5/16		90	28		42.9	17.5	207-21		0.93
207-22	1 3/8							207-22		0.93
207		35						207		0.93
207-23	1 7/16							207-23		0.93
UCC 208-24	1 1/2		3.9370	1 3/16	2	1.9370	0.7480	UC 208-24	C 208	1.2
208-25	1 9/16		100	30		49.2	19	208-25		1.2
208		40						208		1.2
UCC 209-26	1 5/8		4.3307	1 7/32	2	1.9370	0.7480	UC 209-26	C 209	1.5
209-27	1 11/16		110	31		49.2	19	209-27		1.5
209-28	1 3/4							209-28		1.5
209		45						209		1.5
UCC 210-30	1 7/8		4.7244	1 19/64	2	2.0315	0.7480	UC 210-30	C 210	2.0
210-31	1 15/16		120	33		51.6	19	210-31		2.0
210		50						210		2.0
210-32	2							210-32		2.0
UCC 211-31	1 15/16		4.9213	1 3/8	2.5	2.1890	0.8740	UC 211-31	C 211	2.2
211-32	2		125	35		55.6	22.2	211-32		2.2
211-34	2 1/8							211-34		2.2
211		55						211		2.2
211-35	2 3/16							211-35		2.2
UCC 212-36	2 1/4		5.1181	1 1/2	2.5	2.5630	1.0000	UC 212-36	C 212	2.6
212-37	2 5/16		130	38		65.1	25.4	212-37		2.6
212		60						212		2.6
212-38	2 3/8							212-38		2.6
212-39	2 7/16							212-39		2.6
UCC 213-40	2 1/2		5.5118	1 37/64	2.5	2.5630	1.0000	UC 213-40	C 213	3.0
213		65	140	40		65.1	25.4	213		3.0

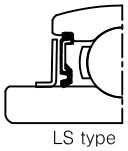
CARTRIDGE TYPE UNITS

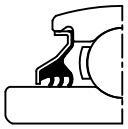
UCCX

(Cylindrical bore)






LS type

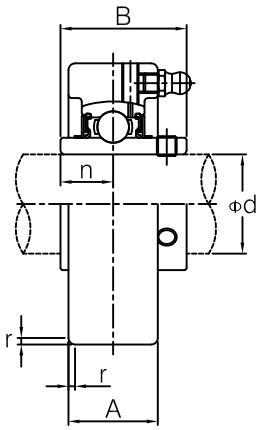

L3 type

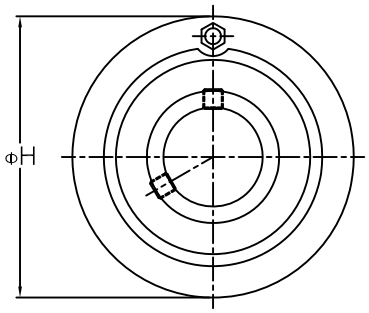
Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	Dimensions (in.) (mm) H	A	r	B	n	Bearing No.	Housing No.	Weight (kgf)
UCC X05-13	13/16		3.5433	1 1/16	1.5	1.5000	0.6260	UC X05-13		1.0
X05-14	7/8		90	27		38.1	15.9	X05-14		1.0
X05-15	15/16							X05-15		1.0
X05		25						X05	C X05	1.0
X05-16	1							X05-16		1.0
UCC X06-17	1 1/16		3.9370	1 3/16	2	1.6890	0.6890	UC X06-17		1.3
X06-18	1 1/8		100	30		42.9	17.5	X06-18		1.3
X06		30						X06	C X06	1.3
X06-19	1 3/16							X06-19		1.3
X06-20	1 1/4							X06-20		1.3
UCC X07-20	1 1/4		4.3307	1 11/32	2	1.9370	0.7480	UC X07-20		1.7
X07-21	1 5/16		110	34		49.2	19	X07-21		1.7
X07-22	1 3/8							X07-22		1.7
X07		35						X07	C X07	1.7
X07-23	1 7/16							X07-23		1.7
UCC X08-24	1 1/2		4.7244	1 1/2	2	1.9370	0.7480	UC X08-24		2.1
X08-25	1 9/16		120	38		49.2	19	X08-25		2.1
X08		40						X08	C X08	2.1
UCC X09-26	1 5/8		4.7244	1 1/2	2	2.0315	0.7480	UC X09-26		2.2
X09-27	1 11/16		120	38		51.6	19	X09-27		2.2
X09-28	1 3/4							X09-28		2.2
X09		45						X09	C X09	2.2
UCC X10-30	1 7/8		5.1181	1 37/64	2.5	2.1890	0.8740	UC X10-30		2.8
X10-31	1 15/16		130	40		55.6	22.2	X10-31		2.8
X10		50						X10	C X10	2.8
X10-32	2							X10-32		2.8
UCC X11-31	1 15/16		5.9055	1 21/32	2.5	2.5630	1.0000	UC X11-31		4.0
X11-32	2		150	42		65.1	25.4	X11-32		4.0
X11-34	2 1/8							X11-34		4.0
X11		55						X11	C X11	4.0
X11-35	2 3/16							X11-35		4.0
UCC X12-36	2 1/4		6.2992	1 47/64	2.5	2.5630	1.0000	UC X12-36		4.6
X12-37	2 5/16		160	44		65.1	25.4	X12-37		4.6
X12-37		60						X12	C X12	4.6
X12-38	2 3/8							X12-38		4.6
X12-39	2 7/16							X12-39		4.6

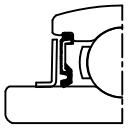
CARTRIDGE TYPE UNITS

UCC3

(Cylindrical bore)





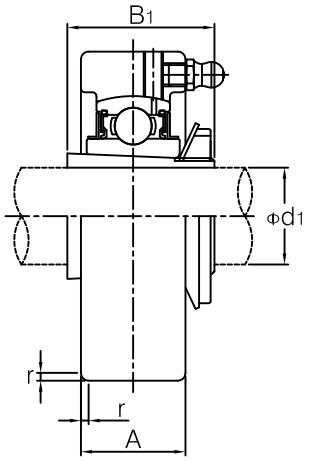

LS type

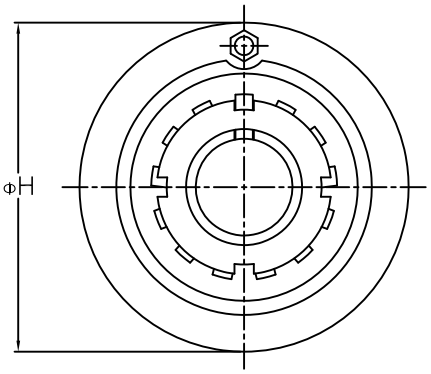
Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	Dimensions (in.) (mm) H	A	r	B	n	Bearing No.	Housing No.	Weight (kgf)
UCC 305 305-16	1	25	3.5433 90	1 1/32 26	2	1.4961 38	0.5906 15	UC 305 305-16	C 305	1.5 1.5
UCC 306-18 306	1 1/8	30	3.9370 100	1 7/64 28	2	1.6929 43	0.6693 17	UC 306-18 306	C 306	1.7 1.7
UCC 307-20 307-22 307 307-23	1 1/4 1 3/8 1 7/16	35	4.3307 110	1 17/64 32	3	1.8897 48	0.7480 19	UC 307-20 307-22 307 307-23	C 307	2.2 2.2 2.2 2.2
UCC 308-24 308	1 1/2	40	4.7244 120	1 11/32 34	3	2.0472 52	0.7480 19	UC 308-24 308	C 308	2.2 2.2
UCC309-28 309	1 3/4	45	5.1181 130	1 1/2 38	3	2.2441 57	0.8661 22	UC 309-28 309	C 309	2.8 2.8
UCC 310-31 310	1 15/16	50	5.5118 140	1 37/64 40	3	2.4015 61	0.8661 22	UC 310-31 310	C 310	3.2 3.2
UCC 311-32 311	2	55	5.9055 150	1 47/64 44	3	2.5984 66	0.9842 25	UC 311-32 311	C 311	3.9 3.9
UCC 312		60	6.2992 160	1 13/16 46	3	2.7953 71	1.0236 26	UC 312	C 312	4.8
UCC 313-40 313	2 1/2	65	6.6929 170	1 31/32 50	3	2.9528 75	1.1811 30	UC 313-40 313	C 313	5.7 5.7
UCC 314-44 314	2 3/4	70	7.0866 180	2 3/64 52	3	3.0709 78	1.2992 33	UC 314-44 314	C 314	6.7 6.7
UCC 315 315-48	3	75	7.4803 190	2 11/64 55	4	3.2283 82	1.2598 32	UC 315 315-48	C 315	7.8 7.8
UCC 316		80	7.8740 200	2 23/64 60	4	3.3858 86	1.3386 34	UC 316	C 316	9.2
UCC 317		85	8.4646 215	2 33/64 64	4	3.7795 96	1.5748 40	UC 317	C 317	11.7
UCC 318-56 318	3 1/2	90	8.8583 225	2 19/32 66	4	3.7795 96	1.5748 40	UC 318-56 318	C 318	13.1 13.1
UCC 319		95	9.4488 240	2 53/64 72	4	4.0551 103	1.6142 41	UC 319	C 319	15.8
UCC 320 320-64	4	100	10.2362 260	2 61/64 75	4	4.2519 108	1.6535 42	UC 320 320-64	C 320	19.6 19.6
UCC 321		105	10.2362 260	2 61/64 75	4	4.4094 112	1.7323 44	UC 321	C 321	27.0
UCC 322		110	11.8110 300	3 5/32 80	5	4.6063 117	1.8110 46	UC 322	C 322	29.2
UCC 324		120	12.5984 320	3 35/64 90	5	4.9606 126	2.0079 51	UC 324	C 324	35.9
UCC 326 326-82	5 1/8	130	13.3858 340	3 15/16 100	5	5.3150 135	2.1260 54	UC 326 326-82	C 326	43.0 43.0
UCC 328-88 328	5 1/2	140	14.1732 360	3 15/16 100	5	5.7086 145	2.3228 59	UC 328-88 328	C 328	52.9 52.9

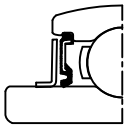
CARTRIDGE TYPE UNITS

UKC2

(Tapered bore)





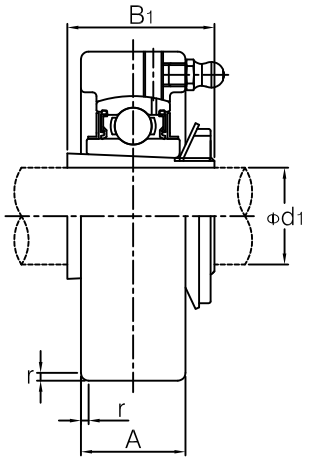

LS type

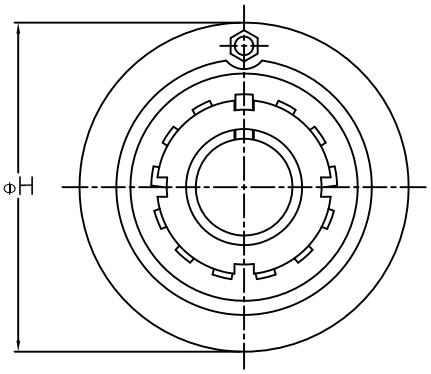
Unit No.	Shaft Dia. d1 (in.)	Shaft Dia. d1 (mm)	Dimensions (in.) (mm) H	A	r	B1	Bearing No.	Housing No.	Adapter Used	Weight (kgf)
UKC 205 205	3/4	20	3.1496 80	55/64 22	1.5	1 3/8 35	UK 205	C 205	HE 2305 H 2305	0.68 0.68
UKC 206 206 206 206	7/8 15/16 1	25	3.3465 85	1 1/16 27	1.5	1 1/2 38	UK 206	C 206	HS 2306 HA 2306 H 2306 HE 2306	0.85 0.85 0.85 0.85
UKC 207 207 207	1 1/8 1 3/16	30	3.5433 90	1 7/64 28	2	1 11/16 43	UK 207	C 207	HS 2307 H 2307 HA 2307	0.97 0.97 0.97
UKC 208 208 208	1 1/4 1 3/8	35	3.9370 100	1 7/64 28	2	1 13/16 46	UK 208	C 208	HE 2308 HS 2308 H 2308	1.3 1.3 1.3
UKC 209 209 209 209	1 7/16 1 1/2 1 5/8	40	4.3307 110	1 7/32 31	2	1 31/32 50	UK 209	C 209	HA 2309 HE 2309 H 2309 HS 2309	1.6 1.6 1.6 1.6
UKC 210 210 210	1 11/16 1 3/4	45	4.7244 120	1 19/64 33	2	2 5/32 55	UK 210	C 210	HA 2310 HE 2310 H 2310	2.0 2.0 2.0
UKC 211 211 211 211	1 7/8 1 15/16 2	50	4.9213 125	1 3/8 35	2.5	2 5/16 59	UK 211	C 211	HS 2311 HA 2311 H 2311 HE 2311	2.3 2.3 2.3 2.3
UKC 212 212	2 1/8	55	5.1181 130	1 1/2 38	2.5	2 7/16 62	UK 212	C 212	HS 2312 H 2312	2.5 2.5
UKC 213 213 213 213	2 3/16 2 1/4 2 3/8	60	5.5118 140	1 37/64 40	2.5	2 9/16 65	UK 213	C 213	HA 2313 HE 2313 H 2313 HS 2313	3.0 3.0 3.0 3.0

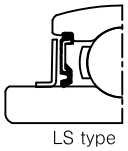
CARTRIDGE TYPE UNITS

UKCX

(Tapered bore)





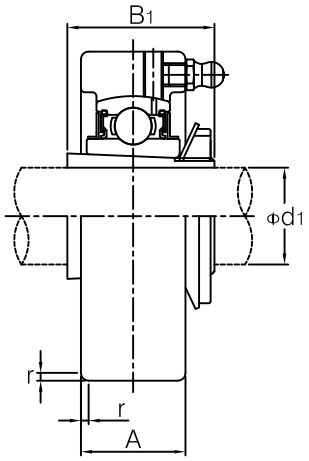


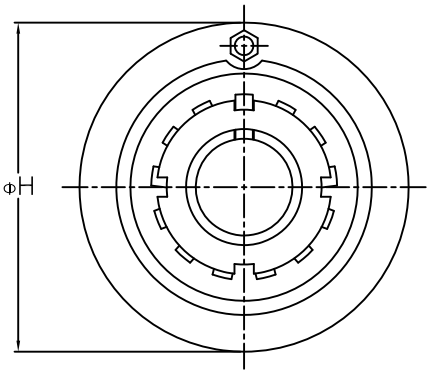
Unit No.	Shaft Dia. d1 (in.)	Shaft Dia. d1 (mm)	Dimensions (in.) (mm) H	A	r	B1	Bearing No.	Housing No.	Adapter Used	Weight (kgf)
UKC X05 X05	3/4	20	3.5433 90	1 1/16 27	1.5	1 3/8 35	UK X05	C X05	HE 2305 H 2305	0.99 0.99
UKC X06 X06 X06 X06	7/8 15/16 1	25	3.9370 100	1 3/16 30	2	1 1/2 38	UK X06	C X06	HS 2306 HA 2306 H 2306 HE 2306	1.3 1.3 1.3 1.3
UKC X07 X07 X07	1 1/8 1 3/16	30	4.3307 110	1 11/32 34	2	1 11/16 43	UK X07	C X07	HS 2307 H 2307 HA 2307	1.7 1.7 1.7
UKC X08 X08 X08	1 1/4 1 3/8	35	4.7244 120	1 1/2 38	2	1 13/16 46	UK X08	C X08	HE 2308 HS 2308 H 2308	2.3 2.3 2.3
UKC X09 X09 X09 X09	1 7/16 1 1/2 1 5/8	40	4.7244 120	1 1/2 38	2	1 31/32 50	UK X09	C X09	HA 2309 HE 2309 H 2309 HS 2309	2.3 2.3 2.3 2.3
UKC X10 X10 X10	1 11/16 1 3/4	45	5.1181 130	1 37/64 40	2.5	2 5/32 55	UK X10	C X10	HA 2310 HE 2310 H 2310	2.8 2.8 2.8
UKC X11 X11 X11 X11	1 7/8 1 15/16 2	50	5.9055 150	1 21/32 42	2.5	2 5/16 59	UK X11	C X11	HS 2311 HA 2311 H 2311 HE 2311	3.8 3.8 3.8 3.8
UKC X12 X12	2 1/8	55	6.2992 160	1 47/64 44	2.5	2 7/16 62	UK X12	C X12	HS 2312 H 2312	4.4 4.4

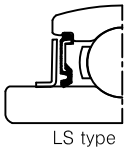
CARTRIDGE TYPE UNITS

UKC3

(Tapered bore)





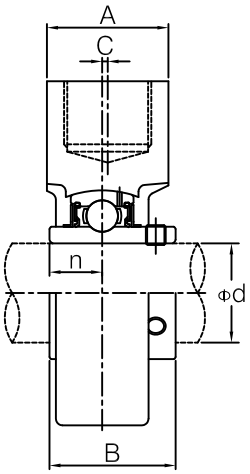


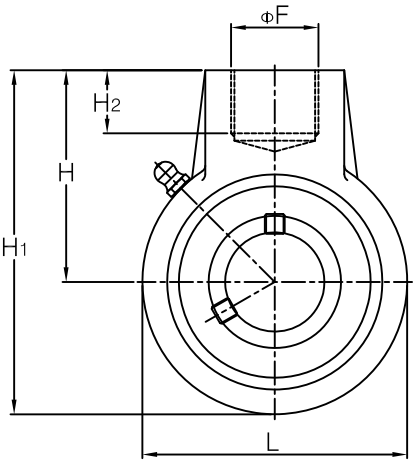
Unit No.	Shaft Dia. d1 (in.)	Shaft Dia. d1 (mm)	Dimensions (in.) (mm) H	A	r	B1	Bearing No.	Housing No.	Adapter Used	Weight (kgf)
UKC 305 305	3/4	20	3.5433 90	1 1/32 26	2	1.3780 35	UK 305	C 305	HE 2305 H 2305	1.5 1.5
UKC 306 306 306	7/8 1	25	3.9370 100	1 7/64 28	2	1.4961 38	UK 306	C 306	HS 2306 H 2306 HE 2306	1.7 1.7 1.7
UKC 307 307 307	1 1/8 1 3/16	30	4.3307 110	1 17/64 32	3	1.6929 43	UK 307	C 307	HS 2307 H 2307 HA 2307	2.2 2.2 2.2
UKC 308 308 308	1 1/4 1 3/8	35	4.7244 120	1 11/32 34	3	1.8110 46	UK 308	C 308	HE 2308 HS 2308 H 2308	2.2 2.2 2.2
UKC 309 309 309	1 1/2 1 5/8	40	5.1181 130	1 1/2 38	3	1.9685 50	UK 309	C 309	HE 2309 H 2309 HS 2309	2.8 2.8 2.8
UKC 310 310 310	1 11/16 1 3/4	45	5.5118 140	1 37/64 40	3	2.1654 55	UK 310	C 310	HA 2310 HE 2310 H 2310	3.2 3.2 3.2
UKC 311 311 311	1 7/8 2	50	5.9055 150	1 47/64 44	3	2.3228 59	UK 311	C 311	HS 2311 H 2311 HE 2311	3.9 3.9 3.9
UKC 312 312	2 1/8	55	6.2992 160	1 13/16 46	3	2.4409 62	UK 312	C 312	HS 2312 H 2312	4.8 4.8
UKC 313 313 313	2 1/4 2 3/8	60	6.6929 170	1 31/32 50	3	2.5591 65	UK 313	C 313	HE 2313 H 2313 HS 2313	5.7 5.7 5.7
UKC 315 315	2 1/2	65	7.4803 190	2 11/64 55	4	2.8740 73	UK 315	C 315	HE 2315 H 2315	7.8 7.8
UKC 316 316	2 3/4	70	7.8740 200	2 23/64 60	4	3.0709 78	UK 316	C 316	HE 2316 H 2316	9.2 9.2
UKC 317 317	3	75	8.4646 215	2 33/64 64	4	3.2283 82	UK 317	C 317	H 2317 HE 2317	11.7 11.7
UKC 318		80	8.8583 225	2 19/32 66	4	3.3858 86	UK 318	C 318	H 2318	13.1
UKC 319 319	3 1/4	85	9.4488 240	2 53/64 72	4	3.5433 90	UK 319	C 319	HE 2319 H 2319	15.8 15.8
UKC 320 320	3 1/2	90	10.2362 260	2 61/64 75	4	3.8189 97	UK 320	C 320	HE 2320 H 2320	19.6 19.6
UKC 322 322	4	100	11.8110 300	3 5/32 80	5	4.1339 105	UK 322	C 322	H 2322 HE 2322	29.2 29.2
UKC 324 324	4 7/16	110	12.5984 320	3 35/64 90	5	4.4094 112	UK 324	C 324	H 2324 HA 2324	35.9 35.9
UKC 326 326	4 1/2	115	13.3858 340	3 15/16 100	6	4.7638 121	UK 326	C 326	HE 2326 H 2326	43.0 43.0
UKC 328 328	4 15/16	125	14.1732 360	3 15/16 100	6	5.1575 131	UK 328	C 328	H 2328 HA 2328	52.9 52.9

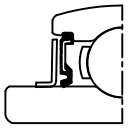
HANGER TYPE UNITS

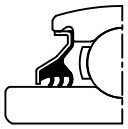
UCHA2

(Cylindrical bore)






LS type


L3 type

Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	Dimensions (in.) (mm) H	A	L	H1	H2	F	C	B	n	Bearing No.	Housing No.	Weight (kgf)
UCHA 201		12										UC 201		0.77
201-8	1/2											201-8		0.77
202		15										202		0.75
202-10	5/8											202-10		0.75
203		17	2 33/64	1 9/16	2 17/32	3 25/32	3/4	PF 3/4	0	1.2205	0.5000	203	HA 204	0.74
203-11	11/16		64	40	64	96	19			31	12.7	203-11		0.74
204-12	3/4											204-12		0.72
204		20										204		0.72
UCHA 205-13	13/16											UC 205-13		0.87
205-14	7/8											205-14		0.87
205-15	15/16		2 33/64	1 9/16	3 1/16	4 1/16	3/4	PF 3/4	0	1.3425	0.5630	205-15	HA 205	0.87
205		25	64	40	78	103	19			34.1	14.3	205		0.87
205-16	1											205-16		0.87
UCHA 206-17	1 1/16											UC 206-17		0.83
206-18	1 1/8											206-18		0.83
206		30	2 33/64	1 9/16	3 5/32	4 3/32	3/4	PF 3/4	0	1.5000	0.6260	206	HA 206	0.83
206-19	1 3/16		64	40	80	104	19			38.1	15.9	206-19		0.83
206-20	1 1/4											206-20		0.83
UCHA 207-20	1 1/4											UC 207-20		1.2
207-21	1 5/16											207-21		1.2
207-22	1 3/8		2 3/4	1 9/16	3 5/8	4 9/16	3/4	PF 3/4	0	1.6890	0.6890	207-22	HA 207	1.2
207		35	70	40	92	116	19			42.9	17.5	207		1.2
207-23	1 7/16											207-23		1.2
UCHA 208-24	1 1/2											UC 208-24		1.3
208-25	1 9/16		2 7/8	1 9/16	3 15/16	4 27/32	3/4	PF 3/4	5/64	1.9370	0.7480	208-25	HA 208	1.3
208		40	73	40	100	123	19		2	49.2	19	208		1.3
UCHA 209-26	1 5/8											UC 209-26		1.7
209-27	1 11/16											209-27		1.7
209-28	1 3/4		3 15/64	1 7/8	4 1/4	5 11/32	13/16	PF 1	13/64	1.9370	0.7480	209-28	HA 209	1.7
209		45	82	48	108	136	21		5	49.2	19	209		1.7
UCHA 210-29	1 13/16											UC 210-29		2.1
210-30	1 7/8											210-30		2.1
210-31	1 15/16		3 17/64	1 7/8	4 21/32	5 19/32	13/16	PF 1	13/64	2.0315	0.7480	210-31	HA 210	2.1
210		50	83	48	118	142	21		5	51.6	19	210		2.1
210-32	2											210-32		2.1
UCHA 211-31	1 15/16											UC 211-31		2.8
211-32	2											211-32		2.8
211-34	2 1/8		3 3/4	2 3/8	4 31/32	5 29/32	63/64	PF 1 1/4	9/32	2.1890	0.8740	211-34	HA 211	2.8
211		55	95	60	126	150	25		7	55.6	22.2	211		2.8
211-35	2 3/16											211-35		2.8
UCHA 212-36	2 1/4											UC 212-36		3.9
212-37	2 5/16											212-37		3.9
212		60	4 1/64	2 3/8	5 19/32	6 13/16	1 3/32	PF 1 1/4	23/64	2.5630	1.0000	212	HA 212	3.9
212-38	2 3/8		102	60	142	173	28		9	65.1	25.4	212-38		3.9
212-39	2 7/16											212-39		3.9
UCHA 213-40	2 1/2		4 39/64	2 3/4	6 17/32	7 7/8	1 1/4	PF 1 1/2	3/8	2.5630	1.0000	UC 213-40	HA 213	5.8
213		65	117	70	166	200	32		9.5	65.1	25.4	213		5.8
UCHA 214-43	2 11/16		4 39/64	2 3/4	6 17/32	7 7/8	1 1/4	PF 1 1/2	3/8	2.9371	1.1890	UC 214-43	HA 214	5.9
214-44	2 3/4		117	70	166	200	32		9.5	74.6	30.2	214-44		5.9
214		70										214		5.9
UCHA 215-46	2 7/8		4 39/64	2 3/4	6 17/32	7 7/8	1 1/4	PF 1 1/2	3/8	3.0630	1.3110	UC 215-46	HA 215	5.6
215-47	2 15/16		117	70	166	200	32		9.5	77.8	33.3	215-47		5.6
215		75										215		5.6
215-48	3											215-48		5.6

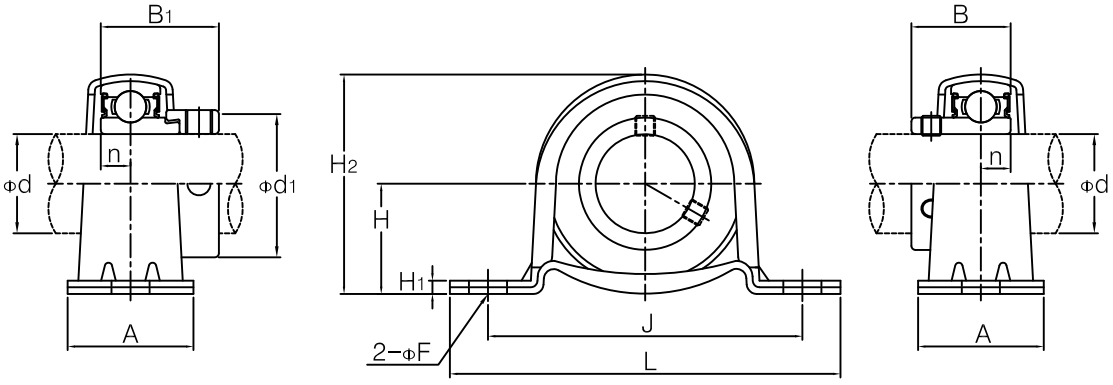
*PF : Parallel pipe threads, [Reference] 9. Parallel Pipe Threads Specification Table(PAGE F07)

PRESSED STEEL PILLOW BLOCK TYPE UNITS

SAPP2 SBPP2

(Cylindrical bore)

SAPP2(With eccentric locking collar), SBPP2(Set screw locking)



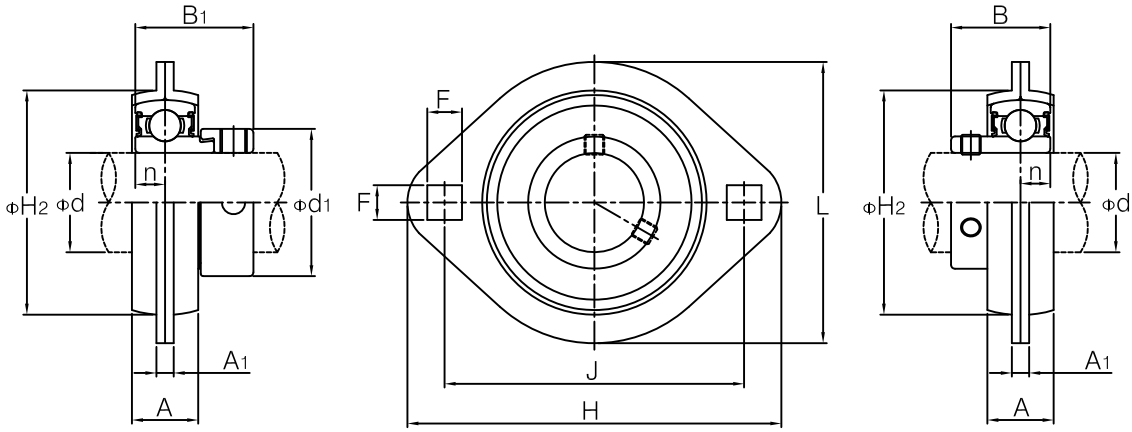
Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	Dimensions (in.) (mm) H	L	A	J	F	H1	H2	n	Bolt used (mm)	Bolt used (in.)	SAPP B1	SAPP d1	SAPP Bearing No.	SAPP Weight (kgf)	SBPP B	SBPP Bearing No.	SBPP Weight (kgf)	Housing No.
SAPP SBPP 201		12													SA 201	0.19		SB 201	0.16	
201-8	1/2														201-8	0.19		201-8	0.16	
202		15	7/8	3 3/8	63/64	2 43/64	3/8	1/8	1 23/32	0.2560	8	5/16	1.1260	1.1260	202	0.19	0.8858	202	0.16	PP 203
202-10	5/8		22.2	86	25	68	9.5	3.2	43.8	6.5			28.6	28.6	202-10	0.19	22.5	202-10	0.16	
203		17													203	0.19		203	0.16	
203-11	11/16														203-11	0.19		203-11	0.16	
SAPP SBPP 204-12	3/4	20	1	3 27/32	1 1/4	2 63/64	3/8	1/8	1 63/64	0.2953	8	5/16	1.2204	1.3110	SA 204-12	0.23	1.0039	SB 204-12	0.23	PP 204
204			25.4	98	32	76	9.5	3.2	50.5	7.5			31	33.3	204	0.23	25.5	204	0.23	
SAPP SBPP 205-13	13/16														SA 205-13	0.32		SB 205-13	0.28	
205-14	7/8														205-14	0.32		205-14	0.28	
205-15	15/16		1 1/8	4 1/4	1 1/4	3 25/64	29/64	5/32	2 15/64	0.2953	10	3/8	1.2204	1.5000	205-15	0.32	1.0630	205-15	0.28	PP 205
205		25	28.6	108	32	86	11.5	4.0	56.6	7.5			31	38.1	205	0.32	27	205	0.28	
205-16	1														205-16	0.32		205-16	0.28	
SAPP SBPP 206-17	1 1/16														SA 206-17	0.50		SB 206-17	0.47	
206-18	1 1/8														206-18	0.50		206-18	0.47	
206		30	1 5/16	4 19/32	1 1/2	3 3/4	29/64	5/32	2 39/64	0.3543	10	3/8	1.4055	1.7520	206	0.50	1.1811	206	0.47	PP 206
206-19	1 3/16		33.3	117	38	95	11.5	4.0	66.3	9			35.7	44.5	206-19	0.50	30	206-19	0.47	
206-20	1 1/4														206-20	0.50		206-20	0.47	
SAPP SBPP 207-20	1 1/4														SA 207-20	0.71		SB 207-20	0.57	
207-21	1 5/16														207-21	0.71		207-21	0.57	
207-22	1 3/8		1 9/16	5 5/64	1 21/32	4 5/32	29/64	3/16	3 1/8	0.3740	10	3/8	1.5315	2.1890	207-22	0.71	1.3780	207-22	0.57	PP 207
207		35	39.7	129	42	106	11.5	4.6	78	9.5			38.9	55.6	207	0.71	35	207	0.57	
207-23	1 7/16														207-23	0.71		207-23	0.57	

PRESSED STEEL OVAL FLANGE TYPE UNITS

SAPFL2 SBPFL2

(Cylindrical bore)

SAPFL2(With eccentric locking collar), SBPFL2(Set screw locking)



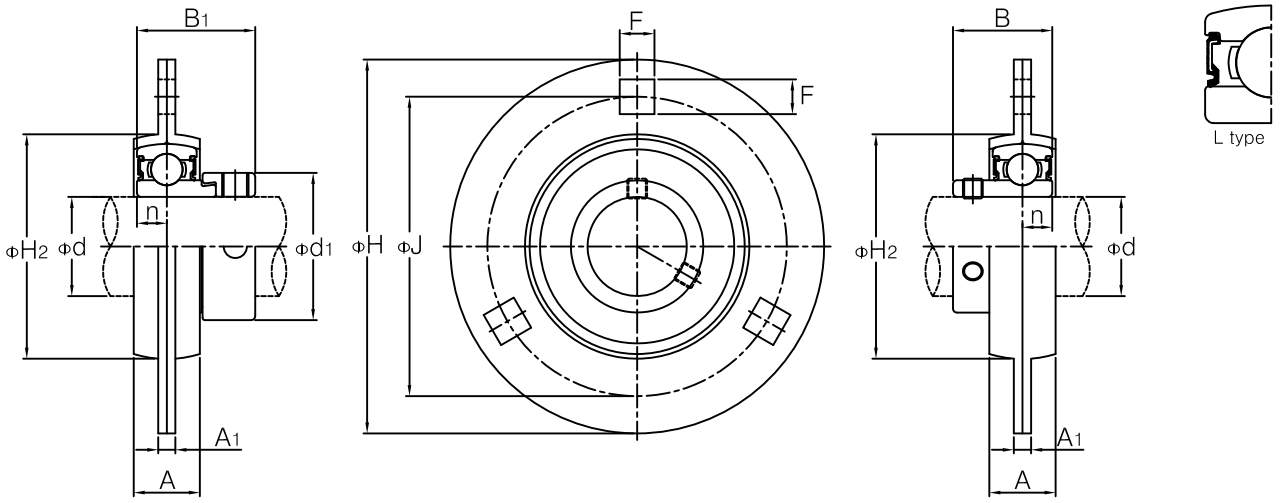
Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	H	L	A	A1	J	F	H2	n	Bolt used (mm)	Bolt used (in.)	S A P F L B1	S A P F L d1	S A P F L Bearing No.	S A P F L Weight (kgf)	S B P F L B	S B P F L Bearing No.	S B P F L Weight (kgf)	Housing No.
SAPFL SBPFL 201		12	3 3/16 81	2 5/16 59	9/16 14	5/32 4	2 1/2 63.5	9/32 7	1 47/64 44	0.2560 6.5	6	1/4	1.1260 28.6	1.1260 28.6	SB 201	0.22	0.8858 22.5	SB 201	0.19	PFL 203
201-8	1/2														201-8	0.22		201-8	0.19	
202		15													202	0.22		202	0.19	
202-10	5/8														202-10	0.22		202-10	0.19	
203		17													203	0.22		203	0.19	
203-11	11/16														203-11	0.22		203-11	0.19	
SAPFL SBPFL 204-12 204	3/4	20	3 35/64 90	2 5/8 67	5/8 16	5/32 4	2 13/16 71.5	23/64 9	2 51	0.2953 7.5	8	5/16	1.2204 31	1.3110 33.3	SB 204-12 204	0.24 0.24	1.0039 25.5	SB 204-12 204	0.24 0.24	PFL 204
SAPFL SBPFL 205-13	13/16		3 3/4 95	2 25/32 71	23/32 18	5/32 4	3 76	23/64 9	2 13/64 56	0.2953 7.5	8	5/16	1.2204 31	1.5000 38.1	SB 205-13	0.32	1.0630 27	SB 205-13	0.28	PFL 205
205-14	7/8														205-14	0.32		205-14	0.28	
205-15	15/16														205-15	0.32		205-15	0.28	
205		25													205	0.32		205	0.28	
205-16	1														205-16	0.32		205-16	0.28	
SAPFL SBPFL 206-17	1 1/16		4 7/16 113	3 5/16 84	25/32 20	13/64 5.2	3 9/16 90.5	7/16 11	2 41/64 68	0.3543 9	10	3/8	1.4055 35.7	1.7520 44.5	SB 206-17	0.41	1.1811 30	SB 206-17	0.38	PFL 206
206-18	1 1/8														206-18	0.41		206-18	0.38	
206		30													206	0.41		206	0.38	
206-19	1 3/16														206-19	0.41		206-19	0.38	
206-20	1 1/4														206-20	0.41		206-20	0.38	
SAPFL SBPFL 207-20	1 1/4		4 29/32 125	3 11/16 94	53/64 21	13/64 5.2	3 15/16 100	7/16 11	3 1/32 78	0.3740 9.5	10	3/8	1.5315 38.9	2.1890 55.6	SB 207-20	0.70	1.3780 35	SB 207-20	0.62	PFL 207
207-21	1 5/16														207-21	0.70		207-21	0.62	
207-22	1 3/8														207-22	0.70		207-22	0.62	
207		35													207	0.70		207	0.62	
207-23	1 7/16														207-23	0.70		207-23	0.62	

PRESSED STEEL ROUND FLANGE TYPE UNITS

SAPF2 SBPF2

(Cylindrical bore)

SAPF2(With eccentric locking collar), SBPF2(Set screw locking)



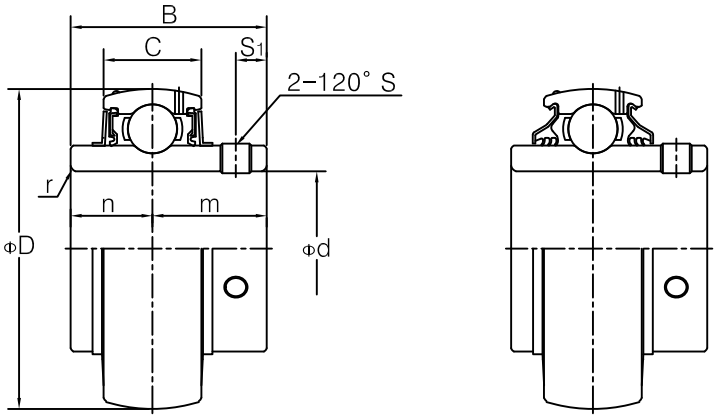
Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	Dimensions (in.) (mm) H	A	A1	J	F	H2	n	Bolt used (mm)	Bolt used (in.)	SAPF B1	SAPF d1	SAPF Bearing No.	SAPF Weight (kgf)	SBPF B	SBPF Bearing No.	SBPF Weight (kgf)	Housing No.
SAPF SBPF 201		12												SA 201	0.30		SB 201	0.27	
201-8	1/2													201-8	0.30		201-8	0.27	
202		15	3 3/16	9/16	5/32	2 15/32	9/32	1 47/64	0.2560	6	1/4	1.1260	1.1260	202	0.30	0.8858	202	0.27	PF 203
202-10	5/8		81	14	4	63	7	44	6.5			28.6	28.6	202-10	0.30	22.5	202-10	0.27	
203		17												203	0.30		203	0.27	
203-11	11/16													203-11	0.30		203-11	0.27	
SAPF SBPF 204-12	3/4	20	3 35/64	21/32	5/32	2 25/32	23/64	2	0.2953	8	5/16	1.2204	1.3110	SA 204-12	0.33	1.0039	SB 204-12	0.33	PF 204
204			90	17	4	71	9	51	7.5			31	33.3	204	0.33	25.5	204	0.33	
SAPF SBPF 205-13	13/16													SA 205-13	0.42		SB 205-13	0.38	
205-14	7/8													205-14	0.42		205-14	0.38	
205-15	15/16		3 3/4	23/32	5/32	2 63/64	23/64	2 13/64	0.2953	8	5/16	1.2204	1.5000	205-15	0.42	1.0630	205-15	0.38	PF 205
205		25	95	18	4	76	9	56	7.5			31	38.1	205	0.42	27	205	0.38	
205-16	1													205-16	0.42		205-16	0.38	
SAPF SBPF 206-17	1 1/16													SA 206-17	0.65		SB 206-17	0.62	
206-18	1 1/8													206-18	0.65		206-18	0.62	
206		30	4 7/16	3/4	13/64	3 35/64	7/16	2 41/64	0.3543	10	3/8	1.4055	1.7520	206	0.65	1.1811	206	0.62	PF 206
206-19	1 3/16		113	19	5.2	90	11	67.2	9			35.7	44.5	206-19	0.65	30	206-19	0.62	
206-20	1 1/4													206-20	0.65		206-20	0.62	
SAPF SBPF 207-20	1 1/4													SA 207-20	0.90		SB 207-20	0.82	
207-21	1 5/16													207-21	0.90		207-21	0.82	
207-22	1 3/8		4 13/16	53/64	13/64	3 15/16	7/16	3 1/32	0.3740	10	3/8	1.5315	2.1890	207-22	0.90	1.3780	207-22	0.82	PF 207
207		35	122	21	5.2	100	11	77.2	9.5			38.9	55.6	207	0.90	35	207	0.82	
207-23	1 7/16													207-23	0.90		207-23	0.82	

C. Bearings dimension table

SET SCREW TYPE BEARINGS

UC2

(Cylindrical bore)

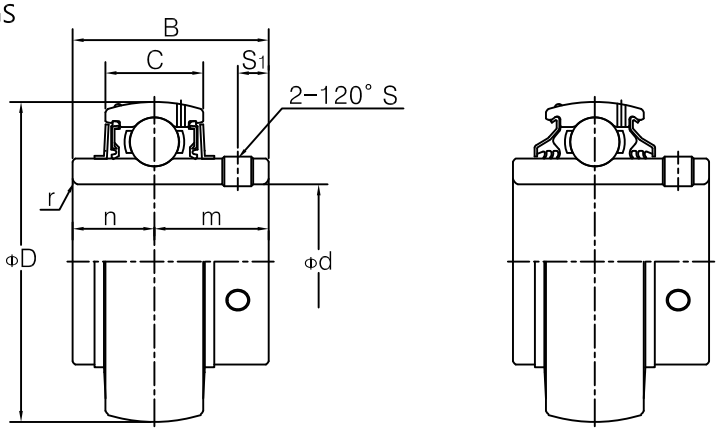


Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	Dimensions (in.) (mm) D	B	C	r	n	m	S1	S	Basic dynamic load rating (kgf)	Basic static load rating (kgf)	Weight (kgf)
UC 201		12	1.8504 47	1.2205 31	0.6299 16	0.0397 1	0.5000 12.7	0.7205 18.3	0.1969 5	M5 x 0.8 No.10-32UNF	1280	670	0.21
201-8	1/2												0.21
202		15											0.19
202-10	5/8												0.19
203		17											0.18
203-11	11/16												0.18
204-12	3/4												0.16
204		20											0.16
UC 205-13	13/16		2.0472 52	1.3425 34.1	0.6693 17	0.0397 1	0.5630 14.3	0.7795 19.8	0.2165 5.5	M5 x 0.8 No.10-32UNF	1400	790	0.23
205-14	7/8												0.23
205-15	15/16												0.21
205		25											0.20
205-16	1												0.20
UC 206-17	1 1/16		2.4409 62	1.5000 38.1	0.7480 19	0.0591 1.5	0.6260 15.9	0.8740 22.2	0.2165 5.5	M6 x 0.75 1/4-28UNF	1950	1130	0.34
206-18	1 1/8												0.34
206		30											0.32
206-19	1 3/16												0.32
206-20	1 1/4												0.32
UC 207-20	1 1/4		2.8346 72	1.6890 42.9	0.7874 20	0.0591 1.5	0.6890 17.5	1.0000 25.4	0.2559 6.5	M6 x 0.75 1/4-28UNF	2570	1540	0.54
207-21	1 5/16												0.51
207-22	1 3/8												0.48
207		35											0.48
207-23	1 7/16												0.45
UC 208-24	1 1/2		3.1496 80	1.9370 49.2	0.8268 21	0.0787 2	0.7480 19	1.1890 30.2	0.3346 8.5	M8 x 1.0 5/16-24UNF	2910	1790	0.68
208-25	1 9/16												0.65
208		40											0.64
UC 209-26	1 5/8		3.3465 85	1.9370 49.2	0.8661 22	0.0787 2	0.7480 19	1.1890 30.2	0.3346 8.5	M8 x 1.0 5/16-24UNF	3200	2040	0.78
209-27	1 11/16												0.74
209-28	1 3/4												0.70
209		45											0.68
UC 210-29	1 13/16		3.5433 90	2.0315 51.6	0.9055 23	0.0787 2	0.7480 19	1.2835 32.6	0.3937 10	M8 x 1.0 5/16-24UNF	3510	2320	0.87
210-30	1 7/8												0.87
210-31	1 15/16												0.82
210		50											0.80
210-32	2												0.80
UC 211-31	1 15/16		3.9370 100	2.1890 55.6	0.9843 25	0.0787 2	0.8740 22.2	1.3150 33.4	0.3937 10	M8 x 1.0 5/16-24UNF	4330	2940	1.26
211-32	2												1.26
211-34	2 1/8												1.15
211		55											1.11
211-35	2 3/16												1.09
UC 212-36	2 1/4		4.3307 110	2.5630 65.1	1.0630 27	0.0984 2.5	1.0000 25.4	1.5630 39.7	0.4724 12	M10 x 1.25 3/8-24UNF	5240	3610	1.67
212-37	2 5/16												1.54
212		60											1.54
212-38	2 3/8												1.52
212-39	2 7/16												1.45
UC 213-40	2 1/2		4.7244 120	2.5630 65.1	1.1417 29	0.0984 2.5	1.0000 25.4	1.5630 39.7	0.4724 12	M12 x 1.5 7/16-20UNF	5720	4000	1.94
213		65											1.85
UC 214-43	2 11/16		4.9213 125	2.9370 74.6	1.1417 29	0.0984 2.5	1.1890 30.2	1.7480 44.4	0.5118 13	M12 x 1.5 7/16-20UNF	6220	4400	2.06
214-44	2 3/4												2.06
214		70											2.05
UC 215-46	2 7/8		5.1181 130	3.0630 77.8	1.1811 30	0.0984 2.5	1.3110 33.3	1.7520 44.5	0.5118 13	M12 x 1.5 7/16-20UNF	6740	4820	2.32
215-47	2 15/16												2.32
215		75											2.21
215-48	3												2.12
UC 216		80	5.5118 140	3.2520 82.6	1.2598 32	0.1181 3	1.3110 33.3	1.9410 49.3	0.5909 15	M12 x 1.5 7/16-20UNF	7260	5300	2.79
UC 217-52	3 1/4		5.9055 150	3.3740 85.7	1.3386 34	0.1181 3	1.3425 34.1	2.0315 51.6	0.5909 15	M12 x 1.5 7/16-20UNF	8390	6180	3.66
217		85											3.45
UC 218-56	3 1/2		6.2992 160	3.7795 96	1.4173 36	0.1181 3	1.5630 39.7	2.2165 56.3	0.6299 16	M12 x 1.5 7/16-20UNF	9600	7140	4.46
218		90											4.35

SET SCREW TYPE BEARINGS

UCX

(Cylindrical bore)

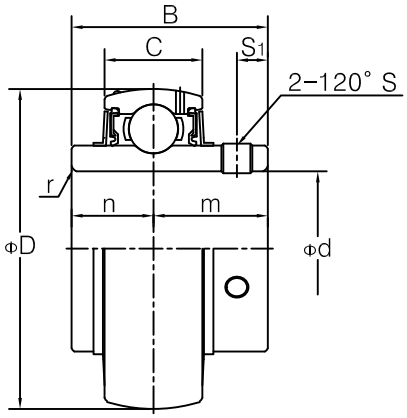


Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	D	B	C	r	n	m	S1	S	Basic dynamic load rating (kgf)	Basic static load rating (kgf)	Weight (kgf)
			Dimensions (in.) (mm)										
UCX 05-13	13/16												0.42
05-14	7/8												0.42
05-15	15/16												0.39
05		25	2.4409 62	1.5000 38.1	0.7480 19	0.0591 1.5	0.6260 15.9	0.8740 22.2	0.2362 6	M6 x 0.75 1/4-28UNF	1950	1130	0.39
05-16	1												0.38
UCX 06-17	1 1/16												0.61
X 06-18	1 1/8												0.61
X 06		30	2.8346 72	1.6890 42.9	0.7874 20	0.0591 1.5	0.6860 17.5	1.0000 25.4	0.2755 7	M6 x 0.75 1/4-28UNF	2570	1540	0.58
X 06-19	1 3/16												0.58
X 06-20	1 1/4												0.55
UCX 07-20	1 1/4												0.78
X 07-21	1 5/16												0.78
X 07-22	1 3/8												0.75
X 07		35	3.1496 80	1.9370 49.2	0.8268 21	0.0787 2	0.7480 19	1.1890 30.2	0.3543 9	M8 x 1.0 5/16-24UNF	2910	1790	0.75
X 07-23	1 7/16												0.72
UCX 08-24	1 1/2												0.87
X 08-25	1 9/16												0.87
X 08		40	3.3465 85	1.9370 49.2	0.8661 22	0.0787 2	0.7480 19	1.1890 30.2	0.3543 9	M8 x 1.0 5/16-24UNF	3200	2040	0.83
UCX 09-26	1 5/8												1.00
X 09-27	1 11/16												1.00
X 09-28	1 3/4												0.97
X 09		45	3.5433 90	2.0315 51.6	0.9055 23	0.0787 2	0.7480 19	1.2835 32.6	0.3937 10	M8 x 1.0 5/16-24UNF	3510	2320	0.95
UCX 10-30	1 7/8												1.32
X 10-31	1 15/16												1.32
X 10		50	3.9370 100	2.1890 55.6	0.9843 25	0.0787 2	0.8740 22.2	1.3150 33.4	0.3937 10	M8 x 1.0 5/16-24UNF	4330	2940	1.29
X 10-32	2												1.26
UCX 11-31	1 15/16												1.83
X 11-32	2												1.83
X 11-34	2 1/8												1.80
X 11		55	4.3307 110	2.5630 65.1	1.0630 27	0.0984 2.5	1.0000 25.4	1.5630 39.7	0.4724 12	M10 x 1.25 3/8-24UNF	5240	3610	1.80
X 11-35	2 3/16												1.78
UCX 12-36	2 1/4												2.08
X 12-37	2 5/16												2.05
X 12		60	4.7244 120	2.5630 65.1	1.1417 29	0.0984 2.5	1.0000 25.4	1.5630 39.7	0.4724 12	M12 x 1.5 7/16-20UNF	5720	4000	2.05
X 12-38	2 3/8												2.03
X 12-39	2 7/16												1.95
UCX 13-40	2 1/2												2.61
X 13		65	4.9213 125	2.9370 74.6	1.1417 29	0.0984 2.5	1.1890 30.2	1.7480 44.4	0.5118 13	M12 x 1.5 7/16-20UNF	6220	4400	2.52
UCX 14-43	2 11/16												2.78
X 14-44	2 3/4												2.75
X 14		70	5.1181 130	3.0630 77.8	1.1811 30	0.0984 2.5	1.3110 33.3	1.7520 44.5	0.5118 13	M12 x 1.5 7/16-20UNF	6740	4820	2.74
UCX 15-47	2 15/16												3.45
X 15		75	5.5118 140	3.2520 82.6	1.2598 32	0.1181 3	1.3110 33.3	1.9410 49.3	0.5905 15	M12 x 1.5 7/16-20UNF	7260	5300	3.41
X 15-48	3												3.32
UCX 16		80	5.9055 150	3.3740 85.7	1.3386 34	0.1181 3	1.3425 34.1	2.0315 51.6	0.5905 15	M12 x 1.5 7/16-20UNF	8390	6180	3.87
UCX 17-52	3 1/4												5.05
X 17		85	6.2992 160	3.7795 96	1.4173 36	0.1181 3	1.5630 39.7	2.2165 56.3	0.6299 16	M12 x 1.5 7/16-20UNF	9600	7140	4.96
X 17-55	3 7/16												4.90
X 18-56	3 1/2		6.6929 170	4.0944 104	1.5748 40	0.1378 3.5	1.6900 42.9	2.4055 61.1	0.6299 16	M14 x 1.5 9/16-18UNF	10900	8170	6.10
UCX 18		90											6.00
UCX 20		100	7.4803 190	4.6260 117.5	1.6929 43	0.1378 3.5	1.9370 49.2	2.6890 68.3	0.7087 18	M16 x 1.5 5/8-18UNF	13300	10500	8.56
X 20-63	3 15/16												8.51
X 20-64	4												8.47

SET SCREW TYPE BEARINGS

UC3

(Cylindrical bore)

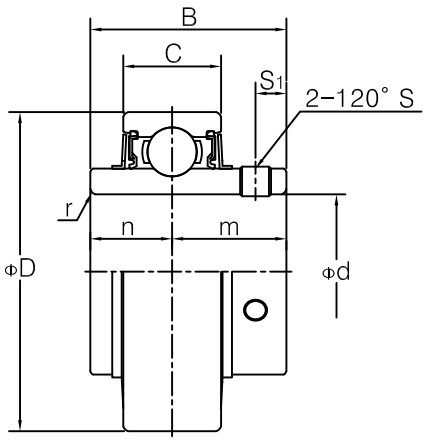


Unit No.	Shaft Dia. d		Dimensions (in.) (mm)								Basic dynamic load rating (kgf)	Basic static load rating (kgf)	Weight (kgf)
	(in.)	(mm)	D	B	C	r	n	m	S_1	S			
UC 305 305-16	1	25	2.4409 62	1.4961 38	0.8661 22	0.0787 2	0.5906 15	0.9055 23	0.2362 6	M6 x 0.75 1/4-28UNF	2100	1090	0.45 0.44
UC 306-18 306	1 1/8	30	2.8346 72	1.6929 43	0.9449 24	0.0787 2	0.6693 17	1.0236 26	0.2362 6	M6 x 0.75 1/4-28UNF	2660	1500	0.58 0.56
UC 307-20 307-22 307 307-23	1 1/4 1 3/8 1 7/16	35	3.1496 80	1.8897 48	1.0236 26	0.0984 2.5	0.7480 19	1.1417 29	0.3150 8	M8 x 1.0 5/16-24UNF	3330	1920	0.77 0.71 0.71 0.65
UC 308-24 308	1 1/2	40	3.5433 90	2.0472 52	1.1024 28	0.0984 2.5	0.7480 19	1.2992 33	0.3937 10	M10 x 1.25 3/8-24UNF	4070	2390	1.05 1.00
UC 309-28 309	1 3/4	45	3.9370 100	2.2441 57	1.1811 30	0.0984 2.5	0.8661 22	1.3780 35	0.3937 10	M10 x 1.25 3/8-24UNF	4890	2950	1.35 1.33
UC 310-31 310	1 15/16	50	4.3307 110	2.4015 61	1.2598 32	0.1181 3	0.8661 22	1.5354 39	0.4724 12	M12 x 1.5 7/16-20UNF	6200	3820	1.72 1.69
UC 311-32 311	2	55	4.7244 120	2.5984 66	1.3386 34	0.1181 3	0.9842 25	1.6142 41	0.4724 12	M12 x 1.5 7/16-20UNF	7160	4480	2.08 1.90
UC 312		60	5.1181 130	2.7953 71	1.4173 36	0.1378 3.5	1.0236 26	1.7717 45	0.4724 12	M12 x 1.5 7/16-20UNF	8180	5200	2.60
UC 313-40 313	2 1/2	65	5.5118 140	2.9528 75	1.4961 38	0.1378 3.5	1.1811 30	1.7717 45	0.4724 12	M12 x 1.5 7/16-20UNF	9270	5980	3.24 3.16
UC 314-44 314	2 3/4	70	5.9055 150	3.0709 78	1.5748 40	0.1378 3.5	1.2992 33	1.7717 45	0.4724 12	M12 x 1.5 7/16-20UNF	10400	6800	3.91 3.90
UC 315 315-48	3	75	6.2992 160	3.2283 82	1.6535 42	0.1378 3.5	1.2598 32	1.9685 50	0.5512 14	M14 x 1.5 9/16-18UNF	11300	7690	4.70 4.61
UC 316		80	6.6929 170	3.3858 86	1.7323 44	0.1378 3.5	1.3386 34	2.0472 52	0.5512 14	M14 x 1.5 9/16-18UNF	12300	8640	5.60
UC 317		85	7.0866 180	3.7795 96	1.8110 46	0.1575 4	1.5748 40	2.2047 56	0.6299 16	M16 x 1.5 5/8-18UNF	13300	9650	6.90
UC 318-56 318	3 1/2	90	7.4803 190	3.7795 96	1.8898 48	0.1575 4	1.5748 40	2.2047 56	0.6299 16	M16 x 1.5 5/8-18UNF	14300	10700	8.03 7.87
UC 319		95	7.8740 200	4.0551 103	1.9685 50	0.1575 4	1.6142 41	2.4409 62	0.7087 18	M16 x 1.5 5/8-18UNF	15300	11800	8.91
UC 320 320-64	4	100	8.4646 215	4.2519 108	2.1260 54	0.1575 4	1.6535 42	2.5984 66	0.7874 20	M18 x 1.5 5/8-18UNF	17300	14100	11.2 11.0
UC 321		105	8.8583 225	4.4094 112	2.2047 56	0.1575 4	1.7322 44	2.6772 68	0.7874 20	M18 x 1.5 5/8-18UNF	18400	15300	12.7
UC 322		110	9.4488 240	4.6063 117	2.3622 60	0.1575 4	1.8110 46	2.7953 71	0.7874 20	M18 x 1.5 5/8-18UNF	20500	17900	15.1
UC 324		120	10.2362 260	4.9606 126	2.5197 64	0.1575 4	2.0079 51	2.9527 75	0.7874 20	M18 x 1.5 5/8-18UNF	20700	18500	19.0
UC 326 326-82	5 1/8	130	11.0236 280	5.3150 135	2.6772 68	0.1969 5	2.1260 54	3.1890 81	0.7874 20	M20 x 1.5 3/4-16UNF	22900	21400	23.6 23.6
UC 328-88 328	5 1/2	140	11.8110 300	5.7086 145	2.8346 72	0.1969 5	2.3228 59	3.3858 86	0.7874 20	M20 x 1.5 3/4-16UNF	25300	24600	29.4 29.4

SET SCREW TYPE BEARINGS

UR2

(Cylindrical outside diameter)



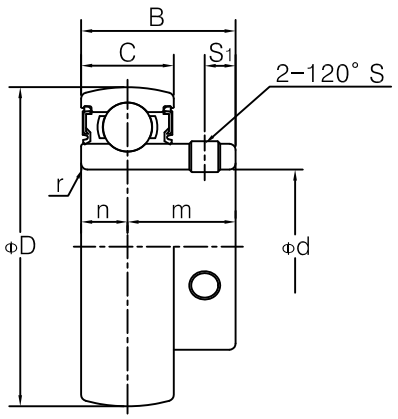
Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	Dimensions (in.) (mm) D	B	C	r	n	m	S1	S	Basic dynamic load rating (kgf)	Basic static load rating (kgf)	Weight (kgf)
UR 201		12	1.8504 47	1.2205 31	0.6299 16	0.0397 1	0.5000 12.7	0.7205 18.3	0.1969 5	M5 x 0.8 No.10-32UNF	1280	670	0.21
201-8	1/2												0.21
202		15											0.19
202-10	5/8												0.19
203		17											0.18
203-11	11/16												0.18
204-12	3/4												0.16
204		20											0.16
UR 205-13	13/16		2.0472 52	1.3425 34.1	0.6693 17	0.0397 1	0.5630 14.3	0.7795 19.8	0.2165 5.5	M5 x 0.8 No.10-32UNF	1400	790	0.23
205-14	7/8												0.23
205-15	15/16												0.21
205		25											0.20
205-16	1												0.20
UR 206-17	1 1/16		2.4409 62	1.5000 38.1	0.7480 19	0.0591 1.5	0.6260 15.9	0.8740 22.2	0.2362 6	M6 x 0.75 1/4-28UNF	1950	1130	0.34
206-18	1 1/8												0.34
206		30											0.32
206-19	1 3/16												0.32
206-20	1 1/4												0.32
UR 207-20	1 1/4		2.8346 72	1.6890 42.9	0.7874 20	0.0591 1.5	0.6890 17.5	1.0000 25.4	0.2755 7	M6 x 0.75 1/4-28UNF	2570	1540	0.54
207-21	1 5/16												0.51
207-22	1 3/8												0.48
207		35											0.48
207-23	1 7/16												0.45
UR 208-24	1 1/2		3.1496 80	1.9370 49.2	0.8268 21	0.0787 2	0.7480 19	1.1890 30.2	0.3543 9	M8 x 1.0 5/16-24UNF	2910	1790	0.68
208-25	1 9/16												0.65
208		40											0.64
UR 209-26	1 5/8		3.3465 85	1.9370 49.2	0.8661 22	0.0787 2	0.7480 19	1.1890 30.2	0.3543 9	M8 x 1.0 5/16-24UNF	3200	2040	0.78
209-27	1 11/16												0.74
209-28	1 3/4												0.70
209		45											0.68
UR 210-29	1 13/16		3.5433 90	2.0315 51.6	0.9055 23	0.0787 2	0.7480 19	1.2835 32.6	0.3937 10	M8 x 1.0 5/16-24UNF	3510	2320	0.87
210-30	1 7/8												0.87
210-31	1 15/16												0.82
210		50											0.80
210-32	2												0.80
UR 211-31	1 15/16		3.9370 100	2.1890 55.6	0.9843 25	0.0787 2	0.8740 22.2	1.3150 33.4	0.3937 10	M8 x 1.0 5/16-24UNF	4330	2940	1.26
211-32	2												1.26
211-34	2 1/8												1.15
211		55											1.11
211-35	2 3/16												1.09
UR 212-36	2 1/4		4.3307 110	2.5630 65.1	1.0630 27	0.0984 2.5	1.0000 25.4	1.5630 39.7	0.4724 12	M10 x 1.25 3/8-24UNF	5240	3610	1.67
212-37	2 5/16												1.54
212		60											1.54
212-38	2 3/8												1.52
212-39	2 7/16												1.45
UR 213-40	2 1/2		4.7244 120	2.5630 65.1	1.1417 29	0.0984 2.5	1.0000 25.4	1.5630 39.7	0.4724 12	M12 x 1.5 7/16-20UNF	5720	4000	1.94
213		65											1.85
UR 214-43	2 11/16		4.9213 125	2.9370 74.6	1.1417 29	0.0984 2.5	1.1890 30.2	1.7480 44.4	0.5118 13	M12 x 1.5 7/16-20UNF	6220	4400	2.06
214-44	2 3/4												2.06
214		70											2.05
UR 215-46	2 7/8		5.1181 130	3.0630 77.8	1.1811 30	0.0984 2.5	1.3110 33.3	1.7520 44.5	0.5118 13	M12 x 1.5 7/16-20UNF	6740	4820	2.32
215-47	2 15/16												2.32
215		75											2.21
215-48	3												2.12

SET SCREW TYPE BEARINGS

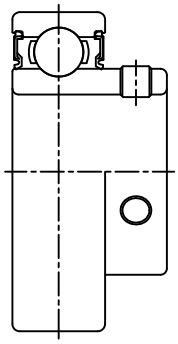
SB2 CSB2

(Cylindrical bore / Cylindrical outside diameter)

SB



CSB

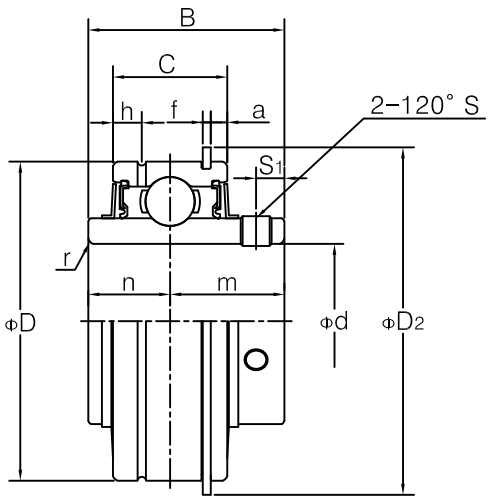


Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	Dimensions (in.) (mm) D	B	C	r	n	m	S1	S	Basic dynamic load rating (kgf)	Basic static load rating (kgf)	Weight (kgf)
SB 201		12	1.5748 40	0.8858 22.5	0.5118 13	0.0397 1	0.2559 6.5	0.6299 16	0.1968 5	M5 x 0.8 No.10-32UNF	960	480	0.10
CSB 201-8	1/2												0.10
202		15											0.10
202-10	5/8												0.10
203		17											0.10
203-11	11/16												0.10
SB 204-12	3/4		1.8504 47	1.0039 25.5	0.5906 15	0.0397 1	0.2953 7.5	0.7087 18	0.1968 5	M5 x 0.8 No.10-32UNF	1280	670	0.15
CSB 204		20											0.15
SB 205-13	13/16		2.0472 52	1.0630 27	0.5906 15	0.0397 1	0.2953 7.5	0.7677 19.5	0.2165 5.5	M5 x 0.8 No.10-32UNF	1400	790	0.18
CSB 205-14	7/8												0.18
205-15	15/16												0.18
205		25											0.16
205-16	1												0.16
SB 206-17	1 1/16		2.4409 62	1.1811 30	0.7087 18	0.0397 1	0.3543 9	0.8268 21	0.2362 6	M6 x 0.75 1/4-28UNF	1950	1130	0.28
CSB 206-18	1 1/8												0.28
206		30											0.28
206-19	1 3/16												0.28
206-20	1 1/4												0.28
SB 207-20	1 1/4		2.8346 72	1.3780 35	0.7480 19	0.0787 2	0.3740 9.5	1.0039 25.5	0.2755 7	M6 x 0.75 1/4-28UNF	2570	1540	0.42
CSB 207-21	1 5/16												0.42
207-22	1 3/8												0.38
207		35											0.38
207-23	1 7/16												0.38
SB 208-24	1 1/2		3.1496 80	1.5748 40	0.7087 22	0.0787 2	0.4331 11	1.1417 29	0.3543 9	M8 x 1.0 5/16-24UNF	2910	1790	0.60
CSB 208-25	1 9/16												0.55
208		40											0.55
SB 209-26	1 5/8		3.3465 85	1.6220 41.2	0.8661 22	0.0787 2	0.4331 11	1.1890 30.2	0.3543 9	M8 x 1.0 5/16-24UNF	3200	2040	0.58
CSB 209-27	1 11/16												0.58
209-28	1 3/4												0.58
209		45											0.58
SB 210-29	1 13/16		3.5433 90	1.7165 43.6	0.8661 22	0.0787 2	0.4331 11	1.2835 32.6	0.3937 10	M8 x 1.0 5/16-24UNF	3510	2320	0.72
CSB 210-30	1 7/8												0.72
210-31	1 15/16												0.72
210		50											0.72
210-32	2												0.72
SB 211-31	1 15/16		3.9370 100	1.7874 45.4	0.9449 24	0.0984 2.5	0.4724 12	1.3150 33.4	0.3937 10	M8 x 1.0 5/16-24UNF	4330	2940	0.99
CSA 211-32	2												0.99
211-34	2 1/8												0.99
211		55											0.99
211-35	2 3/16												0.99
SB 212-36	2 1/4		4.3307 110	2.0945 53.2	1.0630 27	0.0984 2.5	0.5315 13.5	1.5630 39.7	0.4724 12	M10 x 1.25 3/8-24UNF	5240	3610	1.26
CSB 212-37	2 5/16												1.26
212		60											1.26
212-38	2 3/8												1.26
212-39	2 7/16												1.26

SET SCREW TYPE BEARINGS

SER2

(Cylindrical bore)

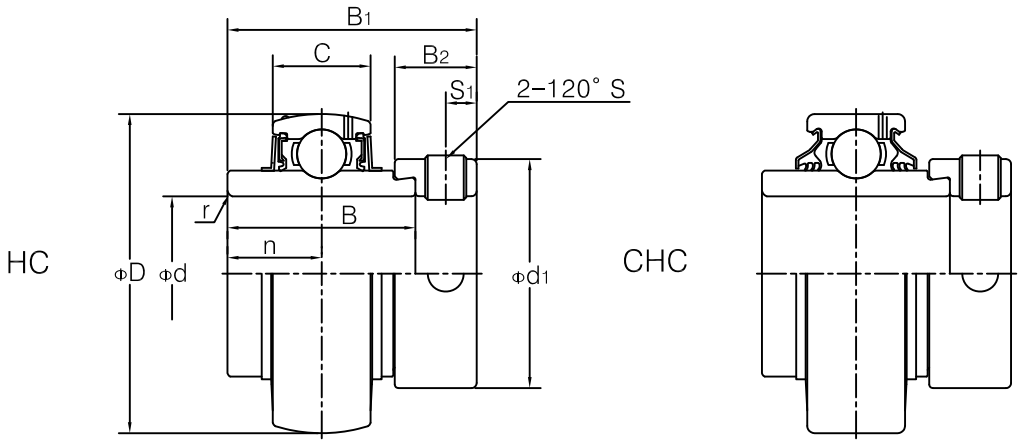


Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	D	D2	B	C	r	n	m	S1	h	f	a	S	Basic dynamic load rating (kgf)	Basic static load rating (kgf)	Weight (kgf)
			Dimensions (in.) (mm)														
SER 201		12	1.8504 47	2.0669 52.5	1.2205 31	0.6220 15.8	0.0397 1	0.5 12.7	0.7204 18.3	0.1969 5	0.1378 3.5	0.0421 1.07	0.0937 2.38	M5 x 0.8 No.10-32UNF	1280	670	0.27
201-8	1/2																0.27
202		15															0.25
202-10	5/8																0.25
203		17															0.24
203-11	11/16																0.24
SER 204-12	3/4																0.22
204		20															0.22
SER 205-13	13/16		2.0472 52	2.2637 57.5	1.3425 34.1	0.7500 19.05	0.0397 1	0.5629 14.3	0.7795 19.8	0.2165 5.5	0.1969 5	0.0421 1.07	0.0937 2.38	M5 x 0.8 No.10-32UNF	1400	790	0.3
205-14	7/8																0.3
205-15	15/16																0.28
205		25															0.27
205-16	1																0.27
SER 206-17	1 1/16		2.4409 62	2.6575 67.5	1.5000 38.1	0.8740 22.2	0.0591 1.5	0.6260 15.9	0.8740 22.2	0.2165 5.5	0.2165 5.5	0.0650 1.65	0.1252 3.18	M6 x 0.75 1/4-28UNF	1950	1130	0.41
206-18	1 1/8																0.41
206		30															0.39
206-19	1 3/16																0.39
206-20	1 1/4																0.37
SER 207-20	1 1/4		2.8346 72	3.0866 78.4	1.6890 42.9	0.9370 23.8	0.0591 1.5	0.6890 17.5	1.0000 25.4	0.2559 6.5	0.2165 5.5	0.0650 1.65	0.1252 3.18	M6 x 0.75 1/4-28UNF	2570	1540	0.69
207-21	1 5/16																0.66
207-22	1 3/8																0.64
207		35															0.63
207-23	1 7/16																0.61
SER 208-24	1 1/2		3.1496 80	3.4016 86.4	1.9370 49.2	1.0945 27.8	0.0787 2	0.7480 19	1.1890 30.2	0.3346 8.5	0.2362 6	0.0650 1.65	0.1252 3.18	M8 x 1.0 5/16-24UNF	2910	1790	0.85
208-25	1 9/16																0.82
208		40															0.81
SER 209-26	1 5/8		3.3465 85	3.5984 91.4	1.9370 49.2	1.0945 27.8	0.0787 2	0.7480 19	1.1890 30.2	0.3346 8.5	0.2362 6	0.0650 1.65	0.1252 3.18	M8 x 1.0 5/16-24UNF	3200	2040	1.0
209-27	1 11/16																0.96
209-28	1 3/4																0.92
209		45															0.90
SER 210-29	1 13/16		3.5433 90	3.7913 96.3	2.0315 51.6	1.1220 28.5	0.0787 2	0.7480 19	1.2835 32.6	0.3937 10	0.2953 7.5	0.0949 2.41	0.1252 3.18	M8 x 1.0 5/16-24UNF	3510	2320	1.05
210-30	1 7/8																1.05
210-31	1 15/16																1.0
210		50															0.98
210-32	2																0.96
SER 211-31	1 15/16		3.9370 100	4.1850 106.3	2.1890 55.6	1.1850 30.1	0.0787 2	0.8740 22.2	1.3150 33.4	0.3937 10	0.2953 7.5	0.0949 2.41	0.1252 3.18	M8 x 1.0 5/16-24UNF	4330	2940	1.56
211-32	2																1.56
211-34	2 1/8																1.45
211		55															1.41
211-35	2 3/16																1.39
SER 212-36	2 1/4		4.3307 110	4.5827 116.4	2.5630 65.1	1.2480 31.7	0.0984 2.5	1.0000 25.4	1.5630 39.7	0.4724 12	0.2953 7.5	0.0949 2.41	0.1251 3.18	M10 x 1.25 3/8-24UNF	5240	3610	2.02
212-37	2 5/16																2.02
212		60															1.89
212-38	2 3/8																1.87
212-39	2 7/16																1.8

ECCENTRIC LOCKING COLLAR TYPE BEARINGS

HC2 CHC2

(Cylindrical bore / Cylindrical outside diameter)

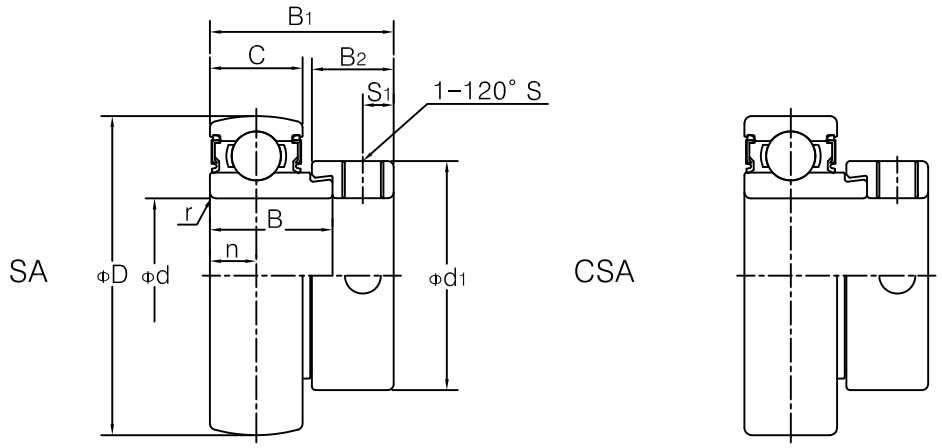


Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	D	d1	B1	C	r	B	n	B2	S1	S	Basic dynamic load rating (kgf)	Basic static load rating (kgf)	Weight (kgf)
			Dimensions (in.) (mm)												
HC 201		12	1.8504 47	1.3110 33.3	1.7204 43.7	0.6299 16	0.0397 1	1.3465 34.2	0.6732 17.1	0.5315 13.5	0.1890 4.8	M6 x 0.75 1/4-28UNF	1280	670	0.29
CHC 201-8	1/2														0.29
202-9	9/16														0.27
202		15													0.27
202-10	5/8														0.26
203		17													0.25
203-11	11/16														0.23
204-12	3/4														0.23
204		20													0.22
HC 205-13	13/16		2.0472 52	1.5000 38.1	1.7480 44.4	0.6693 17	0.0397 1	1.3741 34.9	0.6870 17.45	0.5315 13.5	0.1890 4.8	M6 x 0.75 1/4-28UNF	1400	790	0.29
CHC 205-14	7/8														0.29
205-15	15/16														0.27
205		25													0.25
205-16	1														0.25
HC 206-17	1 1/16		2.4409 62	1.7520 44.5	1.9055 48.4	0.7480 19	0.0397 1	1.4370 36.5	0.7185 18.25	0.6260 15.9	0.2362 6	M8 x 1 5/16-24UNF	1950	1130	0.43
CHC 206-18	1 1/8														0.43
206		30													0.41
206-19	1 3/16														0.41
206-20	1 1/4														0.38
HC 207-20	1 1/4		2.8346 72	2.1890 55.6	2.0157 51.1	0.7874 20	0.0787 2	1.4804 37.6	0.7402 18.8	0.6890 17.5	0.2677 6.8	M8 x 1 5/16-24UNF	2570	1540	0.68
CHC 207-21	1 5/16														0.68
207-22	1 3/8														0.61
207		35													0.61
207-23	1 7/16														0.58
HC 208-24	1 1/2		3.1496 80	2.3740 60.3	2.2205 56.3	0.8268 21	0.0787 2	1.6851 42.8	0.8425 21.4	0.7205 18.3	0.2677 6.8	M8 x 1 5/16-24UNF	2910	1790	0.83
CHC 208-25	1 9/16														0.79
208		40													0.78
HC 209-26	1 5/8		3.3465 85	2.5000 63.5	2.2205 56.3	0.8661 22	0.0787 2	1.6851 42.8	0.8425 21.4	0.7205 18.3	0.2677 6.8	M8 x 1 5/16-24UNF	3200	2040	0.96
CHC 209-27	1 11/16														0.91
209-28	1 3/4														0.87
209		45													0.85
HC 210-29	1 13/16		3.5433 90	2.7520 69.9	2.4685 62.7	0.9055 23	0.0787 2	1.9370 49.2	0.9685 24.6	0.7205 18.3	0.2677 6.8	M8 x 1 5/16-24UNF	3510	2320	1.09
CHC 210-30	1 7/8														1.04
210-31	1 15/16														1.04
210		50													1.01
210-32	2														1.01
HC 211-31	1 15/16		3.9370 100	3.0000 76.2	2.8110 71.4	0.9843 25	0.0984 2.5	2.1851 55.5	1.0925 27.75	0.8189 20.7	0.3150 8	M12 x 1.5 7/16-20UNF	4330	2940	1.58
CHC 211-32	2														1.58
211-34	2 1/8														1.39
211		55													1.36
211-35	2 3/16														1.36
HC 212-36	2 1/4		4.3307 110	3.3150 84.2	3.0630 77.8	1.0630 27	0.0984 2.5	2.4370 61.9	1.2185 30.95	0.8740 22.3	0.3150 8	M12 x 1.5 7/16-20UNF	5240	3610	2.03
CHC 212-37	2 5/16														2.03
212		60													1.87
212-38	2 3/8														1.87
212-39	2 7/16														1.76

ECCENTRIC LOCKING TYPE BEARINGS

SA2 CSA2

(Cylindrical bore / Cylindrical outside diameter)

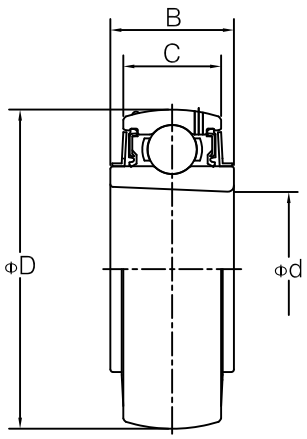


Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	Dimensions (in.) (mm) D	d1	B1	C	r	B	n	B2	S1	S	Basic dynamic load rating (kgf)	Basic static load rating (kgf)	Weight (kgf)
SA 201		12													0.13
CSA 201-8	1/2														0.13
202		15	1.5748	1.1260	1.1260	0.5119	0.0397	0.7520	0.2559	0.5315	0.1890	M6 x 0.75	960	480	0.13
202-10	5/8		40	28.6	28.6	13	1	19.1	6.5	13.5	4.8	1/4-28UNF			0.13
203		17													0.13
203-11	11/16														0.13
SA 204-12	3/4		1.8504	1.2598	1.2205	0.5906	0.0397	0.8425	0.2756	0.5315	0.1890	M6 x 0.75	1280	670	0.15
CSA 204		20	47	33.3	31	15	1	21.5	7.5	13.5	4.8	1/4-28UNF			0.15
SA 205-13	13/16														0.22
CSA 205-14	7/8														0.22
205-15	15/16		2.0472	1.5000	1.2205	0.5906	0.0397	0.8465	0.2953	0.5315	0.1890	M6 x 0.75	1400	790	0.22
205		25	52	38.1	31	15	1	21.5	7.5	13.5	4.8	1/4-28UNF			0.22
205-16	1														0.22
SA 206-17	1 1/16														0.31
CSA 206-18	1 1/8														0.31
206		30	2.4409	1.7480	1.4055	0.7087	0.0397	0.9370	0.3150	0.6260	0.2362	M8 x 1	1950	1130	0.31
206-19	1 3/16		62	44.5	35.7	18	1	23.8	9	15.9	6	5/16-24UNF			0.31
206-20	1 1/4														0.31
SA 207-20	1 1/4														0.51
CSA 207-21	1 5/16														0.51
207-22	1 3/8		2.8346	2.1890	1.5314	0.7481	0.0787	1.0000	0.3740	0.6890	0.2677	M8 x 1	2570	1540	0.51
207		35	72	55.6	38.9	19	2	25.4	9.5	17.5	6.8	5/16-24UNF			0.51
207-23	1 7/16														0.51
SA 208-24	1 1/2														0.66
CSA 208-25	1 9/16		3.1496	2.3740	1.7205	0.8662	0.0787	1.1890	0.4330	0.7205	0.2677	M8 x 1	2910	1790	0.66
208		40	80	60.3	43.7	22	2	30.2	11	18.3	6.8	5/16-24UNF			0.66
SA 209-26	1 5/8														0.67
CSA 209-27	1 11/16		3.3465	2.5000	1.7205	0.8662	0.0787	1.1890	0.4330	0.7205	0.2677	M8 x 1	3200	2040	0.67
209-28	1 3/4		85	63.5	43.7	22	2	30.2	11	18.3	6.8	5/16-24UNF			0.67
209		45													0.67
SA 210-29	1 13/16														0.77
CSA 210-30	1 7/8														0.77
210-31	1 15/16		3.5433	2.7480	1.7205	0.8662	0.0787	1.1890	0.4330	0.7205	0.2677	M8 x 1	3510	2320	0.77
210		50	90	69.9	43.7	22	2	30.2	11	18.3	6.8	5/16-24UNF			0.77
210-32	2														0.77
SA 211-31	1 15/16														1.04
CSA 211-32	2														1.04
211-34	2 1/8		3.9370	3.0000	1.9055	0.9449	0.0984	1.2795	0.4724	0.8189	0.3150	M12 x 1.5	4330	2940	1.04
211		55	100	76.2	48.4	24	2.5	32.5	12	20.7	8	7/16-20UNF			1.04
211-35	2 3/16														1.04
SA 212-36	2 1/4														1.41
CSA 212-37	2 5/16														1.41
212		60	4.3307	3.3110	2.0906	1.0630	0.0984	1.4646	0.5315	0.8740	0.3150	M12 x 1.5	5240	3610	1.41
212-38	2 3/8		110	84.2	53.1	27	2.5	37.2	13.5	22.3	8	7/16-20UNF			1.41
212-39	2 7/16														1.41

ADAPTER TYPE BEARINGS

UK2

(Tapered bore)

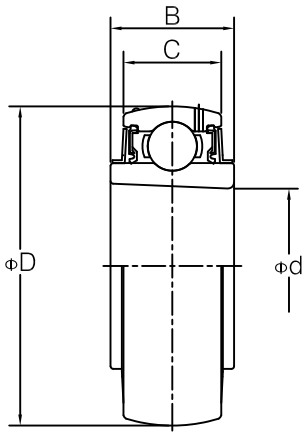


Unit No.	Shaft Dia. d(in.) (mm)	Dimensions (in.) (mm) D	B	C	Basic dynamic load rating (kgf)	Basic static load rating (kgf)	Weight (kgf)
UK 205	0.9843 25	2.0472 52	0.9055 23	0.6693 17	1400	790	0.16
UK 206	1.1811 30	2.4409 62	1.0236 26	0.7480 19	1950	1130	0.25
UK 207	1.3780 35	2.8346 72	1.0630 27	0.7874 20	2570	1540	0.37
UK 208	1.5748 40	3.1496 80	1.1417 29	0.8268 21	2910	1790	0.47
UK 209	1.7717 45	3.3465 85	1.1811 30	0.8661 22	3200	2040	0.52
UK 210	1.9685 50	3.5433 90	1.2205 31	0.9055 23	3510	2320	0.59
UK 211	2.1654 55	3.9370 100	1.2992 33	0.9843 25	4330	2940	0.80
UK 212	2.3622 60	4.3307 110	1.4173 36	1.0630 27	5240	3610	1.02
UK 213	2.5591 65	4.7244 120	1.4961 38	1.1417 29	5720	4000	1.34
UK 215	2.9528 75	5.1181 130	1.6142 41	1.1811 30	6740	4820	1.50
UK 216	3.1496 80	5.5118 140	1.7323 44	1.2598 32	7260	5300	1.96
UK 217	3.3465 85	5.9055 150	1.8110 46	1.3386 34	8390	6180	2.42
UK 218	3.5433 90	6.2992 160	1.9291 49	1.4173 36	9600	7140	2.90

ADAPTER TYPE BEARINGS

UKX

(Tapered bore)

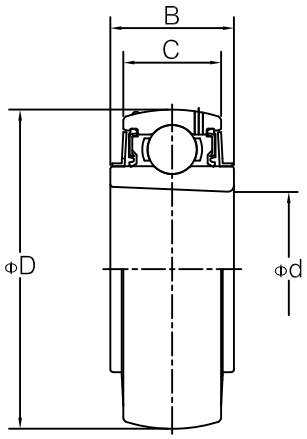


Unit No.	Shaft Dia. d(in.) (mm)	Dimensions (in.) (mm) D	B	C	Basic dynamic load rating (kgf)	Basic static load rating (kgf)	Weight (kgf)
UK X 05	0.9843 25	2.4409 62	1.0236 26	0.7480 19	1950	1130	0.27
UK X 06	1.1811 30	2.8346 72	1.0630 27	0.7824 20	2570	1540	0.43
UK X 07	1.3780 35	3.1496 80	1.1417 29	0.8268 21	2910	1790	0.53
UK X 08	1.5748 40	3.3465 85	1.1811 30	0.8661 22	3200	2040	0.58
UK X 09	1.7717 45	3.5433 90	1.2205 31	0.9055 23	3510	2320	0.67
UK X 10	1.9685 50	3.9370 100	1.2992 33	0.9843 25	4330	2940	0.89
UK X 11	2.1654 55	4.3307 110	1.4173 36	1.0630 27	5240	3610	1.15
UK X 12	2.3622 60	4.7244 120	1.4961 38	1.1417 29	5720	4000	1.45
UK X 13	2.5591 65	4.9213 125	1.5748 40	1.1417 29	6220	4400	1.62
UK X 15	2.9528 75	5.5118 140	1.7323 44	1.2598 32	7260	5300	2.10
UK X 16	3.1496 80	5.9055 150	1.8110 46	1.3386 34	8390	6180	2.64
UK X 17	3.3465 85	6.2992 160	1.9291 49	1.4173 36	9600	7140	3.25
UK X 18	3.5433 90	6.6929 170	1.9685 50	1.5748 40	10900	8170	3.80
UK X 20	3.9370 100	7.4803 190	2.1260 54	1.6929 43	13300	10500	5.36

ADAPTER TYPE BEARINGS

UK3

(Tapered bore)

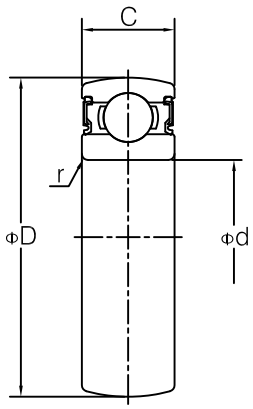


Unit No.	Shaft Dia. d(in.) (mm)	Dimensions (in.) (mm) D	B	C	Basic dynamic load rating (kgf)	Basic static load rating (kgf)	Weight (kgf)
UK 305	0.9843 25	2.4409 62	1.0630 27	0.8661 22	2100	1090	0.40
UK 306	1.1811 30	2.8346 72	1.1811 30	0.9449 24	2660	1500	0.47
UK 307	1.3780 35	3.1496 80	1.2992 33	1.0236 26	3330	1920	0.60
UK 308	1.5748 40	3.5433 90	1.3780 35	1.1024 28	4070	2390	0.80
UK 309	1.7717 45	3.9370 100	1.4961 38	1.1811 30	4890	2950	1.08
UK 310	1.9685 50	4.33070 110	1.5748 40	1.2598 32	6200	3820	1.38
UK 311	2.1654 55	4.7244 120	1.6929 43	1.3386 34	7160	4480	1.78
UK 312	2.3622 60	5.1181 130	1.8110 46	1.4173 36	8180	5200	2.06
UK 313	2.5591 65	5.5118 140	1.8898 48	1.4961 38	9270	5980	2.71
UK 315	2.9528 75	6.2992 160	2.1260 54	1.6535 42	11300	7690	3.80
UK 316	3.1496 80	6.6929 170	2.2441 57	1.7323 44	12300	8640	4.39
UK 317	3.3465 85	7.0866 180	2.3622 60	1.8110 46	13300	9650	5.30
UK 318	3.5433 90	7.4803 190	2.4803 63	1.8898 48	14300	10700	6.20
UK 319	3.7402 95	7.8740 200	2.5984 66	1.9685 50	15300	11800	7.31
UK 320	3.9370 100	8.4646 215	2.7559 70	2.1260 54	17300	14100	8.70
UK 322	4.3307 110	9.4488 240	3.1496 80	2.3622 60	20500	17900	12.2
UK 324	4.7244 120	10.2362 260	3.3858 86	2.5197 64	20700	18500	16.1
UK 326	5.1181 130	11.0236 280	3.6220 92	2.6772 68	22900	21400	18.8
UK 328	5.5118 140	11.8110 300	3.8583 98	2.8346 72	25300	24600	23.9

TIGHT FIT TYPE BEARINGS

SC2

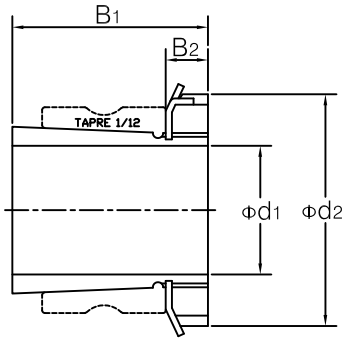
(Cylindrical bore)

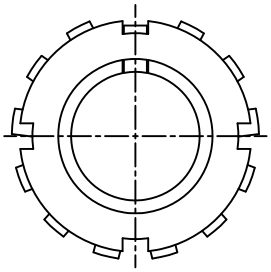


Unit No.	Shaft Dia. d(In.) (mm)	Dimensions (in.) (mm) D	C	r	Basic dynamic load rating (kgf)	Basic static load rating (kgf)	Weight (kgf)
SC 201	0.4724 12	1.2598 32	0.3937 10	0.0397 1	690	300	0.035
SC 202	0.5906 15	1.3780 35	0.4331 11	0.0397 1	760	370	0.040
SC 203	0.6693 17	1.5748 40	0.4724 12	0.0397 1	960	480	0.074
SC 204	0.7874 20	1.8504 47	0.5512 14	0.0397 1	1280	670	0.116
SC 205	0.9843 25	2.0472 52	0.5906 15	0.0397 1	1400	790	0.180
SC 206	1.1811 30	2.4409 62	0.6299 16	0.0397 1	1950	1130	0.219
SC 207	1.3780 35	2.8346 72	0.6693 17	0.0787 2	2570	1540	0.327
SC 208	1.5748 40	3.1496 80	0.7087 18	0.0787 2	2910	1790	0.422
SC 209	1.7717 45	3.3465 85	0.7480 19	0.0787 2	3200	2040	0.468
SC 210	1.9685 50	3.5433 90	0.7874 20	0.0787 2	3510	2320	0.495
SC 211	2.1654 55	3.9370 100	0.8268 21	0.0984 2.5	4330	2940	0.678
SC 212	2.3622 60	4.3307 110	0.8661 22	0.0984 2.5	5240	3610	0.911

ADAPTERS

H2300, HS2300, HE2300

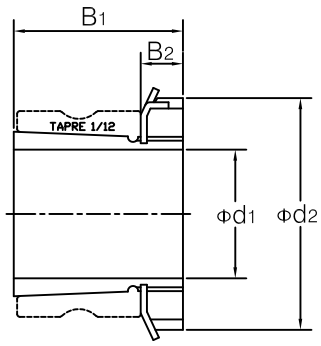


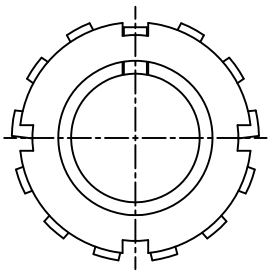


Adapter No.	Bore Dia. of sleeve d1 (in.)	Bore Dia. of sleeve d1 (mm)	Dimensions (in.) (mm) B1	Dimensions (in.) (mm) B2	Dimensions (in.) (mm) d2	Sleeve No.	Locknut No.	Washer No.	Weight (kgf)
HE 2305X H 2305X	3/4	20	1 3/8 35	5/16 8	1 1/2 38	AE 2305X A 2305X	AN 05	AW 05X	0.085 0.095
H 2306X HE 2306X	1	25	1 1/2 38	5/16 8	1 3/4 45	A 2306X AE 2306X	AN 06	AW 06X	0.13 0.12
HS 2307X H 2307X	1 1/8	30	1 11/16 43	3/8 9	2 1/16 52	AS 2307X A 2307X	AN 07	AW 07X	0.19 0.17
HE 2308X HS 2308X H 2308X	1 1/4 1 3/8	35	1 13/16 46	13/32 10	2 9/32 58	AE 2308X AS 2308X A 2308X	AN 08	AW 08X	0.28 0.22 0.22
HE 2309X H 2309X HS 2309X	1 1/2 1 5/8	40	1 31/32 50	7/16 11	2 9/16 65	AE 2309X A 2309X AS 2309X	AN 09	AW 09X	0.32 0.28 0.25
HE 2310X H 2310X	1 3/4	45	2 5/32 55	15/32 12	2 3/4 70	AE 2310X A 2310X	AN 10	AW 10X	0.37 0.36
HE 2311X H 2311X HS 2311X	1 7/8 2	50	2 5/16 59	15/32 12	2 15/16 75	AS 2311X A 2311X AE 2311X	AN 11	AW 11X	0.50 0.42 0.40
HE 2312X H 2312X	2 1/8	55	2 7/16 62	1/2 13	3 5/32 80	AS 2312X A 2312X	AN 12	AW 12X	0.52 0.48
HE 2313X H 2313X HS 2313X	2 1/4 2 3/8	60	2 9/16 65	17/32 14	3 11/32 85	AE 2313X A 2313X AS 2313X	AN 13	AW 13X	0.69 0.56 0.55
HE 2315X H 2315X	2 1/2	65	2 7/8 73	9/16 15	3 27/32 98	AE 2315X A 2315X	AN 15	AW 15X	1.15 1.05
HE 2316X H 2316X	2 3/4	70	3 1/16 78	21/32 17	4 1/8 105	AE 2316X A 2316X	AN 16	AW 16X	1.3 1.3
H 2317X HE 2317X	3	75	3 7/32 82	11/16 18	11/32 110	A 2317X AE 2317X	AN 17	AW 17X	1.45 1.35
H 2318X		80	3 3/8 86	11/16 18	4 23/32 120	A 2318X	AN 18	AW 18X	1.7
HE 2319X H 2319X	3 1/4	85	3 17/32 90	3/4 19	4 29/32 125	AE 2319X A 2319X	AN 19	AW 19X	2.15 1.95
HE 2320X H 2320X	3 1/2	90	3 13/16 97	25/32 20	5 1/8 130	AE 2320X A 2320X	AN 20	AW 20X	2.3 2.2
H 2322X HE 2322X	4	100	4 1/8 105	13/16 21	5 23/32 145	A 2322X AE 2322X	AN 22	AW 22X	2.75 2.55
H 2324X		110	4 13/32 112	7/8 22	6 3/32 155	A 2324X	AN 24	AW 24X	3.2
HE 2326X H 2326X	4 1/2	115	4 3/4 121	29/32 23	6 1/2 165	AE 2326X A 2326X	AN 26	AW 26X	4.7 4.6
H 2328X		125	5 5/32 131	15/16 24	7 3/32 180	A 2328X	AN 28	AW 28X	5.5

ADAPTERS

H300, HS300, HE300





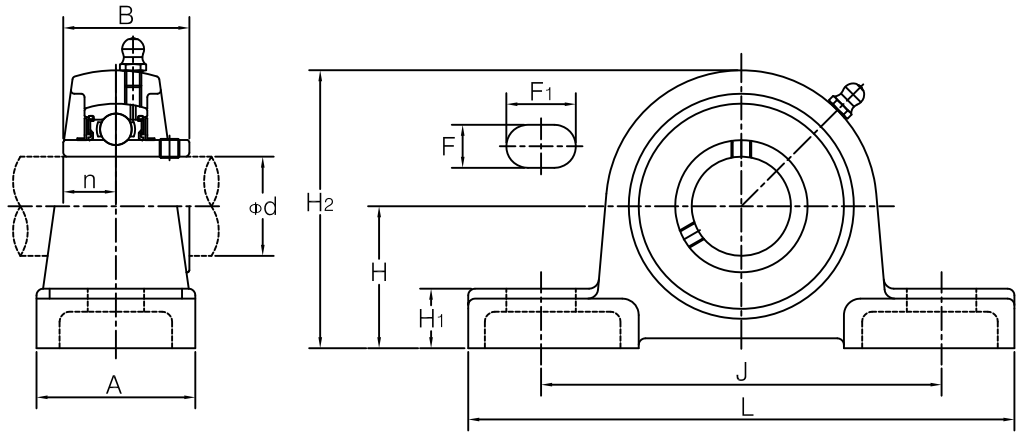
Adapter No.	Bore Dia. of sleeve d1 (in.)	Bore Dia. of sleeve d1 (mm)	Dimensions (in.) (mm) B1	B2	d2	Sleeve No.	Locknut No.	Washer No.	Weight (kgf)
HE 305X H 305X	3/4	20	1 5/32 29	5/16 8	1 1/2 38	AE 305X A 305X	AN 05	AW 05X	0.08 0.075
H 306X HE 306X	1	25	1 7/32 31	5/16 8	1 3/4 45	A 306X AE 306X	AN 06	AW 06X	0.11 0.105
HS 307X H 307X	1 1/8	30	1 3/8 35	3/8 9	2 1/16 52	AS 307X A 307X	AN 07	AW 07X	0.15 0.14
HE 308X HS 308X H 308X	1 1/4 1 3/8	35	1 13/32 36	13/32 10	2 9/32 58	AE 308X AS 308X A 308X	AN 08	AW 08X	0.23 0.19 0.19
HE 309X H 309X HS 309X	1 1/2 1 5/8	40	1 17/32 39	7/16 11	2 9/16 65	AE 309X A 309X AS 309X	AN 09	AW 09X	0.28 0.25 0.23
HE 310X H 310X	1 3/4	45	1 21/32 42	15/32 12	2 3/4 70	AE 310X A 310X	AN 10	AW 10X	0.31 0.30
HE 311X H 311X HS 311X	1 7/8 2	50	1 25/32 45	15/32 12	2 15/16 75	AS 311X A 311X AE 311X	AN 11	AW 11X	0.41 0.35 0.33
HE 312X H 312X	2 1/8	55	1 27/32 47	1/2 13	3 5/32 80	AS 312X A 312X	AN 12	AW 12X	0.40 0.43
HE 313X H 313X HS 313X	2 1/4 2 3/8	60	1 31/32 50	17/32 14	3 11/32 85	AE 313X A 313X AS 313X	AN 13	AW 13X	0.56 0.46 0.45
HE 315X H 315X	2 1/2	65	2 5/32 55	9/16 15	3 27/32 98	AE 315X A 315X	AN 15	AW 15X	0.89 0.83
HE 316X H 316X	2 3/4	70	2 5/16 59	21/32 17	4 1/8 105	AE 316X A 316X	AN 16	AW 16X	1.05 1.05
H 317X HE 317X	3	75	2 15/32 63	11/16 18	4 11/32 110	A 317X AE 317X	AN 17	AW 17X	1.2 1.1
H 318X		80	2 9/16 65	11/16 18	4 23/32 120	A 318X	AN 18	AW 18X	1.4

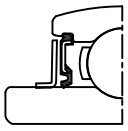
D. Stainless series dimension table

STAINLESS SERIES PILLOW BLOCK UNITS

SUCP2

(Cylindrical bore)



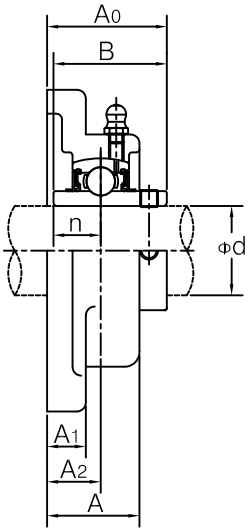


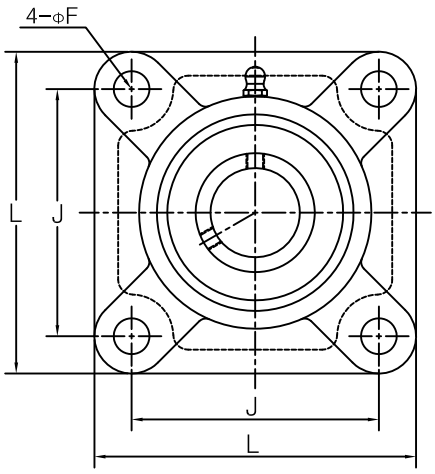
Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	H	L	A	J	F	F1	H1	H2	B	n	Bolt used (mm)	Bolt used (in.)	Bearing No.	Housing No.	Weight (kgf)
SUCP 201		12													SUC 201		0.71
201-8	1/2														201-8		0.71
202		15													202		0.69
202-10	5/8		15/16 33.3	459/64 125	13/16 30	347/64 95	33/64 13	3/4 19	15/32 12	233/64 64	1.2205 31.0	0.5000 12.7	10	3/8	202-10	SP 204	0.69
203		17													203		0.68
203-11	11/16														203-11		0.68
204-12	3/4														204-12		0.66
204		20													204		0.66
SUCP 205-13	13/16														SUC 205-13		0.8
205-14	7/8														205-14		0.8
205-15	15/16		17/16 36.5	533/64 140	117/64 32	49/64 105	33/64 13	3/4 19	33/64 13	23/4 70	1.3425 34.1	0.5630 14.3	10	3/8	205-15	SP 205	0.8
205		25													205		0.8
205-16	1														205-16		0.8
SUCP 206-17	1 1/16														SUC 206-17		1.3
206-18	1 1/8														206-18		1.3
206		30	1 11/16 42.9	6 19/64 160	1 27/64 36	4 49/64 121	43/64 17	53/64 21	35/64 14	3 15/64 82	1.5000 38.1	0.6260 15.9	14	1/2	206	SP 206	1.3
206-19	1 3/16														206-19		1.3
206-20	1 1/4														206-20		1.3
SUCP 207-20	1 1/4														SUC 207-20		1.6
207-21	1 5/16														207-21		1.6
207-22	1 3/8		17/8 47.6	6 17/32 166	1 1/2 38	5 127	43/64 17	53/64 21	19/32 15	35/8 92	1.6890 42.9	0.6890 17.5	14	1/2	207-22	SP 207	1.6
207		35													207		1.6
207-23	1 7/16														207-23		1.6
SUCP 208-24	1 1/2														SUC 208-24		2.0
208-25	1 9/16		1 15/16 49.2	7 3/64 179	1 21/32 42	5 25/64 137	43/64 17	53/64 21	19/32 15	3 55/64 98	1.9370 49.2	0.7480 19.0	14	1/2	208-25	SP 208	2.0
208		40													208		2.0
SUCP 209-26	1 5/8														SUC 209-26		2.2
209-27	1 11/16														209-27		2.2
209-28	1 3/4		21/8 54.0	7 9/32 185	1 47/64 44	5 3/4 146	43/64 17	53/64 21	43/64 17	49/64 105	1.9370 49.2	0.7480 19.0	14	1/2	209-28	SP 209	2.2
209		45													209		2.2
SUCP 210-29	1 13/16														SUC 210-29		2.9
210-30	1 7/8														210-30		2.9
210-31	1 15/16		21/4 57.2	7 29/32 201	1 57/64 48	6 17/64 159	25/32 20	1 25	45/64 18	4 13/32 112	2.0315 51.6	0.7480 19.0	16	5/8	210-31	SP 210	2.9
210		50													210		2.9
210-32	2														210-32		2.9
SUCP 211-31	1 15/16														SUC 211-31		3.6
211-32	2														211-32		3.6
211-34	2 1/8		21/2 63.5	8 27/64 214	1 31/32 50	6 47/64 171	25/32 20	1 25	25/32 20	4 27/32 123	2.1890 55.6	0.8740 22.2	16	5/8	211-34	SP 211	3.6
211		55													211		3.6
211-35	2 3/16														211-35		3.6
SUCP 212-36	2 1/4														SUC 212-36		4.9
212-37	2 5/16														212-37		4.9
212		60	23/4 69.8	9 19/64 236	2 13/64 56	7 15/64 184	25/32 20	1 25	55/64 22	5 5/16 135	2.5630 65.1	1.0000 25.4	16	5/8	212	SP 212	4.9
212-38	2 3/8														212-38		4.9
212-39	2 7/16														212-39		4.9

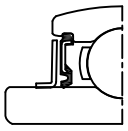
STAINLESS SERIES SQUARE FLANGE TYPE UNITS

SUCF2

(Cylindrical bore)





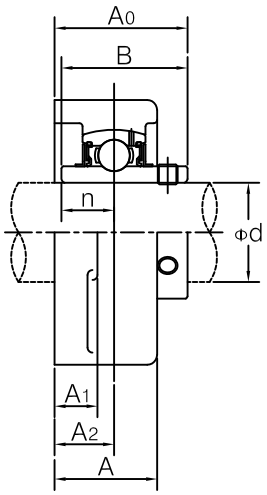


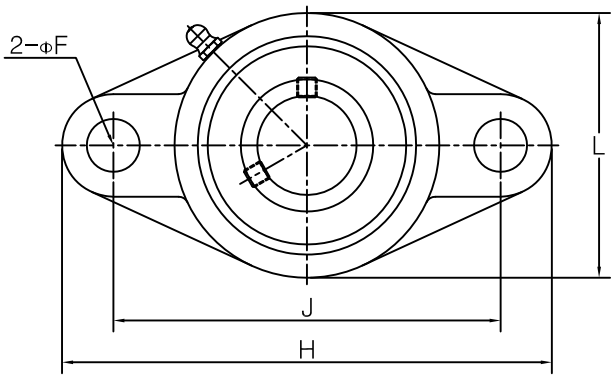
Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	Dimensions (in.) (mm) L	A	J	F	A_1	A_2	A_0	B	n	Bolt used (mm)	Bolt used (in.)	Bearing No.	Housing No.	Weight (kgf)
SUCF 201		12												SUC 201		0.64
201-8	1/2													201-8		0.64
202		15												202		0.62
202-10	5/8		3 25/64 86	1 25.5	2 33/64 64	15/32 12	15/32 12	19/32 15	1 5/16 33.3	1.2205 31.0	0.5000 12.7	10	3/8	202-10	SF 204	0.62
203		17												203		0.61
203-11	11/16													203-11		0.61
204-12	3/4													204-12		0.59
204		20												204		0.59
SUCF 205-13	13/16													SUC 205-13		0.83
205-14	7/8													205-14		0.83
205-15	15/16		3 47/64 95	1 1/16 27	2 3/4 70	15/32 12	35/64 14	5/8 16	1 13/32 35.8	1.3425 34.1	0.5630 14.3	10	3/8	205-15	SF 205	0.83
205		25												205		0.83
205-16	1													205-16		0.83
SUCF 206-17	1 1/16													SUC 206-17		1.1
206-18	1 1/8													206-18		1.1
206		30	4 1/4 108	1 7/32 31	3 17/64 83	15/32 12	35/64 14	45/64 18	1 37/64 40.2	1.5000 38.1	0.6260 15.9	10	3/8	206	SF 206	1.1
206-19	1 3/16													206-19		1.1
206-20	1 1/4													206-20		1.1
SUCF 207-20	1 1/4													SUC 207-20		1.5
207-21	1 5/16													207-21		1.5
207-22	1 3/8		4 9/16 116	1 11/32 34	3 5/8 92	35/64 14	39/64 15.5	3/4 19	1 3/4 44.4	1.6890 42.9	0.6890 17.5	12	7/16	207-22	SF 207	1.5
207		35												207		1.5
207-23	1 7/16													207-23		1.5
SUCF 208-24	1 1/2													SUC 208-24		1.9
208-25	1 9/16		5 5/64 129	1 27/64 36	4 1/32 102	5/8 16	39/64 15.5	53/64 21	2 1/64 51.2	1.9370 49.2	0.7480 19.0	14	1/2	208-25	SF 208	1.9
208		40												208		1.9
SUCF 209-26	1 5/8													SUC 209-26		2.2
209-27	1 11/16													209-27		2.2
209-28	1 3/4		5 3/8 136.5	1 1/2 38	4 9/64 105	5/8 16	11/16 17.5	55/64 22	2 1/16 52.2	1.9370 49.2	0.7480 19.0	14	1/2	209-28	SF 209	2.2
209		45												209		2.2
SUCF 210-29	1 13/16													SUC 210-29		2.5
210-30	1 7/8													210-30		2.5
210-31	1 15/16		5 39/64 142.5	1 37/64 40	4 3/8 111	5/8 16	11/16 17.5	55/64 22	2 5/32 54.6	2.0315 51.6	0.7480 19.0	14	1/2	210-31	SF 210	2.5
210		50												210		2.5
210-32	2													210-32		2.5
SUCF 211-31	1 15/16													SUC 211-31		3.4
211-32	2													211-32		3.4
211-34	2 1/8		6 3/8 162	1 11/16 43	5 1/8 130	3/4 19	49/64 19.5	1 25	2 19/64 58.4	2.1890 55.6	0.8740 22.2	16	5/8	211-34	SF 211	3.4
211		55												211		3.4
211-35	2 3/16													211-35		3.4
SUCF 212-36	2 1/4													SUC 212-36		4.2
212-37	2 5/16													212-37		4.2
212		60	6 57/64 175	1 57/64 48	5 5/8 143	3/4 19	49/64 19.5	1 9/64 29	2 45/64 68.7	2.5630 65.1	1.0000 25.4	16	5/8	212	SF 212	4.2
212-38	2 3/8													212-38		4.2
212-39	2 7/16													212-39		4.2

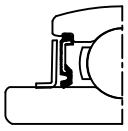
STAINLESS SERIES OVAL FLANGE TYPE UNITS

SUCFL2

(Cylindrical bore)





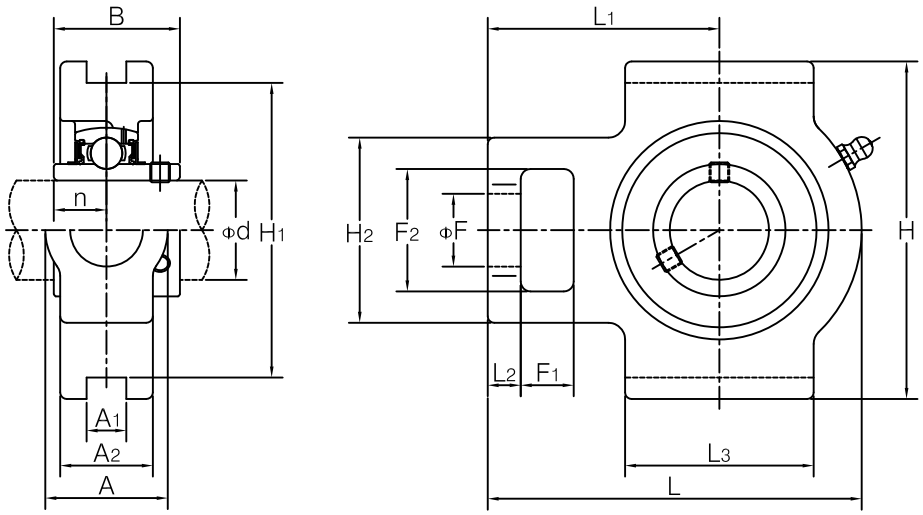


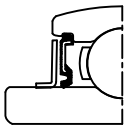
Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	H	L	A	J	F	A1	A2	A0	B	n	Bolt used (mm)	Bolt used (in.)	Bearing No.	Housing No.	Weight (kgf)
SUCFL 201		12													SUC 201		0.50
201-8	1/2														201-8		0.50
202		15													202		0.48
202-10	5/8		4 13/32	2 23/64	1	3 35/64	15/32	7/16	19/32	1 5/16	1.2205	0.5000	10	3/8	202-10	SFL 204	0.48
203		17	112	60	25.5	90	12	11	15	33.3	31.0	12.7			203		0.47
203-11	11/16														203-11		0.47
204-12	3/4														204-12		0.45
204		20													204		0.45
SUCFL 205-13	13/16														SUC 205-13		0.64
205-14	7/8														205-14		0.64
205-15	15/16		4 59/64	2 9/16	1 1/16	3 57/64	5/8	31/64	5/8	1 13/32	1.3425	0.5630	14	1/2	205-15	SFL 205	0.64
205		25	125	65	27	99	16	12.5	16	35.8	34.1	14.3			205		0.64
205-16	1														205-16		0.64
SUCFL 206-17	1 1/16														SUC 206-17		0.93
206-18	1 1/8														206-18		0.93
206		30	5 9/16	3	1 7/32	4 39/64	5/8	31/64	45/64	1 37/64	1.5000	0.6260	14	1/2	206	SFL 206	0.93
206-19	1 3/16		141	76	31	117	16	12.5	18	40.2	38.1	15.9			206-19		0.93
206-20	1 1/4														206-20		0.93
SUCFL 207-20	1 1/4														SUC 207-20		1.2
207-21	1 5/16														207-21		1.2
207-22	1 3/8		6 9/64	3 25/64	1 11/32	5 1/8	5/8	17/32	3/4	1 3/4	1.6890	0.6890	14	1/2	207-22	SFL 207	1.2
207		35	156	86	34	130	16	13.5	19	44.4	42.9	17.5			207		1.2
207-23	1 7/16														207-23		1.2
SUCFL 208-24	1 1/2														SUC 208-24		1.6
208-25	1 9/16		6 49/64	3 25/32	1 27/64	5 43/64	5/8	17/32	53/64	2 1/64	1.9370	0.7480	14	1/2	208-25	SFL 208	1.6
208		40	172	96	36	144	16	13.5	21	51.2	49.2	19.0			208		1.6
SUCFL 209-26	1 5/8														SUC 209-26		1.9
209-27	1 11/16														209-27		1.9
209-28	1 3/4		7 3/32	4 1/64	1 1/2	5 53/64	3/4	17/32	55/64	2 1/16	1.9370	0.7480	16	5/8	209-28	SFL 209	1.9
209		45	180	102	38	148	19	13.5	22	52.2	49.2	19.0			209		1.9
SUCFL 210-29	1 13/16														SUC 210-29		2.2
210-30	1 7/8														210-30		2.2
210-31	1 15/16		7 31/64	4 1/4	1 37/64	6 3/16	3/4	37/64	55/64	2 5/32	2.0315	0.7480	16	5/8	210-31	SFL 210	2.2
210		50	190	108	40	157	19	14.5	22	54.6	51.6	19.0			210		2.2
210-32	2														210-32		2.2
SUCFL 211-31	1 15/16														SUC 211-31		3.3
211-32	2														211-32		3.3
211-34	2 1/8		8 3/4	4 59/64	1 39/64	7 1/4	3/4	43/64	1	2 19/64	2.1890	0.8740	16	5/8	211-34	SFL 211	3.3
211		55	222	125	41	184	19	17	25	58.4	55.6	22.2			211		3.3
211-35	2 3/16														211-35		3.3
SUCFL 212-36	2 1/4														SUC 212-36		4.2
212-37	2 5/16														212-37		4.2
212		60	9 17/32	5 5/16	1 13/16	7 61/64	29/32	43/64	1 9/64	2 45/64	2.5630	1.0000	20	3/4	212	SFL 212	4.2
212-38	2 3/8		242	135	46	202	23	17	29	68.7	65.1	25.4			212-38		4.2
212-39	2 7/16														212-39		4.2

STAINLESS SERIES TAKE-UP TYPE UNITS

SUCT2

(Cylindrical bore)



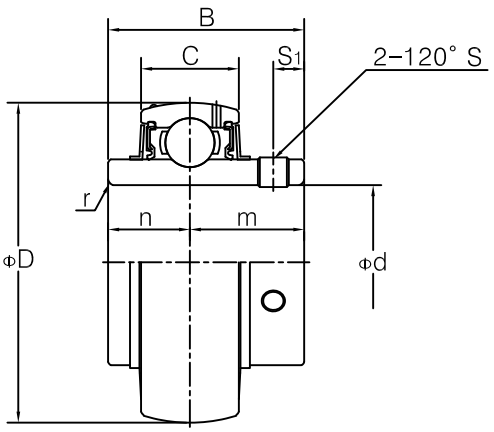


Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	A	A1	A2	H	H1	H2	L	L1	L2	L3	F	F1	F2	B	n	Bearing No.	Housing No.	Weight (kgf)
			Dimensions (in.) (mm)																	
SUCT 201		12	1 17/64	15/32	25/32	3 1/2	2 63/64	1 31/32	3 5/8	2 7/16	23/64	1 37/64	3/4	25/32	1 17/64	1.2205	0.5000	SUC 201		0.81
201-8	1/2		32	12	20	89	76	50	92	62	9	40	19	20	32	31.0	12.7	201-8		0.81
202		15																202		0.79
202-10	5/8																	202-10	ST 204	0.79
203		17																203		0.78
203-11	11/16																	203-11		0.78
204-12	3/4																	204-12		0.76
204		20																204		0.76
SUCT 205-13	13/16		1 17/64	15/32	53/64	3 1/2	2 63/64	1 31/32	3 47/64	2 7/16	23/64	1 37/64	3/4	25/32	1 17/64	1.3425	0.5630	SUC 205-13		0.84
205-14	7/8		32	12	21	89	76	50	95	62	9	40	19	20	32	34.1	14.3	205-14		0.84
205-15	15/16																	205-15	ST 205	0.84
205		25																205		0.84
205-16	1																	205-16		0.84
SUCT 206-17	1 1/16		1 29/64	15/32	15/16	4 1/64	3 1/2	2 11/64	4 3/8	2 3/4	23/64	1 27/32	55/64	25/32	1 29/64	1.5000	0.6260	SUC 206-17		1.3
206-18	1 1/8		37	12	24	102	89	55	111	70	9	47	22	20	37	38.1	15.9	206-18		1.3
206		30																206	ST 206	1.3
206-19	1 3/16																	206-19		1.3
206-20	1 1/4																	206-20		1.3
SUCT 207-20	1 1/4		1 29/64	15/32	1	4 1/64	3 1/2	2 1/4	4 59/64	3 5/64	25/64	2 1/8	55/64	15/16	1 29/64	1.6890	0.6890	SUC 207-20		1.6
207-21	1 5/16		37	12	25	102	89	57	125	78	10	54	22	24	37	42.9	17.5	207-21		1.6
207-22	1 3/8																	207-22	ST 207	1.6
207		35																207		1.6
207-23	1 7/16																	207-23		1.6
SUCT 208-24	1 1/2		1 59/64	5/8	1 3/16	4 31/64	4 1/64	3 1/32	5 33/64	3 15/32	35/64	2 7/8	1 3/16	1	1 59/64	1.9370	0.7480	SUC 208-24		2.5
208-25	1 9/16		49	16	30	114	102	77	140	88	14	73	29	25	49	49.2	19.0	208-25	ST 208	2.5
208		40																208		2.5
SUCT 209-26	1 5/8		1 59/64	5/8	1 7/32	4 39/64	4 1/64	3 1/32	5 33/64	3 27/64	35/64	2 7/8	1 3/16	1	1 59/64	1.9370	0.7480	SUC 209-26		2.4
209-27	1 11/16		49	16	31	117	102	77	140	87	14	73	29	25	49	49.2	19.0	209-27		2.4
209-28	1 3/4																	209-28	ST 209	2.4
209		45																209		2.4
SUCT 210-29	1 13/16		1 59/64	5/8	1 19/64	4 39/64	4 1/64	3 1/32	5 43/64	3 35/64	35/64	2 63/64	1 3/16	1	1 59/64	2.0315	0.7480	SUC 210-29		2.6
210-30	1 7/8		49	16	33	117	102	77	144	90	14	76	29	25	49	51.6	19.0	210-30		2.6
210-31	1 15/16																	210-31		2.6
210		50																210	ST 210	2.6
210-32	2																	210-32		2.6
SUCT 211-31	1 15/16		2 33/64	55/64	1 27/64	5 3/4	5 1/8	3 35/64	6 29/64	4 11/64	45/64	3 11/32	1 3/8	1 7/64	2 33/64	2.1890	0.8740	SUC 211-31		4.0
211-32	2		64	22	36	146	130	90	164	106	18	85	35	28	64	55.6	22.2	211-32		4.0
211-34	2 1/8																	211-34	ST 211	4.0
211		55																211		4.0
211-35	2 3/16																	211-35		4.0
SUCT 212-36	2 1/4		2 33/64	55/64	1 1/2	5 3/4	5 1/8	3 35/64	7 9/32	4 11/16	45/64	3 5/8	1 3/8	1 3/8	2 33/64	2.5630	1.0000	SUC 212-36		4.9
212-37	2 5/16		64	22	38	146	130	90	185	119	18	92	35	35	64	65.1	25.4	212-37		4.9
212		60																212	ST 212	4.9
212-38	2 3/8																	212-38		4.9
212-39	2 7/16																	212-39		4.9

STAINLESS SERIES SET SCREW TYPE BEARINGS

SUC2

(Cylindrical bore)



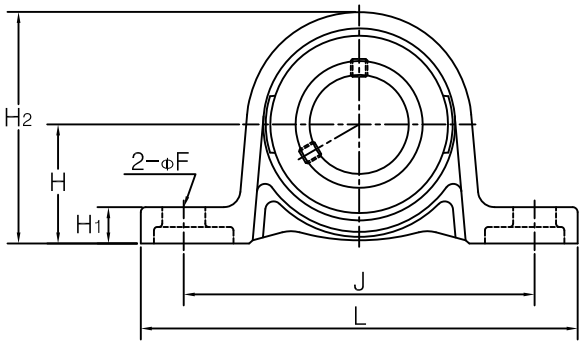
Unit No.	Shaft Dia. d (in.)	Shaft Dia. d (mm)	Dimensions (in.) (mm) D	B	C	r	n	m	S1	S	Basic dynamic load rating (kgf)	Basic static load rating (kgf)	Weight (kgf)
SUC 201		12	1.8504 47	1.2205 31.0	0.6299 16	0.0397 1.0	0.5000 12.7	0.7205 18.3	0.1969 5	M5 x 0.8 No.10-32UNF	1280	670	0.21
201-8	1/2												0.21
202		15											0.19
202-10	5/8												0.19
203		17											0.18
203-11	11/16												0.18
204-12	3/4												0.16
204		20											0.16
SUC 205-13	13/16	25	2.0472 52	1.3425 34.1	0.6693 17	0.0397 1.0	0.5630 14.3	0.7795 19.8	0.2165 5.5	M5 x 0.8 No.10-32UNF	1400	790	0.23
205-14	7/8												0.23
205-15	15/16												0.21
205													0.20
205-16	1												0.20
SUC 206-17	1 1/16	30	2.4409 62	1.5000 38.1	0.7480 19	0.0591 1.5	0.6260 15.9	0.8740 22.2	0.2165 5.5	M6 x 0.75 1/4-28UNF	1950	1130	0.34
206-18	1 1/8												0.34
206													0.32
206-19	1 3/16												0.32
206-20	1 1/4												0.32
SUC 207-20	1 1/4	35	2.8346 72	1.6890 42.9	0.7874 20	0.0591 1.5	0.6890 17.5	1.0000 25.4	0.2559 6.5	M6 x 0.75 1/4-28UNF	2570	1540	0.54
207-21	1 5/16												0.51
207-22	1 3/8												0.48
207													0.48
207-23	1 7/16												0.45
SUC 208-24	1 1/2	40	3.1496 80	1.9370 49.2	0.8268 21	0.0787 2.0	0.7480 19.0	1.1890 30.2	0.3346 8.5	M8 x 1.0 5/16-24UNF	2910	1790	0.68
208-25	1 9/16												0.65
208													0.64
SUC 209-26	1 5/8	45	3.3465 85	1.9370 49.2	0.8661 22	0.0787 2.0	0.7480 19.0	1.1890 30.2	0.3346 8.5	M8 x 1.0 5/16-24UNF	3200	2040	0.78
209-27	1 11/16												0.74
209-28	1 3/4												0.70
209													0.68
SUC 210-29	1 13/16	50	3.5433 90	2.0315 51.6	0.9055 23	0.0787 2.0	0.7480 19.0	1.2835 32.6	0.3937 10	M8 x 1.0 5/16-24UNF	3510	2320	0.87
210-30	1 7/8												0.87
210-31	1 15/16												0.82
210													0.80
210-32	2												0.80
SUC 211-31	1 15/16	55	3.9370 100	2.1890 55.6	0.9843 25	0.0787 2.0	0.8740 22.2	1.3150 33.4	0.3937 10	M8 x 1.0 5/16-24UNF	4330	2940	1.26
211-32	2												1.26
211-34	2 1/8												1.15
211													1.11
211-35	2 3/16												1.09
SUC 212-36	2 1/4	60	4.3307 110	2.5630 65.1	1.0630 27	0.0984 2.5	1.0000 25.4	1.5630 39.7	0.4724 12	M10 x 1.25 3/8-24UNF	5240	3610	1.67
212-37	2 5/16												1.54
212													1.54
212-38	2 3/8												1.52
212-39	2 7/16												1.45

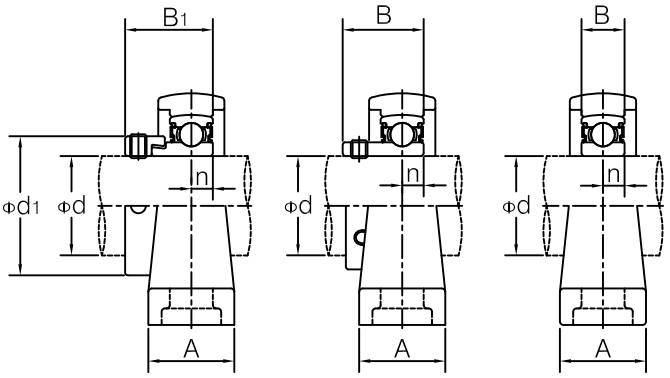
E. Clean series dimension table

CLEAN SERIES PILLOW BLOCK TYPE UNITS

UP MUP

(Clean series) (Stainless clean series)
(Cylindrical bore)





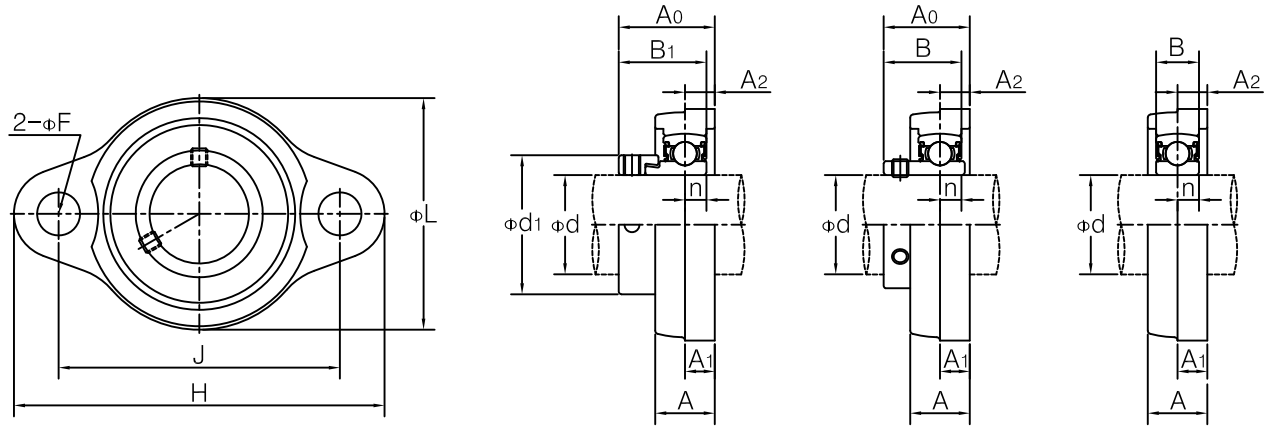
USAP/MUSAP USBP/MUSBP USCP

Unit No.	Shaft Dia. d(mm)	Dimensions (mm) H	L	A	J	H1	H2	B/B1	n	d1	F	Bolt used	Bearing No.	Housing No.	Weight (g)
USAP/MUSAP USBP MUSBP USCP 08	8	15	55	13	42	5	29	15	3.5	14.5	4.8	M4	USA/MUSA USB MUSB USC 08	P 08	47
								12.5	4						42
									3.5						
								7	3.5						38
USAP/MUSAP USBP MUSBP USCP 000	10	18	67	16	53	6	35	17.5	4	17	7	M6	USA/MUSA USB MUSB USC 000	P 000	77
								15	5						70
									4						
								8	4						63
USAP/MUSAP USBP MUSBP USCP 001	12	19	71	16	56	6	38	17.5	4	19	7	M6	USA/MUSA USB MUSB USC 001	P 001	91
								15	5						80
									4						
								8	4						77
USAP/MUSAP USBP MUSBP USCP 002	15	22	80	16	63	7	43	18.5	4.5	22	7	M6	USA/MUSA USB MUSB USC 002	P 002	125
								16.5	5.5						120
									4.5						
								9	4.5						113
USAP/MUSAP USBP MUSBP USCP 003	17	24	85	18	67	7	47	20.5	5	25	7	M6	USA/MUSA USB MUSB USC 003	P 003	156
								17.5	6						140
									5						
								10	5						131
USAP/MUSAP USBP MUSBP USCP 004	20	28	100	20	80	9	55	24.5	6	30	10	M8	USA/MUSA USB MUSB USC 004	P 004	230
								21	7						210
									6						
								12	6						198
USAP/MUSAP USBP MUSBP USCP 005	25	32	112	20	90	10	62	25.5	6	36	10	M8	USA/MUSA USB MUSB USC 005	P 005	294
								22	7						270
									6						
								12	6						249
USAP/MUSAP USBP MUSBP USCP 006	30	36	132	26	106	11	70	26.5	6.5	42	13	M10	USA/MUSA USB MUSB USC 006	P 006	454
								24.5	7.5						410
									6.5						
								13	6.5						376

CLEAN SERIES OVAL FLANGE TYPE UNITS

UFL MUFL

(Clean series) (Stainless clean series)
(Cylindrical bore)



Unit No.	Shaft Dia. d(mm)	Dimensions (mm) H	J	A1/A2	A	A0	L	B/B1	n	d1	F	Bolt used	Bearing No.	Housing No.	Weight (g)
USAFL/MUSAFL USBFL MUSBFL 08 USCFL	8	48	37	4.5	9.5	16	29	15	3.5	14.5	4.8	M4	USA/MUSA USB MUSB 08 USC	FL 08	30
						13		12.5	4						26
						13.5			3.5						
						–		7	3.5						24
USAFL/MUSAFL USBFL MUSBFL 000 USCFL	10	60	45	6	12	19.5	36	17.5	4	17	7	M6	USA/MUSA USB MUSB 000 USC	FL 000	65
						16		15	5						65
						17			4						
						–		8	4						53
USAFL/MUSAFL USBFL MUSBFL 001 USCFL	12	63	48	6	12	19.5	38	17.5	4	19	7	M6	USA/MUSA USB MUSB 001 USC	FL 001	76
						16		15	5						70
						17			4						
						–		8	4						57
USAFL/MUSAFL USBFL MUSBFL 002 USCFL	15	67	53	6.5	13	20.5	42	18.5	4.5	22	7	M6	USA/MUSA USB MUSB 002 USC	FL 002	100
						17.5		16.5	5.5						90
						18.5			4.5						
						–		9	4.5						79
USAFL/MUSAFL USBFL MUSBFL 003 USCFL	17	71	56	7	14	22.5	46	20.5	5	25	7	M6	USA/MUSA USB MUSB 003 USC	FL 003	130
						18.5		17.5	6						115
						19.5			5						
						–		10	5						105
USAFL/MUSAFL USBFL MUSBFL 004 USCFL	20	90	71	8	16	26.5	55	24.5	6	30	10	M8	USA/MUSA USB MUSB 004 USC	FL 004	205
						22		21	7						190
						23			6						
						–		12	6						163
USAFL/MUSAFL USBFL MUSBFL 005 USCFL	25	95	75	8	16	27.5	60	25.5	6	36	10	M8	USA/MUSA USB MUSB 005 USC	FL 005	245
						23		22	7						220
						24			6						
						–		12	6						203
USAFL/MUSAFL USBFL MUSBFL 006 USCFL	30	112	85	9	18	29	70	26.5	6.5	42	13	M10	USA/MUSA USB MUSB 006 USC	FL 006	355
						26		24.5	7.5						340
						27			6.5						
						–		13	6.5						280

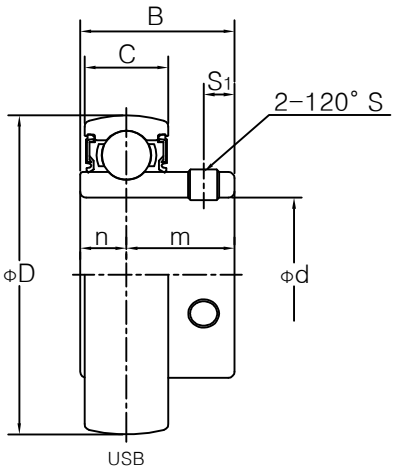
CLEAN/ STAINLESS CLEAN SERIES SET SCREW TYPE BEARINGS

USB

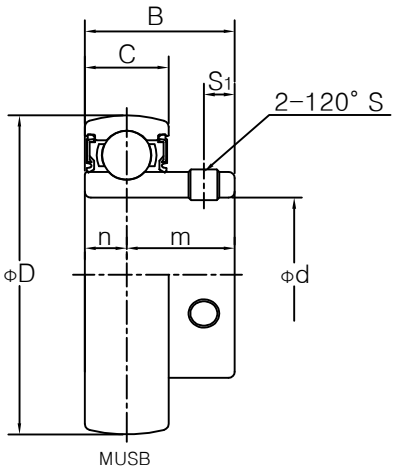
(Clean series)
(Cylindrical bore)

MUSB

(Stainless clean series)



USB



MUSB

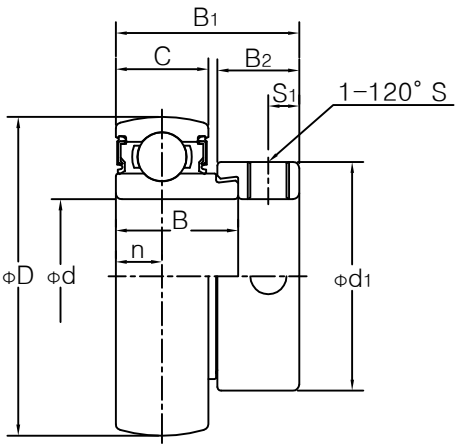
Unit No.	Shaft Dia. d(in.) (mm)	Dimensions (in.) (mm) C	D	B	n	m	S1	S	Basic dynamic load rating (kgf)	Basic static road rating (kgf)	Weight (kg)
USB MUSB 08	0.3150 8	0.2756 7	0.8661 22	0.4921 12.5	0.1575 4	0.3346 8.5	0.0984 2.5	M2.5 x 0.35	260	136	0.015
					0.1378 3.5	0.3543 9		M2.5 x 0.45			
USB MUSB 000	0.3937 10	0.3150 8	1.0236 26	0.5906 15	0.1969 5	0.3937 10	0.1181 3	M3 x 0.35	465	200	0.024
					0.1575 4	0.4331 11		M3 x 0.5			
USB MUSB 001	0.4724 12	0.3150 8	1.1024 28	0.5906 15	0.1969 5	0.3937 10	0.1181 3	M3 x 0.35	520	245	0.028
					0.1575 4	0.4331 11		M3 x 0.5			
USB MUSB 002	0.5906 15	0.3543 9	1.2598 32	0.6496 16.5	0.2165 5.5	0.4331 11	0.1378 3.5	M4 x 0.5	570	290	0.039
					0.1772 4.5	0.4724 12		M4 x 0.7			
USB MUSB 003	0.6693 17	0.3937 10	1.3780 35	0.6890 17.5	0.2362 6	0.4528 11.5	0.1378 3.5	M4 x 0.5	610	335	0.050
					0.1969 5	0.4921 12.5		M4 x 0.7			
USB MUSB 004	0.7874 20	0.4724 12	1.6535 42	0.8268 21	0.2756 7	0.5512 14	0.1575 4	M5 x 0.5	955	515	0.084
					0.2362 6	0.5906 15		M5 x 0.8			
USB MUSB 005	0.9843 25	0.4724 12	1.8504 47	0.8661 22	0.2756 7	0.5906 15	0.1771 4.5	M5 x 0.5	1030	595	0.111
					0.2362 6	0.6230 16		M5 x 0.8			
USB MUSB 006	1.1811 30	0.5118 13	2.1654 55	0.9646 24.5	0.2953 7.5	0.6693 17	0.1969 5	M5 x 0.5	1350	840	0.153
					0.2559 6.5	0.7087 18		M5 x 0.8			

CLEAN/ STAINLESS CLEAN SERIES ECCENTRIC LOCKING COLLAR TYPE BEARINGS

USA MUSA

(Clean series)
(Cylindrical bore)

(Stainless clean series)

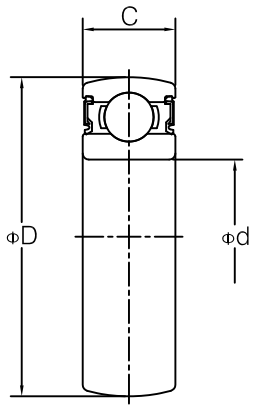


Unit No.	Shaft Dia. d(in.) (mm)	Dimensions (in.) (mm) C	D	B	n	B1	B2	d1	S1	S	Basic dynamic load rating (kgf)	Basic static road rating (kgf)	Weight (kg)
USA MUSA 08	0.3150 8	0.2756 7	0.8661 22	0.3740 9.5	0.1378 3.5	0.5906 15	0.2952 7.5	0.5709 14.5	0.1181 3	M3 x 0.5	260	136	0.020
USA MUSA 000	0.3937 10	0.3150 8	1.0236 26	0.4331 11	0.1575 4	0.6890 17.5	0.3346 8.5	0.6693 17	0.1378 3.5	M4 x 0.7	465	200	0.029
USA MUSA 001	0.4724 12	0.3150 8	1.1024 28	0.4331 11	0.1575 4	0.6890 17.5	0.3346 8.5	0.7480 19	0.1378 3.5	M4 x 0.7	520	245	0.033
USA MUSA 002	0.5906 15	0.3543 9	1.2598 32	0.4724 12	0.1772 4.5	0.7283 18.5	0.3346 8.5	0.8661 22	0.1378 3.5	M4 x 0.7	570	290	0.043
USA MUSA 003	0.6693 17	0.3937 10	1.3780 35	0.5315 13.5	0.1969 5	0.8071 20.5	0.3740 9.5	0.9843 25	0.1378 3.5	M4 x 0.7	610	335	0.058
USA MUSA 004	0.7874 20	0.4724 12	1.6535 42	0.6496 16.5	0.2362 6	0.9646 24.5	0.4330 11.0	1.1811 30	0.1575 4	M5 x 0.8	955	515	0.096
USA MUSA 005	0.9843 25	0.4724 12	1.8504 47	0.6890 17.5	0.2362 6	1.0039 25.5	0.4724 12.0	1.4173 36	0.1575 4	M5 x 0.8	1030	595	0.128
USA MUSA 006	1.1811 30	0.5118 13	2.1654 55	0.7283 18.5	0.2559 6.5	1.0433 26.5	0.4724 12.0	1.6535 42	0.1575 4	M5 x 0.8	1350	840	0.177

CLEAN SERIES TIGHT FIT TYPE BEARINGS

USC

(Cylindrical bore)



Unit No.	Shaft Dia. d(In.) (mm)	Dimensions (In.) (mm) C	D	Basic dynamic load rating (kgf)	Basic static road rating (kgf)	Weight (kg)
USC 08	0.3150 8	0.2756 7	0.8661 22	260	136	0.012
USC 000	0.3937 10	0.3150 8	1.0236 26	465	200	0.019
USC 001	0.4724 12	0.3150 8	1.1024 28	520	245	0.021
USC 002	0.5906 15	0.3543 9	1.2598 32	570	290	0.030
USC 003	0.6693 17	0.3937 10	1.3780 35	610	335	0.039
USC 004	0.7874 20	0.4724 12	1.6535 42	955	515	0.066
USC 005	0.9843 25	0.4724 12	1.8504 47	1030	595	0.078
USC 006	1.1811 30	0.5118 13	2.1654 55	1350	840	0.114

F. Reference

1. Hardness scale conversion table

Approximate conversion from the Rockwell C scale for steel is shown below.

Rockwell C scale hardness	Vickers hardness	Brinell hardness 10mm ball·300kgf load		Rockwell hardness		Shore hardness
		Standard ball	Tungsten carbide ball	A scale 50kgf load brale indenter	B scale 100kgf load 1/16in diameter ball	
68	940			85.6		97
67	900			85.0		95
66	865			84.5		92
65	832		739	83.9		91
64	800		722	83.4		88
63	772		705	82.8		87
62	746		688	82.3		85
61	720		670	81.8		83
60	697		654	81.2		81
59	674		634	80.7		80
58	653		615	80.1		78
57	633		595	79.6		76
56	613		577	79.0		75
55	595		560	78.5		74
54	577		543	78.0		72
53	560		525	77.4		71
52	544	500	512	76.8		69
51	528	487	496	76.3		68
50	513	475	481	75.9		67
49	498	464	469	75.2		66
48	484	451	455	74.7		64
47	471	442	443	74.1		63
46	458	432	432	73.6		62
45	446	421	421	73.1		60
44	434	409	409	72.5		58
43	423	400	400	72.0		57
42	412	390	390	71.5		56
41	402	381	381	70.9		55
40	392	371	371	70.4		54
39	382	362	362	69.9		52
38	372	353	353	69.4		51
37	363	344	344	68.9		50
36	354	336	336	68.4	(109.0)	49
35	345	327	327	67.9	(108.5)	48
34	336	319	319	67.4	(108.0)	47
33	327	311	311	66.8	(107.5)	46
32	318	301	301	66.3	(107.0)	44
31	310	294	294	65.8	(106.0)	43
30	302	286	286	65.3	(105.5)	42
29	294	279	279	64.7	(104.5)	41
28	286	271	271	64.3	(104.0)	41
27	279	264	264	63.8	(103.0)	40
26	272	258	258	63.3	(102.5)	38
25	266	253	253	62.8	(101.5)	38
24	260	247	247	62.4	(101.0)	37
23	254	243	243	62.0	100.0	36
22	248	237	237	61.5	99.0	35
21	243	231	231	61.0	98.5	35
20	238	226	226	60.5	97.8	34
(18)	230	219	219		96.7	33
(16)	222	212	212		95.5	32
(14)	213	203	203		93.9	31
(12)	204	194	194		92.3	29
(10)	196	187	187		90.7	28
(8)	188	179	179		89.5	27
(6)	180	171	171		87.1	26
(4)	173	165	165		85.5	25
(2)	166	158	158		83.5	24
(0)	160	152	152		81.7	24

2. Temperature conversion table (℃ – °F)

① −60℃ = −76°F　　°F = $\frac{9}{5}$℃+32
② 58°F = 144.4℃　　℃ = $\frac{5}{9}$ (°F−32)

℃		°F	℃		°F	℃		°F	℃		°F
−62.2	−80	−112.0	13.3	56	132.8	49.4	121	249.8	85.6	186	366.8
−56.7	−70	−94.0	13.9	57	134.6	50.0	122	251.6	86.1	187	368.6
−51.1	−60	−76.0	14.4	58	136.4	50.6	123	253.4	86.7	188	370.4
−45.6	−50	−58.0	15.0	59	138.2	51.1	124	255.2	87.2	189	372.2
−40.0	−40	−40.0	15.6	60	140.0	51.7	125	257.0	87.8	190	374.0
−34.4	−30	−20.0	16.1	61	141.8	52.2	126	258.8	88.3	191	375.8
−28.9	−20	−4.0	16.7	62	143.6	52.8	127	260.6	88.9	192	377.6
−23.3	−10	14.0	17.2	63	145.4	53.3	128	262.4	89.4	193	379.4
			17.8	64	147.2	53.9	129	264.2	90.0	194	381.2
−17.8	0	32.0	18.3	65	149.0	54.4	130	266.0	90.6	195	383.0
−17.2	1	33.8	18.9	66	150.8	55.0	131	267.8	91.1	196	384.8
−16.7	2	35.6	19.4	67	152.6	55.6	132	269.6	91.1	197	386.6
−16.1	3	37.4	20.0	68	154.4	56.1	133	271.4	91.7	198	388.4
−15.6	4	39.2	20.6	69	156.2	56.7	134	273.2	92.2	199	390.2
−15.0	5	41.0	21.1	70	158.0	57.2	135	275.0	93.3	200	392.0
−14.4	6	42.8	21.7	71	159.8	57.8	136	276.8	98.9	210	410.0
−13.9	7	44.6	22.2	72	161.6	58.3	137	278.6	104.4	220	428.0
−13.3	8	46.4	22.8	73	163.4	58.9	138	280.4	110.0	230	446.0
−12.8	9	48.2	23.3	74	165.2	59.4	139	282.4	115.6	240	464.0
−12.2	10	50.0	23.9	75	167.0	60.0	140	284.0	121.1	250	482.0
−11.7	11	51.8	24.4	76	168.8	60.6	141	285.8	126.7	260	500.0
−11.1	12	53.6	25.0	77	170.6	61.1	142	287.6	132.2	270	518.0
−10.6	13	55.4	25.6	78	172.4	61.7	143	289.4	137.8	280	536.0
−10.0	14	57.2	26.1	79	174.2	62.2	144	291.2	143.3	290	554.0
−9.4	15	59.0	26.7	80	176.0	62.8	145	293.0	148.9	300	572.0
−8.9	16	60.8	27.2	81	177.8	63.3	146	294.8	154.4	310	590.0
−8.3	17	62.6	27.8	82	179.6	63.9	147	296.6	160.0	320	608.0
−7.8	18	64.4	28.3	83	181.4	64.4	148	298.4	165.6	330	626.0
−7.2	19	66.2	28.9	84	183.2	65.0	149	300.2	171.1	340	644.0
−6.7	20	68.0	29.4	85	185.0	65.6	150	302.0	177.7	350	662.0
−6.1	21	69.8	30.0	86	186.8	66.1	151	303.8	182.2	360	680.0
−5.6	22	71.6	30.6	87	188.6	66.7	152	305.6	187.8	370	698.0
−5.0	23	73.4	31.1	88	190.4	67.2	153	307.4	193.3	380	716.0
−4.4	24	75.2	31.7	89	192.2	67.8	154	309.2	198.9	390	734.0
−3.9	25	77.0	32.2	90	194.0	68.3	155	311.0	204.4	400	752.0
−3.3	26	78.8	32.8	91	195.8	68.9	156	312.8	210.0	410	770.0
−2.8	27	80.6	33.3	92	197.6	69.4	157	314.6	215.6	420	788.0
−2.2	28	82.4	33.9	93	199.4	70.0	158	316.4	221.1	430	806.0
−1.7	29	84.2	34.4	94	201.2	70.6	159	318.2	226.7	440	824.0
−1.1	30	86.0	35.0	95	203.0	71.1	160	320.0	232.2	450	842.0
−0.6	31	87.8	35.6	96	204.8	71.7	161	321.8	237.8	460	860.0
0.0	32	89.6	36.1	97	206.6	72.2	162	323.6	243.3	470	878.0
0.6	33	91.4	36.7	98	208.4	72.8	163	325.4	248.9	480	896.0
1.1	34	93.2	37.2	99	210.2	73.3	164	327.2	254.4	490	914.0
1.7	35	95.0	37.8	100	212.0	73.9	165	329.0	260.0	500	932.0
2.2	36	96.8	38.3	101	213.8	74.4	166	330.8	265.6	510	950.0
2.8	37	98.6	38.9	102	215.6	75.0	167	332.6	271.1	520	968.0
3.3	38	100.4	39.4	103	217.4	75.6	168	334.4	276.7	530	986.0
3.9	39	102.2	40.0	104	219.2	76.1	169	336.2	282.2	540	1004.0
4.4	40	104.0	40.6	105	221.0	76.7	170	338.0	287.8	550	1022.0
5.0	41	105.8	41.1	106	222.8	77.2	171	339.8	293.3	560	1040.0
5.6	42	107.6	41.7	107	224.6	77.8	172	341.6	298.9	570	1058.0
6.1	43	109.4	42.2	108	226.4	78.3	173	343.4	304.4	580	1076.0
6.7	44	111.2	42.8	109	228.2	78.9	174	345.2	310.0	590	1094.0
7.2	45	113.0	43.3	110	230.0	79.4	175	347.0	315.6	600	1112.0
7.8	46	114.8	43.9	111	231.8	80.8	176	348.8	321.1	610	1130.0
8.3	47	116.6	44.4	112	233.6	80.6	177	350.6	326.7	620	1148.0
8.9	48	118.4	45.0	113	235.4	81.1	178	352.4	332.2	630	1166.0
9.4	49	120.2	45.6	114	237.2	81.7	179	354.2	337.8	640	1184.0
10.0	50	122.0	46.1	115	239.0	82.2	180	356.0	343.3	650	1202.0
10.6	51	123.8	46.7	116	240.8	82.8	181	357.8	348.9	660	1220.0
11.1	52	125.6	47.2	117	242.6	83.3	182	359.6	354.4	670	1238.0
11.7	53	127.4	47.8	118	244.4	83.9	183	361.4	360.0	680	1256.0
12.2	54	129.2	48.3	119	246.2	84.4	184	363.2	365.6	690	1274.0
12.8	55	131.0	48.9	120	248.0	85.0	185	365.0	371.1	700	1292.0

3. kgf-lbf conversion table

① 3 kgf = 6.614 lbf 1kgf = 2.2046 lbf
② 36 lbf = 16.329 kgf 1lbf = 0.45359 kgf

① kgf		lbf	kgf		② lbf	kgf		lbf
0.454	1	2.205	15.422	34	74.957	30.391	67	147.71
0.907	2	4.409	15.876	35	77.162	30.844	68	149.91
1.361	3	6.614	16.329	36	79.366	31.298	69	152.12
1.814	4	8.818	16.783	37	81.571	31.751	70	154.32
2.268	5	11.023	17.236	38	83.776	32.205	71	156.53
2.722	6	13.228	17.690	39	85.980	32.658	72	158.73
3.175	7	15.432	18.144	40	88.185	33.112	73	160.94
3.629	8	17.637	18.597	41	90.390	33.566	74	163.14
4.082	9	19.842	19.051	42	92.594	34.019	75	165.35
4.536	10	22.046	19.504	43	94.799	34.473	76	167.55
4.989	11	24.251	19.958	44	97.003	34.926	77	169.76
5.443	12	26.455	20.412	45	99.208	35.380	78	171.96
5.897	13	28.660	20.865	46	101.41	35.834	79	174.17
6.350	14	30.865	21.319	47	103.62	36.287	80	176.37
6.804	15	33.069	21.772	48	105.82	36.741	81	178.57
7.257	16	35.274	22.226	49	108.03	37.194	82	180.78
7.711	17	37.479	22.680	50	110.23	37.648	83	182.98
8.165	18	39.683	23.133	51	112.44	38.102	84	185.19
8.618	19	41.888	23.587	52	114.64	38.555	85	187.39
9.072	20	44.092	24.040	53	116.85	39.009	86	189.60
9.525	21	46.297	24.494	54	119.05	39.462	87	191.80
9.979	22	48.502	24.947	55	121.25	39.916	88	194.01
10.433	23	50.706	25.401	56	123.46	40.370	89	196.21
10.886	24	52.911	25.855	57	125.66	40.823	90	198.42
11.340	25	55.116	26.308	58	127.87	41.277	91	200.62
11.793	26	57.320	26.762	59	130.07	41.730	92	202.83
12.247	27	59.525	27.215	60	132.28	42.184	93	205.03
12.701	28	61.729	27.669	61	134.48	42.638	94	207.23
13.154	29	63.934	28.123	62	136.69	43.091	95	209.44
13.608	30	66.139	28.576	63	138.89	43.545	96	211.64
14.061	31	68.343	29.030	64	141.10	43.998	97	213.85
14.515	32	70.548	29.483	65	143.30	44.452	98	216.05
14.969	33	75.752	29.937	66	145.51	44.905	99	218.26

4. kgf–N conversion table

① 3 kgf = 29.420 N 1 kgf = 9.80665 N
② 36 N = 3.6710 kgf 1 lbf = 0.101972 kgf

kgf		N
0.1020	1	9.8066
0.2039	2	19.613
0.3059	3	29.420
0.4079	4	39.227
0.5099	5	49.033
0.6118	6	58.840
0.7138	7	68.647
0.8158	8	78.453
0.9177	9	88.260
1.0197	10	98.066
1.1217	11	107.87
1.2237	12	117.68
1.3256	13	127.49
1.4276	14	137.29
1.5296	15	147.10
1.6315	16	156.91
1.7335	17	166.71
1.8355	18	176.52
1.9375	19	186.33
2.0394	20	196.13
2.1414	21	205.94
2.2434	22	215.75
2.3453	23	225.55
2.4473	24	235.36
2.5493	25	245.17
2.6513	26	254.97
2.7532	27	264.78
2.8552	28	274.59
2.9572	29	284.39
3.0591	30	294.20
3.1611	31	304.01
3.2631	32	313.81
3.3651	33	323.62

kgf		lbf
3.4670	34	333.43
3.5690	35	343.23
3.6710	36	353.04
3.7729	37	362.85
3.8749	38	372.65
3.9769	39	382.46
4.0789	40	392.27
4.1808	41	402.07
4.2828	42	411.88
4.3848	43	421.69
4.4868	44	431.49
4.5887	45	441.30
4.6907	46	451.11
4.7927	47	460.91
4.8946	48	470.72
4.9966	49	480.53
5.0986	50	490.33
5.2006	51	500.14
5.3025	52	509.95
5.4045	53	519.75
5.5065	54	529.56
5.6084	55	539.37
5.7104	56	549.17
5.8124	57	558.98
5.9144	58	568.79
6.0163	59	578.59
6.1183	60	588.40
6.2203	61	598.21
6.3222	62	608.01
6.4242	63	617.82
6.5262	64	627.63
6.6282	65	637.43
6.7301	66	647.24

kgf		lbf
6.8321	67	657.05
6.9341	68	668.85
7.0360	69	676.66
7.1380	70	686.47
7.2400	71	696.27
7.3420	72	706.08
7.4439	73	715.89
7.5459	74	725.69
7.6479	75	735.50
7.7499	76	745.31
7.8518	77	755.11
7.9538	78	764.92
8.0558	79	774.73
8.1577	80	784.53
8.2597	81	794.34
8.3617	82	804.15
8.4636	83	813.95
8.5656	84	823.76
8.6676	85	833.57
8.7696	86	843.37
8.8715	87	853.18
8.9735	88	862.99
9.0755	89	872.79
9.1774	90	882.60
9.2794	91	892.41
9.3814	92	902.21
9.4834	93	912.02
9.5853	94	921.83
9.6873	95	931.63
9.7893	96	941.44
9.8912	97	951.25
9.9932	98	961.05
10.095	99	970.86

5. inch-mm conversion table

1" = 25.4 mm

inch		0"	1"	2"	3"	4"	5"	6"	7"	8"
Fraction	Decimal									
	.0		25.4	50.8	76.2	101.6	127	152.4	177.8	203.2
1/64	.015625	0.3969	25.7969	51.1969	76.5969	101.9969	127.3969	152.7969	178.1969	203.5069
1/32	.03125	0.7938	26.1938	51.5938	76.9938	102.3938	127.7938	153.1938	178.5938	203.9938
3/64	.046875	1.1906	26.5906	51.9906	77.3906	102.7906	128.1906	153.5906	178.9906	204.3906
1/16	.0625	1.5875	26.9875	52.3875	77.7875	103.1875	128.5875	153.9875	179.3875	204.7875
5/64	.078125	1.9844	27.3844	52.7844	78.1844	103.5844	128.9844	154.3844	179.7844	205.1844
3/32	.09375	2.3813	27.7813	53.1813	78.5813	103.9813	129.3813	154.7813	180.1813	205.5813
7/64	.109375	2.7781	28.1781	53.5781	78.9781	104.3781	129.7781	155.1781	180.5781	205.9781
1/8	.125	3.175	28.575	53.975	79.375	104.775	130.175	155.575	180.975	206.375
9/64	.140625	3.5719	28.9719	54.3719	79.7719	105.1719	130.5719	155.9719	181.3719	206.7719
5/32	.15625	3.9688	29.3688	54.7688	80.1688	105.5688	130.9688	156.3688	181.7688	207.1688
11/64	.171875	4.3656	29.7656	55.1656	80.5656	105.9656	131.3656	156.7656	182.1656	207.5656
3/16	.1875	4.7625	30.1625	55.5625	80.9625	106.3625	131.7625	157.1625	182.5625	207.9625
13/64	.203125	5.1594	30.5594	55.9594	81.3594	106.7594	132.1594	157.5594	182.9594	208.3594
7/32	.21875	5.5563	30.9563	56.3563	81.7653	107.1563	132.5563	157.9563	183.3563	208.7563
15/64	.234375	5.9531	31.3531	56.7531	82.1531	107.5531	132.9531	158.3531	183.7531	209.1531
1/4	.25	6.35	31.75	57.15	82.55	107.95	133.35	158.75	184.15	209.55
17/64	.265625	6.7469	32.1469	57.5469	82.9469	108.3469	133.7469	159.1469	184.5469	209.9469
9/32	.28125	7.1438	32.5438	57.9438	83.3438	108.7438	134.1438	159.5438	184.9438	210.3438
19/64	.296875	7.5406	32.9406	58.3406	83.7406	109.1406	134.5406	159.9406	185.3406	210.7406
5/16	.3125	7.9375	33.3375	58.7375	84.1375	109.5375	134.9375	160.3375	185.7375	211.1375
21/64	.328125	8.3344	33.7344	59.1344	84.5344	109.9344	135.3344	160.7344	186.1344	211.5344
11/32	.34375	8.7313	34.1313	59.5313	84.9313	110.3313	135.7313	161.1313	186.5313	211.9313
23/64	.359375	9.1281	34.5281	59.9281	85.3281	110.7281	136.1281	161.5281	186.9281	212.3281
3/8	.375	9.625	34.925	60.325	85.725	111.125	136.525	161.925	187.325	212.725
25/64	.390625	9.9219	35.3219	60.7219	86.1219	111.5219	136.9219	162.3219	187.7219	213.1219
13/32	.40625	10.3188	35.7188	61.1188	86.5188	111.9188	137.3188	162.7188	188.1188	213.5188
27/64	.421875	10.7156	36.1156	61.5156	86.9156	112.3156	137.7156	163.1156	185.5156	213.9156
7/16	.4375	11.1125	36.5125	61.9125	87.3125	112.7125	138.1125	163.5125	188.9125	214.3125
29/64	.453125	11.5094	36.9094	62.3094	87.7094	113.1094	138.5094	163.9094	189.4094	214.7094
15/32	.46875	11.9063	37.3063	62.7063	88.1063	113.5063	138.9063	164.3063	189.7063	215.1063
31/64	.484375	12.3031	37.7031	63.1031	88.5031	113.9031	139.3031	164.7031	190.1031	215.5031
1/2	.5	12.7	38.1	63.5	88.9	114.3	139.7	165.1	190.5	215.9
33/64	.515625	13.0969	38.4969	63.8969	89.2969	114.6969	140.0969	165.4969	190.8969	216.2969
17/32	.53125	13.4938	38.8938	64.2938	89.6938	115.0938	140.4938	165.8938	191.2938	216.6938
35/64	.546875	13.8906	39.2906	64.6906	90.0906	115.4906	140.8906	166.2906	191.6906	217.0906
9/16	.5625	14.2875	39.6875	65.0875	90.4875	115.8875	141.2875	166.6875	192.0875	217.4875
37/64	.578125	14.6844	40.0844	65.4844	90.8844	116.2844	141.6844	167.0844	192.4844	217.8844
19/32	.59375	15.0813	40.4813	65.8813	91.2813	116.6813	142.0813	167.4813	192.8813	218.2813
39/64	.609375	15.4781	40.8781	66.2781	91.6781	117.0781	142.4781	167.8781	193.2781	218.6781
5/8	.625	15.875	41.275	66.675	92.075	117.475	142.875	168.275	193.675	219.075
41/64	.640625	16.2719	41.6719	67.0719	92.4719	117.8719	143.2719	168.6719	194.0719	219.4719
21/32	.65625	16.6688	42.0688	67.4688	92.8688	118.2688	143.6688	169.0688	194.4688	219.8688
43/64	.671875	17.0656	42.4656	67.8656	93.2656	118.6656	144.0656	169.4656	194.8656	220.2656
11/16	.6875	17.4625	42.8625	68.2625	93.6625	119.0625	144.4625	169.865	195.2625	220.6625
45/64	.703125	17.8594	43.2594	68.6594	94.0594	119.4594	144.8594	170.2594	195.6594	221.0594
23/32	.71875	18.2563	43.6563	69.0563	94.4563	119.8563	145.2563	170.6563	196.0563	221.4563
47/64	.734375	18.6531	44.0531	69.4531	94.8531	120.2531	145.6531	171.0531	196.4531	221.8531
3/4	.75	19.05	44.45	69.85	95.25	120.65	146.05	171.45	196.85	222.25
49/64	.765625	19.4469	44.8469	70.2469	95.6469	121.0469	146.4469	171.8469	197.2469	222.6469
25/32	.78125	19.8438	45.2438	70.6438	96.0438	121.4438	146.8438	172.2438	197.6438	223.0438
51/64	.796875	20.2406	45.6406	71.0406	96.4406	121.8406	147.2406	172.6406	198.0406	223.4406
13/16	.8125	20.6375	46.0375	71.4375	96.8375	122.2375	147.6375	173.0375	198.4375	223.8375
53/64	.828125	21.0344	46.4344	71.8344	97.2344	122.6344	148.0344	173.4344	198.8344	224.2344
27/32	.84375	21.4313	46.8313	72.2313	97.6313	123.0313	148.4313	173.833	199.2313	224.6313
55/64	.859375	21.8281	47.2281	72.6281	98.0281	123.4281	148.8281	174.221	199.6281	225.0281
7/8	.875	22.225	47.625	73.025	98.245	123.825	149.225	174.62	200.025	225.423
57/64	.890625	22.6219	48.0219	73.4219	98.8219	124.2219	149.6219	175.02	200.4219	225.8219
29/32	.90625	23.0188	48.4188	73.8188	99.2188	124.6188	150.0188	175.4138	200.8188	226.2188
59/64	.921875	23.4156	48.8156	74.2156	99.6156	125.0156	150.4156	175.8156	201.2156	226.6156
15/16	.9375	23.8125	49.2125	74.6125	100.0125	125.4125	150.8125	176.2125	201.6125	227.0125
61/64	.953125	24.2094	49.6094	75.0094	100.4094	125.8094	151.2094	176.6094	202.0094	227.4094
31/32	.96875	24.6063	50.0063	75.4063	100.8063	126.2063	151.6063	177.0063	202.4063	227.8063
63/64	.984375	25.0031	50.4031	75.8031	101.2031	126.6031	152.0031	177.40	202.8031	228.2031

6. Shaft dimension tolerance table

(unit : 0.001mm)

Dimension range(mm)		g		h					js			j			k		m		n
over	incl	g5	g6	h5	h6	h7	h8	h9	js5	js6	js7	j5	j6	j7	k5	k6	m5	m6	n6
10	18	− 6 −14	− 6 −17	0 − 8	0 − 11	0 − 18	0 − 27	0 − 43	± 4	± 5.5	± 9	+ 5 − 3	+ 8 − 3	+ 12 − 6	+ 9 + 1	+ 12 + 10	+ 15 + 7	+ 18 + 7	+ 23 + 12
18	30	− 7 −16	− 7 −20	0 − 9	0 − 13	0 − 21	0 − 33	0 − 52	± 4.5	± 6.5	± 10	+ 5 − 4	+ 9 − 4	+ 13 − 8	+ 11 + 2	+ 15 + 2	+ 17 + 8	+ 21 + 8	+ 28 + 15
30	50	− 9 −20	− 9 −25	0 − 11	0 − 16	0 − 25	0 − 39	0 − 62	± 5.5	± 8	± 12	+ 6 − 5	+ 11 − 5	+ 15 − 10	+ 13 + 2	+ 18 + 2	+ 20 + 9	+ 25 + 9	+ 33 + 17
50	80	−10 −23	−10 −29	0 − 13	0 − 19	0 − 30	0 − 46	0 − 74	± 6.5	± 9.5	± 17	+ 6 − 7	+ 12 − 7	+ 18 − 12	+ 15 + 2	+ 21 + 2	+ 24 + 11	+ 30 + 11	+ 39 + 20
80	120	−12 −27	−12 −34	0 − 15	0 − 22	0 − 35	0 − 54	0 − 87	± 7.5	± 11	±17.5	+ 6 − 9	+ 13 − 9	+ 20 − 15	+ 18 + 3	+ 25 + 3	+ 28 + 13	+ 35 + 13	+ 45 + 23
120	180	−14 −32	−14 −39	0 − 18	0 − 25	0 − 40	0 − 63	0 −100	± 9	±12.5	± 20	+ 7 − 11	+ 14 − 11	+ 22 − 18	+ 21 + 3	+ 28 + 3	+ 33 + 15	+ 40 + 15	+ 52 + 27
180	250	−15 −35	−15 −44	0 − 20	0 − 29	0 − 46	0 − 72	0 −115	± 10	±14.5	± 23	+ 7 − 13	+ 16 − 13	+ 25 − 21	+ 24 + 4	+ 33 + 4	+ 37 + 17	+ 46 + 17	+ 60 + 31
250	315	−17 −40	−17 −49	0 − 23	0 − 32	0 − 52	0 − 81	0 −130	±11.5	± 16	± 26	+ 7 − 16	+ 16 − 16	+ 26 − 26	+ 27 + 4	+ 36 + 4	+ 43 + 20	+ 52 + 20	+ 66 + 34
315	400	−18 −43	−18 −54	0 − 25	0 − 36	0 − 57	0 − 89	0 −140	±12.5	± 18	± 28	+ 7 − 18	+ 18 − 18	+ 29 − 28	+ 29 + 4	+ 40 + 4	+ 46 + 21	+ 57 + 21	+ 73 + 37
400	500	−20 −47	−20 −60	0 − 27	0 − 40	0 − 63	0 − 97	0 −155	±13.5	± 20	± 31	+ 7 − 20	+ 20 − 20	+ 31 − 32	+ 32 + 5	+ 45 + 5	+ 50 + 23	+ 63 + 23	+ 80 + 40

7. Bore dimension tolerance table

(unit : 0.001mm)

Dimension range(mm)		G		H						JS			J			k		M	
over	incl	G5	G6	H5	H6	H7	H8	H9	H10	JS5	JS6	JS7	J6	J7	J8	K6	K7	M6	M7
10	18	+ 17 + 6	+ 24 + 6	+ 8 0	+ 11 0	+ 18 0	+ 27 0	+ 43 0	+ 70 0	± 4	± 5.5	± 9	+ 6 − 5	+ 10 − 8	+ 15 − 12	+ 2 − 9	+ 6 − 12	− 4 − 15	0 − 18
18	30	+ 20 + 7	+ 28 + 7	+ 9 0	+ 13 0	+ 21 0	+ 33 0	+ 52 0	+ 84 0	± 4.5	± 6.5	± 10	+ 8 − 5	+ 12 − 9	+ 20 − 13	+ 2 − 11	+ 6 − 15	− 4 − 17	0 − 21
30	50	+ 25 + 9	+ 34 + 9	+ 11 0	+ 16 0	+ 25 0	+ 39 0	+ 62 0	+100 0	± 5.5	± 8	± 12	+ 10 − 6	+ 14 − 11	+ 24 − 15	+ 3 − 13	+ 7 − 18	− 4 − 20	0 − 25
50	80	+ 29 + 10	+ 40 + 10	+ 13 0	+ 19 0	+ 30 0	+ 46 0	+ 74 0	+120 0	± 6.5	± 9.5	± 15	+ 13 − 6	+ 18 − 12	+ 28 − 18	+ 4 − 15	+ 9 − 21	− 5 − 24	0 − 30
80	120	+ 34 + 12	+ 47 + 12	+ 15 0	+ 22 0	+ 35 0	+ 54 0	+ 87 0	+140 0	± 7.5	± 11	± 17	+ 16 − 6	+ 22 − 13	+ 34 − 20	+ 4 − 18	+ 10 − 25	− 6 − 28	0 − 35
120	180	+ 39 + 14	+ 54 + 14	+ 18 0	+ 25 0	+ 40 0	+ 63 0	+100 0	+160 0	± 9	±12.5	± 20	+ 18 − 7	+ 26 − 14	+ 41 − 22	+ 4 − 21	+ 12 − 28	− 8 − 33	0 − 40
180	250	+ 44 + 15	+ 61 + 15	+ 20 0	+ 29 0	+ 46 0	+ 72 0	+115 0	+185 0	± 10	±14.5	± 23	+ 22 − 7	+ 30 − 16	+ 47 − 25	+ 5 − 24	+ 13 − 33	− 8 − 37	0 − 46
250	315	+ 49 + 17	+ 69 + 17	+ 23 0	+ 32 0	+ 52 0	+ 81 0	+130 0	+210 0	±11.5	± 16	± 26	+ 25 − 7	+ 36 − 16	+ 55 − 26	+ 5 − 27	+ 16 − 36	− 9 − 41	0 − 52
315	400	+ 54 + 18	+ 75 + 18	+ 25 0	+ 36 0	+ 57 0	+ 89 0	+140 0	+230 0	±12.5	± 18	± 28	+ 29 − 7	+ 39 − 18	+ 60 − 29	+ 7 − 29	+ 17 − 40	− 10 − 46	0 − 57
400	500	+ 60 + 20	+ 83 + 20	+ 27 0	+ 40 0	+ 63 0	+ 97 0	+155 0	+250 0	±13.5	± 20	± 31	+ 33 − 7	+ 43 − 20	+ 66 − 31	+ 8 − 32	+ 18 − 45	− 10 − 50	0 − 63

8. Interchange table for major manufacturers

JIB	SST	FAFNIR	NTN	FYH	NSK	Note
UC205-16	UC205-16	GC110KRRB	UC205-100D1	UC205-16	UC205-16S	Unit ball bearing
HC205-16	HC205-16	G1100KRRB	UELP205-100D1	NA205-16F	EW205-16S	
UCX05-16	UCX05-16		UCX05-100D1	UCX05-16	-	
SB205-16	SB205-16	YA100RRB	AS205-100	SB205-16	UB205-16S	
SA205-16	SA205-16	RA100RRB	AEL205-100	SA205-16	EN205-16S	
SER205-16	SER205-16	GC1100KRRG-2	UCS205-100DINR	ER205-16	-	
UR205-16	CUC205-16	-	-	RB205-16	UR205-16S	
UCP205-16	UCP205-16	RASC1	UCP205-100T	UCP205-16	UCP205-16S	Pillow block type unit
SBLP205-16	SBLP205-16	-	-	BLP205-16	UBLP205-16J	
UCPX05-16	UCPX05-16	RAKH1	UCPX05-100T	UCPX05-16	UCPX05-16S	
UCPA205-16	UCPA205-16	-	UCUP205-100T	UCPA205-16	UCPA205-16S	
HCP205-16	HCP205-16	-	UELP205-100T	NAP205-16	EWP205-16S	
SALP205-16	SALP205-16	-	-	ALP205-16	ENLP205-16J	
UCFL205-16	UCFL205-16	RCJCT1	UCFL205-100T	UCFL205-16	UCFL205-16S	Flange type unit
SBPLF205-16	SBLF205-16	-	ASFD205-100	BLF205-16	UBLF205-16BJ	
HCNFL205-16	HCFT205-16	RCJT1	UELFLU205-100T	NANFL205-16	EWFL205-16	
SALF205-16	SALF205-16	FLCT1	AELFD205-100	ALF205-16	ENLF205-168J	
UCF205-16	UCF205-16	RCJC1	UCF205-100T	UCF205-16	UCF205-16	
UCFX05-16	UCFX05-16	RCJ01	UCFX05-100T	UCFX05-16	UCFX05-16S	
HCNF205-16	HCFS205-16	-	UELFU205-100T	NANF205-16	EWF205-16S	
SBPP205-16	SBPP205-16	-	ASPP205-100	SBPP205-16F	UBPP205-16S	Pressed steel type unit
SAPP205-16	SAPP205-16	BP1	AELPP205-100	SAPP205-16F	ENPP205-16S	
SBPFL205-16	SBPFL205-16	-	ASPFL205-100	SBPFL205-16	UBPFL205-16	
SAPFL205-16	SAPFL205-16	RAT1	AELPFL205-100	SAPFL205-16	ENPFL205-16S	
SBPF205-16	SBPF205-16	-	ASPF205-100	SBPF205-16	UBPF205-16S	
SAPF205-16	SAPF205-16	RA1	AELPF205-100	SAPF205-16	ENPF205-16S	
UCT205-16	UCST205-16	-	UCT205-100T	UCT205-16	UCT205-16S	Take-up type unit
UCFC205-16	UCFC205-16	RFC1	UCFC205-100T	UCFC205-16	UCFC205-16S	Round flange type unit
UCHA205-16	UCSH205-16	-	UCHB205-100T	UCHA205-16	UCEH205-16S	Hanger type unit

9. Parallel pipe threads specification table (KS B 0221:2009)

(단위 : 1mm)

Name of screw		n per screw thread 25.4mm	Pitch P (참고)	Male screw		
				Major diameter	Effective pitch diameter	Minor diameter
				Female screw		
				Minor diameter	Effective pitch diameter	Major diameter
G 3/4	PF 3/4	14	1.814 3	26.441	25.279	24.117
G 1	PF 1	11	2.309 1	33.249	31.770	30.291
G 1 1/4	PF 1 1/4	11	2.309 1	41.910	40.431	38.952
G 1 1/2	PF 1 1/2	11	2.309 1	47.803	46.324	44.845

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