KOYO

L

【Ball bearing units】
連座軸承系列

UCP, UKP, UCIP, BLP, UP, UCSP, SBPP, UCF, UCFS, UCFL, BLF, UFL, UCSFL-H1S6, UCFC, SBPF, SBPFL, UCT, UCC, cylindrical bore type(with set screws), tapered bore type(with adapter), cylindrical bor type(with eccentric locking collar)

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Ball bearing units

Ball bearing units consist of pre-lubricated sealed ball bearings and a housing which varies in shape.

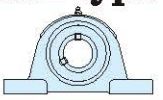
They are capable of aligning themselves efficiently using the spherical fitting surface between the bearing and housing, effectively preventing overloads due to misalignment.

Koyo ball bearing units are highly accurate and feature excellent load resistance. They are completely sealed, and provided with a relubrication feature.

Ball bearing units without a relubrication feature are also available.

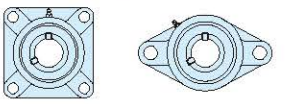
For details, refer to JTEKT separate catalog “Ball bearing units” (CAT. NO. B2007E).

Pillow block type



Bore diameter **12 – 140** mm

Flanged type

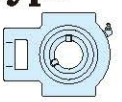


Bore diameter **12 – 140** mm

Flanged type with spigot joint

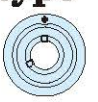
Bore diameter **12 – 140** mm

Take-up type



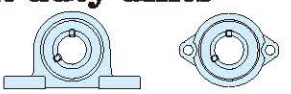
Bore diameter **12 – 140** mm

Cartridge type



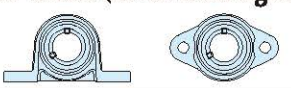
Bore diameter **12 – 140** mm

Light duty units



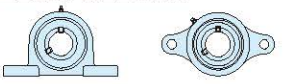
Bore diameter **12 – 40** mm

"Compact" series (made from light alloy)



Bore diameter **10 – 30** mm

Stainless-series

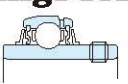


Bore diameter **12 – 50** mm

Pressed steel units

Bore diameter **12 – 35** mm

Ball bearings for units



Bore diameter **10 – 140** mm

Typical types of ball bearing unit

(1) Cast iron units

Pillow block type
- ● UCP 2·X·3
- ▲ UKP 2·X·3
- ■ NAP 2

Square-flanged type
- ● UCF 2·X·3
- ▲ UKF 2·X·3
- ■ NANF 2

Square-flanged type with spigot joint
- ● UCFS 3
- ▲ UKFS 3

Rhombic-flanged type
- ● UCFL 2·X·3
- ▲ UKFL 2·X·3
- ■ NANFL 2

Round-flanged type with spigot joint
- ● UCFC 2·X
- ▲ UKFC 2·X
- ■ NAFC 2

Take-up type
- ● UCT 2·X·3
- ▲ UKT 2·X·3
- ■ NAT 2

Cartridge type
- ● UCC 2·X·3
- ▲ UKC 2·X·3
- ■ NAC 2

Special pillow block types

● UCPH 2 ● UCPA 2

Thick section pillow block type

● UCIP 2·3
▲ UKIP 2·3

Flanged types

● UCFA 2 ● UCFB 2

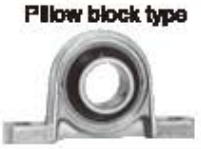
Hanger type

● UCHA 2

(2) Light duty units (cast iron)

Pillow block type	Rhombic-flanged type
	
■ BLP 2	■ BLF 2

(3) "Compact" series units (special light alloy)

Pillow block type	Rhombic-flanged type
	
● UP 0	● UFL 0

(4) Stainless-series units (stainless steel)

Pillow block type	Rhombic-flanged type
	
● UCSP 2...H1S6	● UCSFL 2...H1S6
	
● USP 0...S6	● USFL 0...S6

(5) Pressed steel units

		
● SBPP2	● SBPFL2	● SBPF2

(6) Take-up units with frame

	
● UCTH 2 (● SBNPTH 2 ● SBPTH 2)	● UCTL 2 ● UCTU 2 ● UCTU 3

(7) Ball bearings for units

Cylindrical bore type
(with set screws)

- UC 2·X·3
- SB 2
- SU 0

Cylindrical bore type
(with set screws)

- RB 2

(Sealed deep groove ball bearings having an extended inner ring.)

Tapered bore type
(with adapter)

- ▲ UK 2·X·3

Cylindrical bore type
(with set screws)

- ER 2

(Sealed deep groove ball bearings having an extended inner ring and an outer ring provided with a locating snap ring, lubrication groove and lubrication holes.)

Cylindrical bore type
(with eccentric locking collar)

- ■ NA 2

[Note] This catalog includes the specifications of major units and bearings which are boxed in the table. For further details, refer to a separate catalog.
Marks ●, ▲ and ■ indicate, respectively, that the unit or bearing is fixed with a set screw, adapter, or eccentric locking collar.

Tolerances	· Ball bearings ..... as specified in JIS B 1558 (Tables 1 and 2). (refer to Table 7-11, class 0 on p. A 70 for the tapered bore tolerance.) · Housings.....as specified in JIS B 1559. (the internal spherical diameter tolerance is given in Table 3. For other tolerances, refer to a separate catalog.)
Bearing radial internal clearance	As specified in JIS B 1520 (Table 10-2 on p. A 96). JTEKT provides cylindrical bore bearings with standard radial internal clearance. Tapered bore bearings are provided with a C 3 radial internal clearance in consideration of possible inner ring expansion caused by tightening of an adapter.
Recommended fits of inner ring and shaft (indicated by the tolerance class)	· Cylindrical bore bearings.....h 6, h 7, h 8, j 6 (k 6, k 7 and m 6 when heavy or impact load is to be supported.) · Tapered bore bearings.....h 8, h 9 · High-speed blower bearings (S5)...h 5, j 5
Rotational speed limits	See Table 4.
Allowable aligning angle	· 0.052 rad (3°) · For units with a cover, it is best if the misalignment is 0.017 rad (1°) or less to prevent the rubber seal lip on the cover and the shaft contact from distorting the seal lip.

NOTES

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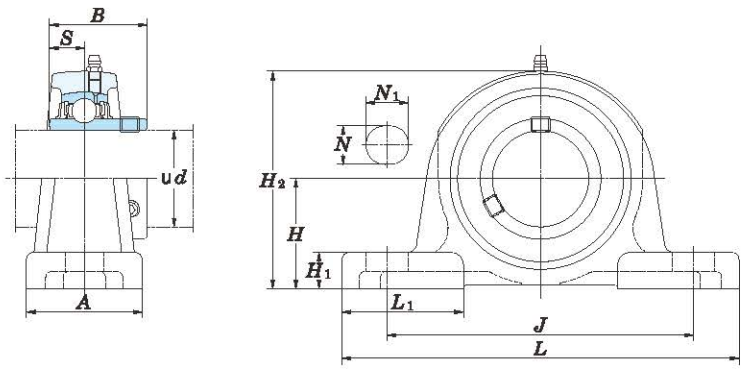
Ball bearing units
pillow block type
UCP (with set screws)
d 12 ~ (55) mm



Shaft dia. (mm)	Dimensions (mm)											Bolt size	Unit No.	Housing No.
d	H	L	A	J	N	N_1	H_1	H_2	L_1	B	S			
12	30.2	127	38	95	13	18	12	60	38	31	12.7	M10	**UCP201**	P203
15	30.2	127	38	95	13	18	12	60	38	31	12.7	M10	**UCP202**	P203
17	30.2	127	38	95	13	18	12	60	38	31	12.7	M10	**UCP203**	P203
20	33.3	127	38	95	13	18	13	64	38	31	12.7	M10	**UCP204**	P204
25	36.5	140	38	105	13	18	13	71	43	34.1	14.3	M10	**UCP205**	P205
	44.4	159	51	119	17	25	16	86	47	38.1	15.9	M14	**UCPX05**	PX05
	45	175	45	132	17	20	16	85	55	38	15	M14	**UCP305**	P305
30	42.9	165	48	121	17	21	15	84	53	38.1	15.9	M14	**UCP206**	P206
	47.6	175	57	127	17	25	17	93	55	42.9	17.5	M14	**UCPX06**	PX06
	50	180	50	140	17	20	17	95	53	43	17	M14	**UCP306**	P306
35	47.6	167	48	127	17	21	16	93	51	42.9	17.5	M14	**UCP207**	P207
	54	203	57	144	17	30	19	105	64	49.2	19	M14	**UCPX07**	PX07
	56	210	56	160	17	25	19	107	65	48	19	M14	**UCP307**	P307
40	49.2	184	54	137	17	21	17	98	57	49.2	19	M14	**UCP208**	P208
	58.7	222	67	156	20	32	21	114	71	49.2	19	M16	**UCPX08**	PX08
	60	220	60	170	17	27	19	118	65	52	19	M14	**UCP308**	P308
45	54	190	54	146	17	21	17	106	60	49.2	19	M14	**UCP209**	P209
	58.7	222	67	156	20	33	21	116	71	51.6	19	M16	**UCPX09**	PX09
	67	245	67	190	20	30	21	132	75	57	22	M16	**UCP309**	P309
50	57.2	206	60	159	20	22	19	113	63	51.6	19	M16	**UCP210**	P210
	63.5	241	73	171	20	36	22	126	76	55.6	22.2	M16	**UCPX10**	PX10
	75	275	75	212	20	35	24	148	88	61	22	M16	**UCP310**	P310
55	63.5	219	60	171	20	22	19	125	70	55.6	22.2	M16	**UCP211**	P211

[Remarks] 1) Applicable sizes of grease nipples are shown below.
A-1/4-28UNF..... 201~210, X05~X09, 305~308
A-PT 1/8 ..... 211~218, X10~X20, 309~328

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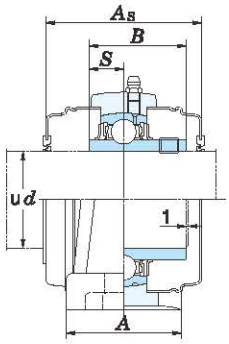
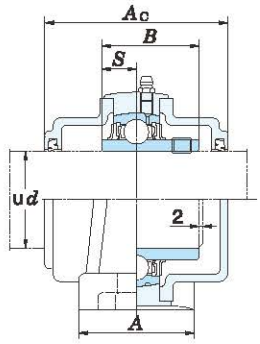
Pressed steel covers



Cast iron covers



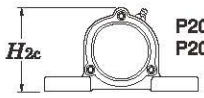
Tolerance for housing

unit : mm

housing No.			3 H_s
P203~ P210	PX05~ PX10	P305~ P310	±0.15
P211~ P218	PX11~ PX18	P311~ P318	±0.2
	PX20	P319~ P328	±0.3

3 H_s : deviation of distance from mounting base to centre of spherical bearing seating.

P204JE3, P205JE3 (with cast iron covers) are shown below.



P204JE3 H_{2c} = 70 mm
P205JE3 H_{2c} = 77 mm

No.	Applicable bearing: Basic load ratings (kN) C_r	C_{0r}	Factor f_0	Unit No. with covers: Pressed steel covers Open ends	Pressed steel covers Closed end	Cast iron covers Open ends	Cast iron covers Closed end	Cover dimensions (mm) A_s	A_c	(Refer.) Unit mass (kg) Pressed steel covers	Cast iron covers
UC201	12.8	6.65	13.2	UCP201C	UCP201CD	—	—	44	—	0.63	—
UC202	12.8	6.65	13.2	UCP202C	UCP202CD	—	—	44	—	0.61	—
UC203	12.8	6.65	13.2	UCP203C	UCP203CD	—	—	44	—	0.60	—
UC204	12.8	6.65	13.2	UCP204C	UCP204CD	UCP204FC	UCP204FCD	44	62	0.66	0.96
UC205	14.0	7.85	13.9	UCP205C	UCP205CD	UCP205FC	UCP205FCD	48	66	0.80	1.2
UCX05	19.5	11.3	13.9	UCPX05C	UCPX05CD	—	—	52	—	1.5	—
UC305	21.2	10.9	12.6	—	—	UCP305C	UCP305CD	—	76	1.7	2.3
UC206	19.5	11.3	13.9	UCP206C	UCP206CD	UCP206FC	UCP206FCD	52	70	1.3	1.8
UCX06	25.7	15.4	13.9	UCPX06C	UCPX06CD	—	—	59	—	2.1	—
UC306	26.7	15.0	13.3	—	—	UCP306C	UCP306CD	—	82	2.2	2.8
UC207	25.7	15.4	13.9	UCP207C	UCP207CD	UCP207FC	UCP207FCD	59	78	1.6	2.3
UCX07	29.1	17.8	14.0	UCPX07C	UCPX07CD	—	—	68	—	2.7	—
UC307	33.4	19.3	13.2	—	—	UCP307C	UCP307CD	—	88	3.0	3.8
UC208	29.1	17.8	14.0	UCP208C	UCP208CD	UCP208FC	UCP208FCD	68	86	2.0	2.8
UCX08	32.7	20.3	14.0	UCPX08C	UCPX08CD	—	—	68	—	3.5	—
UC308	40.7	24.0	13.2	—	—	UCP308C	UCP308CD	—	96	3.8	4.8
UC209	32.7	20.3	14.0	UCP209C	UCP209CD	UCP209FC	UCP209FCD	68	88	2.2	3.0
UCX09	35.1	23.3	14.4	UCPX09C	UCPX09CD	—	—	73	—	3.7	—
UC309	48.9	29.5	13.3	—	—	UCP309C	UCP309CD	—	102	4.9	6.2
UC210	35.1	23.3	14.4	UCP210C	UCP210CD	UCP210FC	UCP210FCD	73	97	2.9	3.9
UCX10	43.4	29.4	14.4	UCPX10C	UCPX10CD	—	—	75	—	4.6	—
UC310	62.0	38.3	13.2	—	—	UCP310C	UCP310CD	—	110	6.6	8.2
UC211	43.4	29.4	14.4	UCP211C	UCP211CD	UCP211FC	UCP211FCD	75	99	3.6	4.8

2) For bearings with double- or triple-lip seals, unit and bearing number are suffixed by L2 or L3.
3) For more detailed information, refer to ball bearing for unit specification tables.

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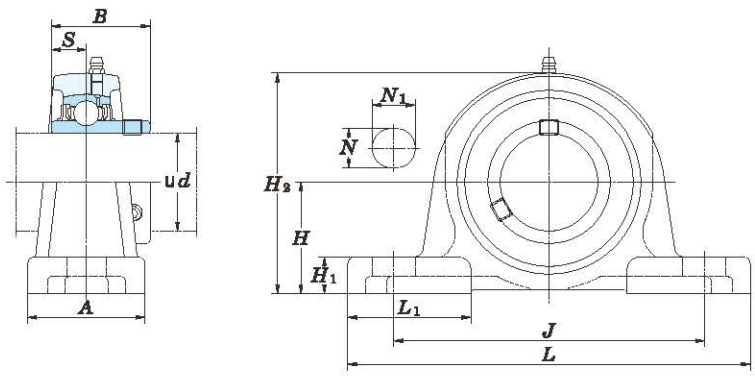
Ball bearing units
pillow block type
UCP (with set screws)
d (55) ~ 95 mm



Shaft dia. (mm)	Dimensions (mm)											Bolt size	Unit No.	Housing No.
d	H	L	A	J	N	N_1	H_1	H_2	L_1	B	S			
55	69.8	260	79	184	25	36	28	139	83	65.1	25.4	M20	**UCPX11**	PX11
	80	310	80	236	20	38	27	158	90	66	25	M16	**UCP311**	P311
60	69.8	241	70	184	20	25	22	138	76	65.1	25.4	M16	**UCP212**	P212
	76.2	286	83	203	25	40	28	152	88	65.1	25.4	M20	**UCPX12**	PX12
	85	330	85	250	25	38	29	167	103	71	26	M20	**UCP312**	P312
65	76.2	265	70	203	25	30	25	150	78	65.1	25.4	M20	**UCP213**	P213
	76.2	286	83	203	25	40	28	155	88	74.6	30.2	M20	**UCPX13**	PX13
	90	340	90	260	25	38	32	176	110	75	30	M20	**UCP313**	P313
70	79.4	266	72	210	25	30	28	156	78	74.6	30.2	M20	**UCP214**	P214
	88.9	330	89	229	27	50	32	171	98	77.8	33.3	M22	**UCPX14**	PX14
	95	360	90	280	27	40	35	186	110	78	33	M22	**UCP314**	P314
75	82.6	275	74	217	25	30	28	162	80	77.8	33.3	M20	**UCP215**	P215
	88.9	330	89	229	27	50	32	175	99	82.6	33.3	M22	**UCPX15**	PX15
	100	380	100	290	27	40	35	198	107	82	32	M22	**UCP315**	P315
80	88.9	292	78	232	25	35	32	174	86	82.6	33.3	M20	**UCP216**	P216
	101.6	381	102	283	27	58	34	195	116	85.7	34.1	M22	**UCPX16**	PX16
	106	400	110	300	27	40	35	209	120	86	34	M22	**UCP316**	P316
85	95.2	310	83	247	25	40	32	185	90	85.7	34.1	M20	**UCP217**	P217
	101.6	381	102	283	27	60	34	200	116	96	39.7	M22	**UCPX17**	PX17
	112	420	110	320	33	45	40	220	120	96	40	M27	**UCP317**	P317
90	101.6	327	88	262	27	45	34	198	104	96	39.7	M22	**UCP218**	P218
	101.6	381	111	283	27	60	38	204	116	104	42.9	M22	**UCPX18**	PX18
	118	430	110	330	33	45	40	234	120	96	40	M27	**UCP318**	P318
95	125	470	120	360	36	50	46	248	125	103	41	M30	**UCP319**	P319

[Remarks] 1) Applicable sizes of grease nipples are shown below.
A-1/4-28UNF..... 201~210, X05~X09, 305~308
A-PT 1/8 ..... 211~218, X10~X20, 309~328

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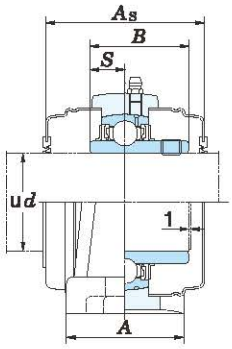
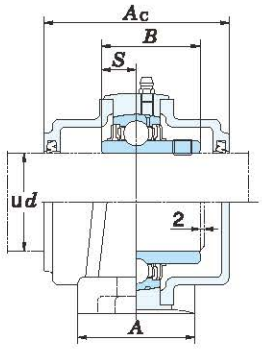
Pressed steel covers



Cast iron covers



Tolerance for housing

unit : mm

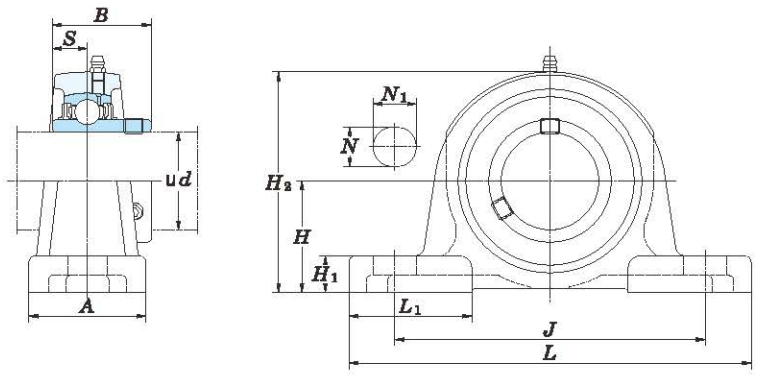
housing No.			3 H_s
P203~ P210	PX05~ PX10	P305~ P310	±0.15
P211~ P218	PX11~ PX18	P311~ P318	±0.2
	PX20	P319~ P328	±0.3

3 H_s : deviation of distance from mounting base to centre of spherical bearing seating.

No.	Applicable bearing: Basic load ratings (kN) C_r	C_{0r}	Factor f_0	Unit No. with covers: Pressed steel covers Open ends	Closed end	Cast iron covers Open ends	Closed end	Cover dimensions (mm) A_s	A_c	(Refer.) Unit mass (kg) Pressed steel covers	Cast iron covers
UCX11	52.4	36.2	14.4	UCPX11C	UCPX11CD	—	—	88	—	6.5	—
UC311	71.6	45.0	13.2	—	—	UCP311C	UCP311CD	—	114	7.9	9.7
UC212	52.4	36.2	14.4	UCP212C	UCP212CD	UCP212FC	UCP212FCD	88	114	4.9	6.4
UCX12	57.2	40.1	14.4	UCPX12C	UCPX12CD	—	—	88	—	7.7	—
UC312	81.9	52.2	13.2	—	—	UCP312C	UCP312CD	—	124	9.5	11.8
UC213	57.2	40.1	14.4	UCP213C	UCP213CD	UCP213FC	UCP213FCD	88	114	5.9	7.6
UCX13	62.2	44.1	14.5	UCPX13C	UCPX13CD	—	—	98	—	8.1	—
UC313	92.7	59.9	13.2	—	—	UCP313C	UCP313CD	—	122	10.7	12.8
UC214	62.2	44.1	14.5	UCP214C	UCP214CD	UCP214FC	UCP214FCD	98	124	6.8	8.7
UCX14	67.4	48.3	14.5	UCPX14C	UCPX14CD	—	—	98	—	10.2	—
UC314	104	68.2	13.2	—	—	UCP314C	UCP314CD	—	124	12.4	14.7
UC215	67.4	48.3	14.5	UCP215C	UCP215CD	UCP215FC	UCP215FCD	98	124	7.4	9.3
UCX15	72.7	53.0	14.6	UCPX15C	UCPX15CD	—	—	108	—	10.8	—
UC315	113	77.2	13.2	—	—	UCP315C	UCP315CD	—	134	14.8	17.3
UC216	72.7	53.0	14.6	UCP216C	UCP216CD	UCP216FC	UCP216FCD	108	138	9.0	11.4
UCX16	84.0	61.9	14.5	UCPX16C	UCPX16CD	—	—	112	—	15.3	—
UC316	123	86.7	13.3	—	—	UCP316C	UCP316CD	—	138	18.5	21.4
UC217	84.0	61.9	14.5	UCP217C	UCP217CD	UCP217FC	UCP217FCD	112	142	10.8	13.5
UCX17	96.1	71.5	14.5	UCPX17C	UCPX17CD	—	—	122	—	16.1	—
UC317	133	96.8	13.3	—	—	UCP317C	UCP317CD	—	146	20.3	23.6
UC218	96.1	71.5	14.5	UCP218C	UCP218CD	UCP218FC	UCP218FCD	122	152	13.9	17.0
UCX18	109	81.9	14.4	—	—	UCPX18C	UCPX18CD	—	158	19.1	22.5
UC318	143	107	13.3	—	—	UCP318C	UCP318CD	—	150	22.8	26.6
UC319	153	119	13.3	—	—	UCP319C	UCP319CD	—	162	29.0	33.3

2) For bearings with double- or triple-lip seals, unit and bearing number are suffixed by L2 or L3.
3) For more detailed information, refer to ball bearing for unit specification tables.

Ball bearing units
pillow block type
UCP (with set screws)
d 100 ~ 140 mm



Shaft dia. (mm) d	Dimensions (mm) H	L	A	J	N	N_1	H_1	H_2	L_1	B	S	Bolt size	Unit No.	Housing No.
100	127	432	121	337	33	65	45	245	126	117.5	49.2	M27	**UCPX20**	PX20
	140	490	120	380	36	50	46	273	140	108	42	M30	**UCP320**	P320
105	140	490	120	380	36	50	46	278	140	112	44	M30	**UCP321**	P321
110	150	520	140	400	40	55	50	296	150	117	46	M33	**UCP322**	P322
120	160	570	140	450	40	55	50	316	160	126	51	M33	**UCP324**	P324
130	180	600	140	480	40	55	50	355	195	135	54	M33	**UCP326**	P326
140	200	620	140	500	40	55	60	393	185	145	59	M33	**UCP328**	P328

[Remarks] 1) Applicable sizes of grease nipples are shown below.
A-1/4-28UNF..... 201~210, X05~X09, 305~308
A-PT 1/8 ..... 211~218, X10~X20, 309~328

L

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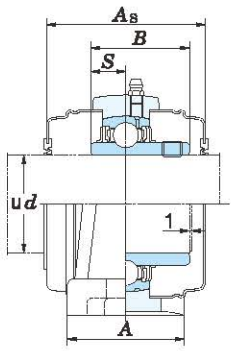
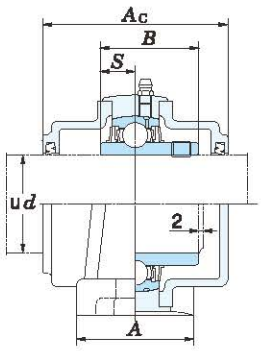
Pressed steel covers



Cast iron covers



Tolerance for housing

unit : mm

housing No.			3_{Hs}
P203~ P210	PX05~ PX10	P305~ P310	±0.15
P211~ P218	PX11~ PX18	P311~ P318	±0.2
	PX20	P319~ P328	±0.3

3_{Hs} : deviation of distance from mounting base to centre of spherical bearing seating.

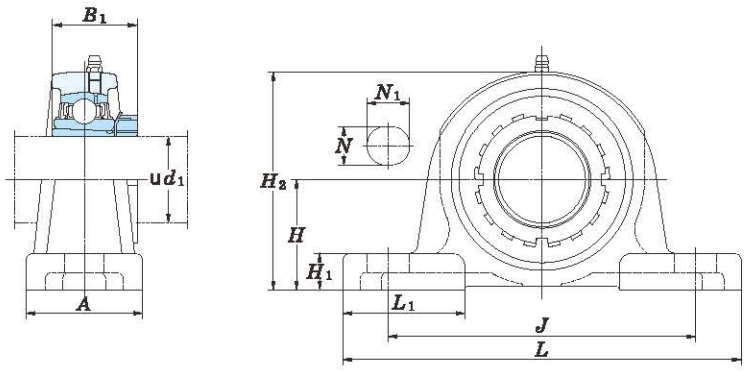
Applicable bearing No.	Basic load ratings (kN) C_r	C_{0r}	Factor f_0	Unit No. with covers: Pressed steel covers Open ends	Pressed steel covers Closed end	Cast iron covers Open ends	Cast iron covers Closed end	Cover dimensions (mm) A_s	A_c	(Refer.) Unit mass (kg) Pressed steel covers	Cast iron covers
UCX20	133	105	14.4	—	—	UCPX20C	UCPX20CD	—	186	30.4	34.9
UC320	173	141	13.2	—	—	UCP320C	UCP320CD	—	174	35.1	40.7
UC321	184	153	13.2	—	—	UCP321C	UCP321CD	—	178	37.6	43.6
UC322	205	180	13.2	—	—	UCP322C	UCP322CD	—	188	44.0	50.8
UC324	207	185	13.5	—	—	UCP324C	UCP324CD	—	196	55.4	64.9
UC326	229	214	13.6	—	—	UCP326C	UCP326CD	—	214	72.1	84.2
UC328	253	246	13.6	—	—	UCP328C	UCP328CD	—	222	92.5	108

2) For bearings with double- or triple-lip seals, unit and bearing number are suffixed by L2 or L3.
3) For more detailed information, refer to ball bearing for unit specification tables.

L

Ball bearing units pillow block type UKP (with adapter)

d_1 20 ~ 55 mm



Shaft dia. (mm) d_1	Dimensions (mm) H	L	A	J	N	N_1	H_1	H_2	L_1	B_1 1)	Bolt size	Unit No.	Housing No.
20	36.5	140	38	105	13	18	13	71	43	29(35)	M10	**UKP205**	P205
	44.4	159	51	119	17	25	16	86	47	35	M14	**UKPX05**	PX05
	45	175	45	132	17	20	16	85	55	35	M14	**UKP305**	P305
25	42.9	165	48	121	17	21	15	84	53	31(38)	M14	**UKP206**	P206
	47.6	175	57	127	17	25	17	93	55	38	M14	**UKPX06**	PX06
	50	180	50	140	17	20	17	95	53	38	M14	**UKP306**	P306
30	47.6	167	48	127	17	21	16	93	51	35(43)	M14	**UKP207**	P207
	54	203	57	144	17	30	19	105	64	43	M14	**UKPX07**	PX07
	56	210	56	160	17	25	19	107	65	43	M14	**UKP307**	P307
35	49.2	184	54	137	17	21	17	98	57	36(46)	M14	**UKP208**	P208
	58.7	222	67	156	20	32	21	114	71	46	M16	**UKPX08**	PX08
	60	220	60	170	17	27	19	118	65	46	M14	**UKP308**	P308
40	54	190	54	146	17	21	17	106	60	39(50)	M14	**UKP209**	P209
	58.7	222	67	156	20	33	21	116	71	50	M16	**UKPX09**	PX09
	67	245	67	190	20	30	21	132	75	50	M16	**UKP309**	P309
45	57.2	206	60	159	20	22	19	113	63	42(55)	M16	**UKP210**	P210
	63.5	241	73	171	20	36	22	126	76	55	M16	**UKPX10**	PX10
	75	275	75	212	20	35	24	148	88	55	M16	**UKP310**	P310
50	63.5	219	60	171	20	22	19	125	70	45(59)	M16	**UKP211**	P211
	69.8	260	79	184	25	36	28	139	83	59	M20	**UKPX11**	PX11
	80	310	80	236	20	38	27	158	90	59	M16	**UKP311**	P311
55	69.8	241	70	184	20	25	22	138	76	47(62)	M16	**UKP212**	P212
	76.2	286	83	203	25	40	28	152	88	62	M20	**UKPX12**	PX12
	85	330	85	250	25	38	29	167	103	62	M20	**UKP312**	P312

[Note] 1) ( ) Shown for use triple lipseal bearing and applicable adapter No.(H2300X series).
[Remarks] 1) Applicable sizes of grease nipples are shown below.
A-1/4-28UNF..... 205~210, X05~X09, 305~308
A-PT 1/8 ..... 211~218, X10~X20, 309~328

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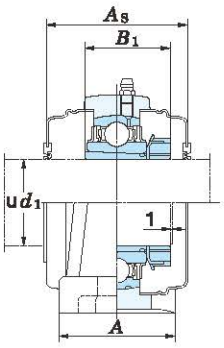
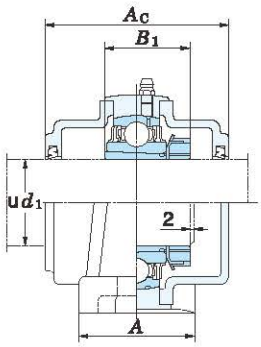
Pressed steel covers



Cast iron covers



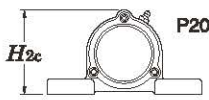
Tolerance for housing

unit : mm

housing No.			3 Hs
P205~P210	PX05~PX10	P305~P310	±0.15
P211~P218	PX11~PX18	P311~P318	±0.2
	PX20	P319~P328	±0.3

3 Hs : deviation of distance from mounting base to centre of spherical bearing seating.

P205JE3 (with cast iron covers) are shown below.



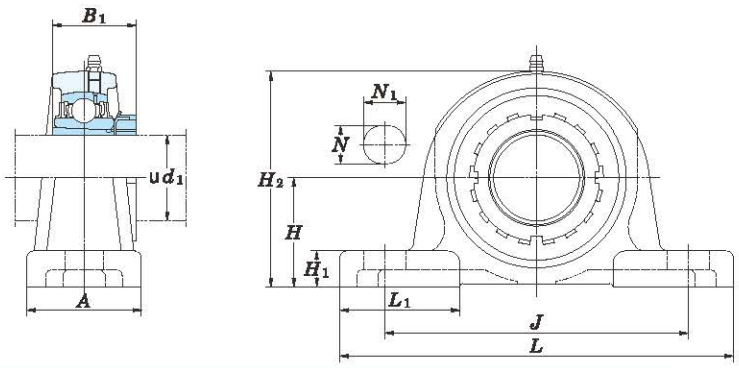
P205JE3 H_{2c} = 77 mm

No.	Applicable bearing: Basic load ratings (kN) C_r	C_{0r}	Factor f_0	Applicable[1] adapter No.	Unit No. with covers: Pressed steel covers Open ends	Pressed steel covers Closed end	Cast iron covers Open ends	Cast iron covers Closed end	Cover dimensions (mm) A_s	A_c	(Refer.) Unit mass (kg) Pressed steel covers	Cast iron covers
UK205	14.0	7.85	13.9	H305X(H2305X)	UKP205C	UKP205CD	UKP205FC	UKP205FCD	48	66	0.84	1.3
UKX05	19.5	11.3	13.9	H2305X	UKPX05C	UKPX05CD	—	—	52	—	1.5	—
UK305	21.2	10.9	12.6	H2305X	—	—	UKP305C	UKP305CD	—	76	1.7	2.3
UK206	19.5	11.3	13.9	H306X(H2306X)	UKP206C	UKP206CD	UKP206FC	UKP206FCD	52	70	1.4	1.9
UKX06	25.7	15.4	13.9	H2306X	UKPX06C	UKPX06CD	—	—	59	—	2.1	—
UK306	26.7	15.0	13.3	H2306X	—	—	UKP306C	UKP306CD	—	82	2.3	2.9
UK207	25.7	15.4	13.9	H307X(H2307X)	UKP207C	UKP207CD	UKP207FC	UKP207FCD	59	78	1.7	2.5
UKX07	29.1	17.8	14.0	H2307X	UKPX07C	UKPX07CD	—	—	68	—	2.7	—
UK307	33.4	19.3	13.2	H2307X	—	—	UKP307C	UKP307CD	—	88	3.0	3.9
UK208	29.1	17.8	14.0	H308X(H2308X)	UKP208C	UKP208CD	UKP208FC	UKP208FCD	68	86	2.0	2.9
UKX08	32.7	20.3	14.0	H2308X	UKPX08C	UKPX08CD	—	—	68	—	3.5	—
UK308	40.7	24.0	13.2	H2308X	—	—	UKP308C	UKP308CD	—	96	3.8	5.2
UK209	32.7	20.3	14.0	H309X(H2309X)	UKP209C	UKP209CD	UKP209FC	UKP209FCD	68	88	2.3	3.2
UKX09	35.1	23.3	14.4	H2309X	UKPX09C	UKPX09CD	—	—	73	—	3.7	—
UK309	48.9	29.5	13.3	H2309X	—	—	UKP309C	UKP309CD	—	102	5.0	6.3
UK210	35.1	23.3	14.4	H310X(H2310X)	UKP210C	UKP210CD	UKP210FC	UKP210FCD	73	97	3.0	4.1
UKX10	43.4	29.4	14.4	H2310X	UKPX10C	UKPX10CD	—	—	75	—	4.6	—
UK310	62.0	38.3	13.2	H2310X	—	—	UKP310C	UKP310CD	—	110	6.7	8.4
UK211	43.4	29.4	14.4	H311X(H2311X)	UKP211C	UKP211CD	UKP211FC	UKP211FCD	75	99	3.7	5.0
UKX11	52.4	36.2	14.4	H2311X	UKPX11C	UKPX11CD	—	—	88	—	6.2	—
UK311	71.6	45.0	13.2	H2311X	—	—	UKP311C	UKP311CD	—	114	8.1	10.0
UK212	52.4	36.2	14.4	H312X(H2312X)	UKP212C	UKP212CD	UKP212FC	UKP212FCD	88	114	4.8	6.3
UKX12	57.2	40.1	14.4	H2312X	UKPX12C	UKPX12CD	—	—	88	—	7.5	—
UK312	81.9	52.2	13.2	H2312X	—	—	UKP312C	UKP312CD	—	124	9.4	11.8

2) Unit No. means housing and bearing assembly, whole complete unit No. is given follows. (UKP206+H306X,UK206+H306X)
3) For bearings with double- or triple-lip seals, unit and bearing number are suffixed by L2 or L3. (UKP206JL3+H2306X, UK206L3+H2306X)
4) For more detailed information, refer to ball bearing for unit specification tables. Not applied to UKX series.

Ball bearing units pillow block type UKP (with adapter)

d_1 60 ~ 125 mm



Shaft dia. (mm) d_1	Dimensions (mm) H	L	A	J	N	N_1	H_1	H_2	L_1	B_1 1)	Bolt size	Unit No.	Housing No.
60	76.2	265	70	203	25	30	25	150	78	50(65)	M20	UKP213	P213
	76.2	286	83	203	25	40	28	155	88	65	M20	UKPX13	PX13
	90	340	90	260	25	38	32	176	110	65	M20	UKP313	P313
65	82.6	275	74	217	25	30	28	162	80	55(73)	M20	UKP215	P215
	88.9	330	89	229	27	50	32	175	99	73	M22	UKPX15	PX15
	100	380	100	290	27	40	35	198	107	73	M22	UKP315	P315
70	88.9	292	78	232	25	35	32	174	86	59(78)	M20	UKP216	P216
	101.6	381	102	283	27	58	34	195	116	78	M22	UKPX16	PX16
	106	400	110	300	27	40	35	209	120	78	M22	UKP316	P316
75	95.2	310	83	247	25	40	32	185	90	63(82)	M20	UKP217	P217
	101.6	381	102	283	27	60	34	200	116	82	M22	UKPX17	PX17
	112	420	110	320	33	45	40	220	120	82	M27	UKP317	P317
80	101.6	327	88	262	27	45	34	198	104	65(86)	M22	UKP218	P218
	101.6	381	111	283	27	60	38	204	116	86	M22	UKPX18	PX18
	118	430	110	330	33	45	40	234	120	86	M27	UKP318	P318
85	125	470	120	360	36	50	46	248	125	90	M30	UKP319	P319
90	127	432	121	337	33	65	45	245	126	97	M27	UKPX20	PX20
	140	490	120	380	36	50	46	273	140	97	M30	UKP320	P320
100	150	520	140	400	40	55	50	296	150	105	M33	UKP322	P322
110	160	570	140	450	40	55	50	316	160	112	M33	UKP324	P324
115	180	600	140	480	40	55	50	355	195	121	M33	UKP326	P326
125	200	620	140	500	40	55	60	393	185	131	M33	UKP328	P328

[Note] 1) ( ) Shown for use triple lipseal bearing and applicable adapter No.(H2300X series).
[Remarks] 1) Applicable sizes of grease nipples are shown below.
A-1/4-28UNF..... 205~210, X05~X09, 305~308
A-PT 1/8 ..... 211~218, X10~X20, 309~328

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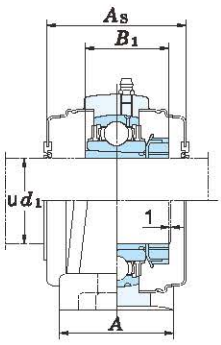
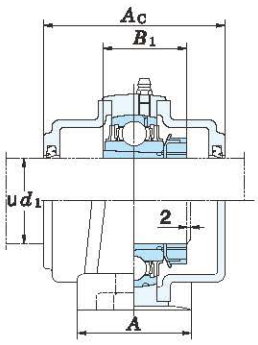
Pressed steel covers



Cast iron covers



Tolerance for housing

unit : mm

housing No.			3_{Hs}
P205~ P210	PX05~ PX10	P305~ P310	±0.15
P211~ P218	PX11~ PX18	P311~ P318	±0.2
	PX20	P319~ P328	±0.3

3_{Hs} : deviation of distance from mounting base to centre of spherical bearing seating.

No.	Applicable bearing Basic load ratings (kN) C_r	C_{0r}	Factor f_0	Applicable[1] adapter No.	Unit No. with covers Pressed steel covers Open ends	Pressed steel covers Closed end	Cast iron covers Open ends	Cast iron covers Closed end	Cover dimensions (mm) A_s	A_c	(Refer.) Unit mass(kg) Pressed steel covers	Cast iron covers
UK213	57.2	40.1	14.4	H313X(H2313X)	UKP213C	UKP213CD	UKP213FC	UKP213FCD	88	114	5.8	7.5
UKX13	62.2	44.1	14.5	H2313X	UKPX13C	UKPX13CD	—	—	98	—	7.8	—
UK313	92.7	59.9	13.2	H2313X	—	—	UKP313C	UKP313CD	—	122	10.8	13.2
UK215	67.4	48.3	14.5	H315X(H2315X)	UKP215C	UKP215CD	UKP215FC	UKP215FCD	98	124	7.5	9.5
UKX15	72.7	53.0	14.6	H2315X	UKPX15C	UKPX15CD	—	—	108	—	10.5	—
UK315	113	77.2	13.2	H2315X	—	—	UKP315C	UKP315CD	—	134	14.9	17.7
UK216	72.7	53.0	14.6	H316X(H2316X)	UKP216C	UKP216CD	UKP216FC	UKP216FCD	108	138	9.2	11.7
UKX16	84.0	61.9	14.5	H2316X	UKPX16C	UKPX16CD	—	—	112	—	15.4	—
UK316	123	86.7	13.3	H2316X	—	—	UKP316C	UKP316CD	—	138	18.6	21.7
UK217	84.0	61.9	14.5	H317X(H2317X)	UKP217C	UKP217CD	UKP217FC	UKP217FCD	112	142	11.0	13.8
UKX17	96.1	71.5	14.5	H2317X	UKPX17C	UKPX17CD	—	—	122	—	15.8	—
UK317	133	96.8	13.3	H2317X	—	—	UKP317C	UKP317CD	—	146	20.2	23.7
UK218	96.1	71.5	14.5	H318X(H2318X)	UKP218C	UKP218CD	UKP218FC	UKP218FCD	122	152	13.8	18.8
UKX18	109	81.9	14.4	H2318X	—	—	UKPX18C	UKPX18CD	—	158	18.6	22.4
UK318	143	107	13.3	H2318X	—	—	UKP318C	UKP318CD	—	150	22.8	27.0
UK319	153	119	13.3	H2319X	—	—	UKP319C	UKP319CD	—	162	29.3	34.0
UKX20	133	105	14.4	H2320X	—	—	UKPX20C	UKPX20CD	—	186	29.3	34.3
UK320	173	141	13.2	H2320X	—	—	UKP320C	UKP320CD	—	174	34.8	41.0
UK322	205	180	13.2	H2322X	—	—	UKP322C	UKP322CD	—	188	43.9	50.8
UK324	207	185	13.5	H2324	—	—	UKP324C	UKP324CD	—	196	55.7	66.0
UK326	229	214	13.6	H2326	—	—	UKP326C	UKP326CD	—	214	71.9	85.2
UK328	253	246	13.6	H2328	—	—	UKP328C	UKP328CD	—	222	92.5	109

2) Unit No. means housing and bearing assembly, whole complete unit No. is given follows. (UKP206+H306X,UK206+H306X)
3) For bearings with double- or triple-lip seals, unit and bearing number are suffixed by L2 or L3. (UKP206JL3+H2306X, UK206L3+H2306X)
4) For more detailed information, refer to ball bearing for unit specification tables. Not applied to UKX series.

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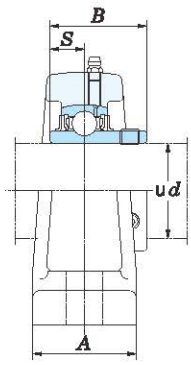
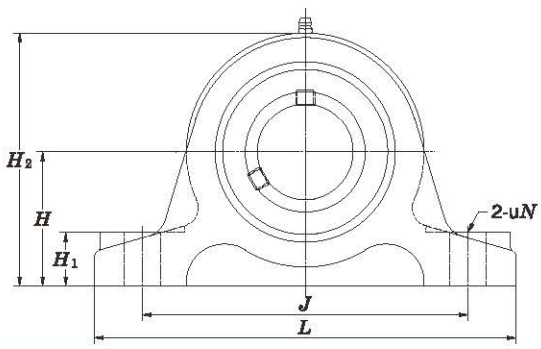
Ball bearing units
thick section pillow block type
UCIP (with set screws)
d 40 ~ 140 mm





Shaft dia. (mm)	Dimensions (mm)									Bolt size	Unit No.	Housing No.	
d	H	L	A	J	N	H_1	H_2	B	S				
40	60	200	60	150	19	25	115	49.2	19	M16	UCIP208	IP208	
45	70	210	60	160	19	25	128	49.2	19	M16	UCIP209	IP209	
50	70	220	60	170	19	28	132	51.6	19	M16	UCIP210	IP210	
55	80	230	60	180	19	28	148	55.6	22.2	M16	UCIP211	IP211	
60	80	260	70	200	22	30	155	65.1	25.4	M20	UCIP212	IP212	
65	90 110	280 310	70 70	220 250	22 22	30 30	172 208	65.1 75	25.4 30	M20 M20	UCIP213 UCIP313	IP213 IP313	
70	110	330	75	270	25	35	215	78	33	M22	UCIP314	IP314	
75	120	340	75	280	25	35	230	82	32	M22	UCIP315	IP315	
80	120	350	85	290	25	40	235	86	34	M22	UCIP316	IP316	
85	130	370	85	310	25	40	255	96	40	M22	UCIP317	IP317	
90	130	400	85	330	29	45	260	96	40	M27	UCIP318	IP318	
95	150	410	85	340	29	45	285	103	41	M27	UCIP319	IP319	
100	150	430	85	360	29	45	295	108	42	M27	UCIP320	IP320	
110	170	490	100	410	32	50	335	117	46	M30	UCIP322	IP322	
120	170	510	100	430	32	50	345	126	51	M30	UCIP324	IP324	
130	200	550	110	470	32	50	390	135	54	M30	UCIP326	IP326	
140	200	590	110	500	35	55	400	145	59	M33	UCIP328	IP328	

[Remarks] 1) Applicable sizes of grease nipples are shown below.
A-1/4-28UNF..... 208~210
A-PT 1/8 ..... 211~213, 313~328

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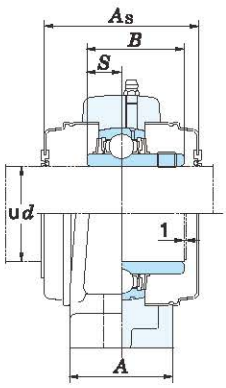
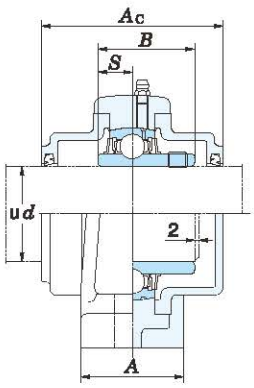
Pressed steel covers



Cast iron covers



Tolerances for housing

unit : mm

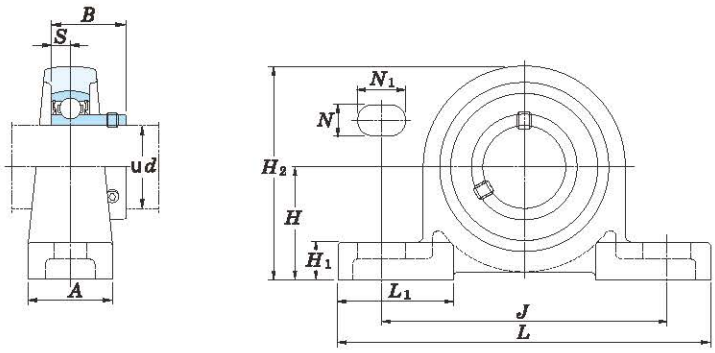
housing No.		3_{Hs}	X
IP208~ IP210		±0.15	1
IP211~ IP213	IP313~ IP318	±0.2	1.4
	IP319~ IP328	±0.3	

3_{Hs} : deviation of distance from mounting base to centre of spherical bearing seating.
X : positional tolerance of bolt hole.

No.	Applicable bearing Basic load ratings (kN) C_r	C_{0r}	Factor f_0	Unit No. with covers Pressed steel covers Open ends	Closed end	Cast iron covers Open ends	Closed end	Cover dimensions (mm) A_s	A_c	(Refer.) Unit mass (kg) Pressed steel covers	Cast iron covers
UC208	29.1	17.8	14.0	UCIP208C	UCIP208CD	UCIP208FC	UCIP208FCD	68	86	3.4	4.2
UC209	32.7	20.3	14.0	UCIP209C	UCIP209CD	UCIP209FC	UCIP209FCD	68	88	3.9	4.7
UC210	35.1	23.3	14.4	UCIP210C	UCIP210CD	UCIP210FC	UCIP210FCD	73	97	4.8	5.8
UC211	43.4	29.4	14.4	UCIP211C	UCIP211CD	UCIP211FC	UCIP211FCD	75	99	5.3	6.3
UC212	52.4	36.2	14.4	UCIP212C	UCIP212CD	UCIP212FC	UCIP212FCD	88	114	7.2	8.7
UC213	57.2	40.1	14.4	UCIP213C	UCIP213CD	UCIP213FC	UCIP213FCD	88	114	8.8	10.5
UC313	92.7	59.9	13.2	—	—	UCIP313C	UCIP313CD	—	122	13.4	15.5
UC314	104	68.2	13.2	—	—	UCIP314C	UCIP314CD	—	124	15.3	17.6
UC315	113	77.2	13.2	—	—	UCIP315C	UCIP315CD	—	134	17.6	20.1
UC316	123	86.7	13.3	—	—	UCIP316C	UCIP316CD	—	138	20.3	23.2
UC317	133	96.8	13.3	—	—	UCIP317C	UCIP317CD	—	146	25.9	29.2
UC318	143	107	13.3	—	—	UCIP318C	UCIP318CD	—	150	28.6	32.4
UC319	153	119	13.3	—	—	UCIP319C	UCIP319CD	—	162	31.7	36.0
UC320	173	141	13.2	—	—	UCIP320C	UCIP320CD	—	174	36.9	42.5
UC322	205	180	13.2	—	—	UCIP322C	UCIP322CD	—	188	52.4	59.2
UC324	207	185	13.5	—	—	UCIP324C	UCIP324CD	—	196	58.7	68.2
UC326	229	214	13.6	—	—	UCIP326C	UCIP326CD	—	214	76.2	88.3
UC328	253	246	13.6	—	—	UCIP328C	UCIP328CD	—	222	87.0	102

2) Bearings with triple-lip seals are indicated by L3 after the bearing and unit number. (UCIP208JL3, UC208L3)
3) For more detailed information, refer to ball bearing for unit specification tables.

Ball bearing units
light duty pillow block type
BLP (with set screws)
d 12 ~ 40 mm



Shaft dia. (mm)	Dimensions (mm)											Bolt size	Unit No.	
d	H ±0.15	L	A	J	N	N_1	H_1	H_2	L_1	B	S			
12	30.2	114	25	87	11	16	12	57	35	22	6	M10	BLP201	
15	30.2	114	25	87	11	16	12	57	35	22	6	M10	BLP202	
17	30.2	114	25	87	11	16	12	57	35	22	6	M10	BLP203	
20	33.3	125	27	97	11	16	13	65	38	25	7	M10	BLP204	
25	36.5	130	29	100	11	16	13	71	39	27	7.5	M10	BLP205	
30	42.9	156	33	120	14	21	14	83	47	30	8	M12	BLP206	
35	47.6	165	35	127	14	21	16	93	50	32	8.5	M12	BLP207	
40	50.8	184	37	140	14	22	18	102	55	34	9	M12	BLP208	

[Remarks] 1) The radial loading on housing shoud not exceed 50% of the basic load rating.(C0)
2) For more detailed information, refer to ball bearing for unit specification tables.

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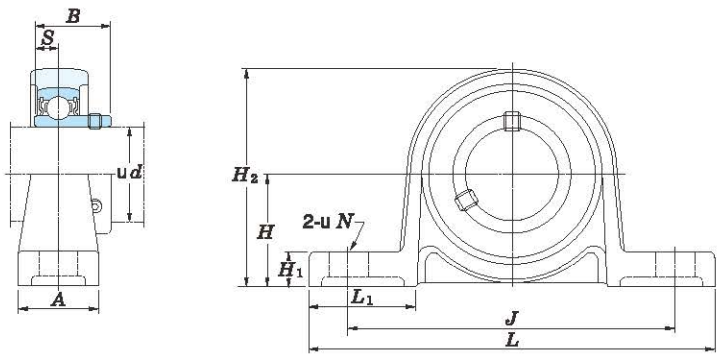
	Housing No.	Applicable bearing No.	Basic load ratings (kN) C_r	C_{0r}	Factor f_0	(Refer.) Unit mass (kg)
	LP203	SB201	9.55	4.80	13.2	0.36
	LP203	SB202	9.55	4.80	13.2	0.36
	LP203	SB203	9.55	4.80	13.2	0.36
	LP204	SB204	12.8	6.65	13.2	0.51
	LP205	SB205	14.0	7.85	13.9	0.57
	LP206	SB206	19.5	11.3	13.9	0.69
	LP207	SB207	25.7	15.4	13.9	0.94
	LP208	SB208	29.1	17.8	14.0	1.8

Ball bearing units
"compact" series pillow block type
UP (with set screws)
d 10 ~ 30 mm



Shaft dia. (mm) d	Dimensions (mm) H ±0.15	L	A	J	N ±0.2	H_1	H_2	L_1	B	S	Bolt size	Unit No.	
10	18	67	16	53	7	6	35	18	15	5	M6	UP000	
12	19	71	16	56	7	6	38	19	15	5	M6	UP001	
15	22	80	16	63	7	7	43	21	16.5	5.5	M6	UP002	
17	24	85	18	67	7	7	47	21	17.5	6	M6	UP003	
20	28	100	20	80	10	9	55	25	21	7	M8	UP004	
25	32	112	20	90	10	10	62	28	22	7	M8	UP005	
30	36	132	26	106	13	11	70	34	24.5	7.5	M10	UP006	

[Remarks] 1) Housing is made from special light alloy.
2) For more detailed information, refer to ball bearing for unit specification tables.

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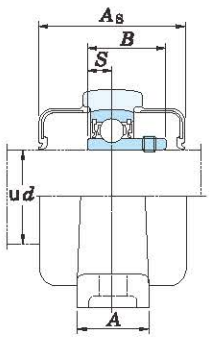
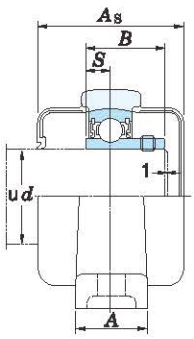
Open ends type



Closed end type



Tolerance for housing

unit : mm

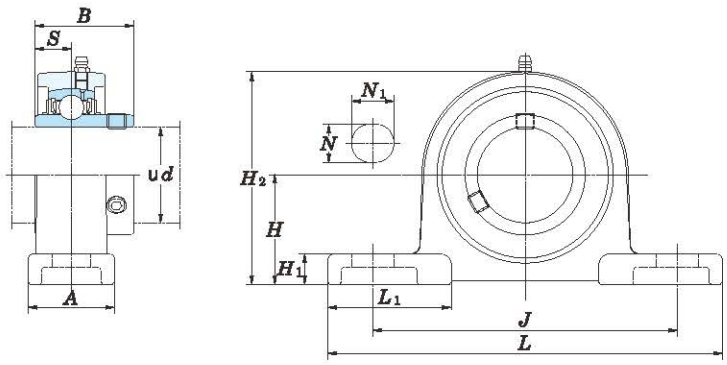
housing No.	X
P000~P006	0.6

X : positional tolerance of bolt hole.

Housing No.	No.	Applicable bearing Basic load ratings (kN) C_r	C_{0r}	Factor f_0	Unit No. with covers Open ends	Closed end	Cover dimension (mm) A_s	(Refer.) Unit mass (kg)
P000	SU000	4.55	1.95	12.3	UP000C	UP000CD	29	0.070
P001	SU001	5.10	2.40	13.2	UP001C	UP001CD	29	0.090
P002	SU002	5.60	2.85	13.9	UP002C	UP002CD	31	0.11
P003	SU003	6.00	3.25	14.4	UP003C	UP003CD	33	0.15
P004	SU004	9.40	5.05	13.9	UP004C	UP004CD	38	0.23
P005	SU005	10.1	5.85	14.5	UP005C	UP005CD	40	0.28
P006	SU006	13.2	8.25	14.7	UP006C	UP006CD	44	0.42

L

Ball bearing units
stainless-series pillow block type
UCSP-H1S6 (with set screws)
d　12 ~ 50 mm



Shaft dia. (mm)	Dimensions (mm)											Bolt size	Unit No.	Housing No.
d	H ±0.15	L	A	J	N	N_1	H_1	H_2	L_1	B	S			
12	30.2	127	30	95	13	18	11	56	42	27.4	11.5	M10	UCSP201XH1S6	SP203H1
15	30.2	127	30	95	13	18	11	56	42	27.4	11.5	M10	UCSP202XH1S6	SP203H1
17	30.2	127	30	95	13	18	11	56	42	27.4	11.5	M10	UCSP203XH1S6	SP203H1
20	33.3	127	30	95	13	18	11	63	42	31	12.7	M10	UCSP204H1S6	SP204H1
25	36.5	140	30	105	13	19	12	69	46	34.1	14.3	M10	UCSP205H1S6	SP205H1
30	42.9	165	36	121	17	21	13	81	54	38.1	15.9	M14	UCSP206H1S6	SP206H1
35	47.6	167	38	127	17	21	14	91	51	42.9	17.5	M14	UCSP207H1S6	SP207H1
40	49.2	184	40	137	17	21	14	97	60	49.2	19	M14	UCSP208H1S6	SP208H1
45	54	190	40	146	17	21	15	104	61	49.2	19	M14	UCSP209H1S6	SP209H1
50	57.2	206	45	159	20	22	16	111	65	51.6	19	M16	UCSP210H1S6	SP210H1

[Remarks]　1) Applicable size of grease nipples is A-1/4-28UNF.

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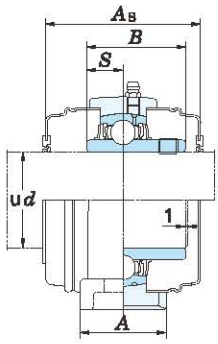
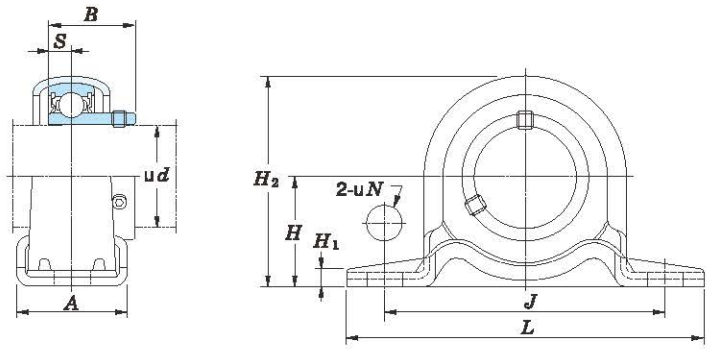
Pressed stainless steel covers



No.	Applicable bearing Basic load ratings (kN) C_r	C_{0r}	Factor f_0	Unit No. with covers Open ends	Closed end	Cover dimension (mm) A_s	(Refer.) Unit mass (kg) Pressed steel covers
UC201XS6	8.15	3.85	13.2	—	—	—	0.42
UC202XS6	8.15	3.85	13.2	—	—	—	0.42
UC203XS6	8.15	3.85	13.2	—	—	—	0.42
UC204S6	10.9	5.35	13.2	UCSP204H1CS6	UCSP204H1CDS6	45	0.54
UC205S6	11.9	6.30	13.9	UCSP205H1CS6	UCSP205H1CDS6	49	0.70
UC206S6	16.5	9.05	13.9	UCSP206H1CS6	UCSP206H1CDS6	53	1.0
UC207S6	21.8	12.3	13.9	UCSP207H1CS6	UCSP207H1CDS6	60	1.4
UC208S6	24.8	14.3	14.0	UCSP208H1CS6	UCSP208H1CDS6	69	1.7
UC209S6	27.8	16.2	14.0	UCSP209H1CS6	UCSP209H1CDS6	69	1.8
UC210S6	29.8	18.6	14.4	UCSP210H1CS6	UCSP210H1CDS6	74	2.3

2) For more detailed information, refer to ball bearing for unit specification tables.

Ball bearing units
pressed steel pillow block type
SBPP
d　12 ~ 35 mm



Shaft dia. (mm) d	Dimensions (mm) H	L	A	J ±0.4	N ±0.5	H_1	H_2	B	S	Bolt size	Unit No.	Housing No.	
12	22.2	86	25	68	9.5	3.2	43.8	22	6	M8	SBPP201	PP203F	
15	22.2	86	25	68	9.5	3.2	43.8	22	6	M8	SBPP202	PP203F	
17	22.2	86	25	68	9.5	3.2	43.8	22	6	M8	SBPP203	PP203F	
20	25.4	98	32	76	9.5	3.2	50.5	25	7	M8	SBPP204	PP204F	
25	28.6	108	32	86	11.5	4	56.6	27	7.5	M10	SBPP205	PP205F	
30	33.3	117	38	95	11.5	4	66.3	30	8	M10	SBPP206	PP206F	
35	39.7	129	41	106	11.5	4.6	78	32	8.5	M10	SBPP207	PP207F	

[Remark]　1) For more detailed information, refer to ball bearing for unit specification tables.

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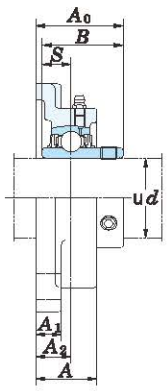
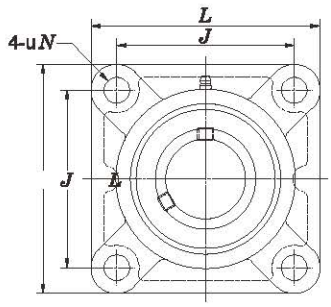
	Applicable bearing No.	Basic load ratings (kN) C_r	C_{0r}	Factor f_0	(Refer.) Unit mass (kg)
	SB201	9.55	4.80	13.2	0.16
	SB202	9.55	4.80	13.2	0.16
	SB203	9.55	4.80	13.2	0.16
	SB204	12.8	6.65	13.2	0.23
	SB205	14.0	7.85	13.9	0.28
	SB206	19.5	11.3	13.9	0.47
	SB207	25.7	15.4	13.9	0.67

L

Ball bearing units square-flanged type UCF (with set screws)

d 12 ~ (55) mm





Shaft dia. (mm)	Dimensions (mm)									Bolt size	Unit No.	Housing No.	
d	L	A	J	N	A_1	A_2	A_0	B	S				
12	86	25.5	64	12	11	15	33.3	31	12.7	M10	UCF201	F204	
15	86	25.5	64	12	11	15	33.3	31	12.7	M10	UCF202	F204	
17	86	25.5	64	12	11	15	33.3	31	12.7	M10	UCF203	F204	
20	86	25.5	64	12	11	15	33.3	31	12.7	M10	UCF204	F204	
25	95	27	70	12	13	16	35.8	34.1	14.3	M10	UCF205	F205	
	108	30	83	12	13	18	40.2	38.1	15.9	M10	UCFX05	FX05	
	110	29	80	16	13	16	39	38	15	M14	UCF305	F305	
30	108	31	83	12	13	18	40.2	38.1	15.9	M10	UCF206	F206	
	117	34	92	16	14	19	44.4	42.9	17.5	M14	UCFX06	FX06	
	125	32	95	16	15	18	44	43	17	M14	UCF306	F306	
35	117	34	92	14	15	19	44.4	42.9	17.5	M12	UCF207	F207	
	130	38	102	16	14	21	51.2	49.2	19	M14	UCFX07	FX07	
	135	36	100	19	16	20	49	48	19	M16	UCF307	F307	
40	130	36	102	16	15	21	51.2	49.2	19	M14	UCF208	F208	
	137	40	105	19	14	22	52.2	49.2	19	M16	UCFX08	FX08	
	150	40	112	19	17	23	56	52	19	M16	UCF308	F308	
45	137	38	105	16	16	22	52.2	49.2	19	M14	UCF209	F209	
	143	40	111	19	14	23	55.6	51.6	19	M16	UCFX09	FX09	
	160	44	125	19	18	25	60	57	22	M16	UCF309	F309	
50	143	40	111	16	16	22	54.6	51.6	19	M14	UCF210	F210	
	162	44	130	19	20	26	59.4	55.6	22.2	M16	UCFX10	FX10	
	175	48	132	23	19	28	67	61	22	M20	UCF310	F310	
55	162	43	130	19	18	25	58.4	55.6	22.2	M16	UCF211	F211	

[Remarks] 1) Applicable sizes of grease nipples are shown below.
A-1/4-28UNF..... 201~210, X05~X09, 305~308
A-PT 1/8 ..... 211~218, X10~X20, 309~328

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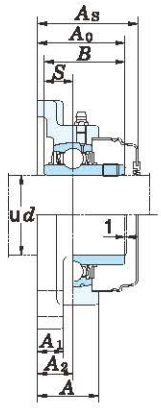
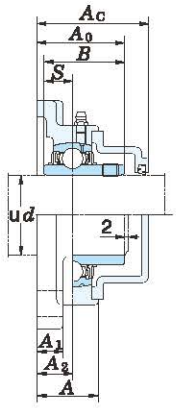
Pressed steel cover



Cast iron cover



Tolerances for housing

unit : mm

housing No.			3_{A2s}	X
F204~F210	FX05~FX10	F305~F310	±0.5	0.7
F211~F218	FX11~FX20	F311~F328	±0.8	1

3_{A2s} : deviation of distance from mounting face to centre of spherical bearing seating.
X : positional tolerance of bolt hole.

unit : mm

housing No.			3_{Ns}
F204~F218	FX05~FX18	F305~F315	±0.2
	FX20	F316~F328	±0.3

3_{Ns} : deviation of bolt hole diameter.

No.	Applicable bearing Basic load ratings (kN) C_r	C_{0r}	Factor f_0	Unit No. with covers Pressed steel covers Open ends	Pressed steel covers Closed end	Cast iron covers Open ends	Cast iron covers Closed end	Cover dimensions (mm) A_s	A_c	(Refer.) Unit mass (kg) Pressed steel covers	Cast iron covers
UC201	12.8	6.65	13.2	UCF201C	UCF201D	—	—	37	—	0.64	—
UC202	12.8	6.65	13.2	UCF202C	UCF202D	—	—	37	—	0.62	—
UC203	12.8	6.65	13.2	UCF203C	UCF203D	—	—	37	—	0.61	—
UC204	12.8	6.65	13.2	UCF204C	UCF204D	UCF204FC	UCF204FD	37	46	0.59	0.74
UC205	14.0	7.85	13.9	UCF205C	UCF205D	UCF205FC	UCF205FD	40	49	0.83	1.0
UCX05	19.5	11.3	13.9	UCFX05C	UCFX05D	—	—	44	—	1.2	—
UC305	21.2	10.9	12.6	—	—	UCF305C	UCF305D	—	54	1.3	1.6
UC206	19.5	11.3	13.9	UCF206C	UCF206D	UCF206FC	UCF206FD	44	53	1.1	1.4
UCX06	25.7	15.4	13.9	UCFX06C	UCFX06D	—	—	49	—	1.6	—
UC306	26.7	15.0	13.3	—	—	UCF306C	UCF306D	—	59	1.9	2.2
UC207	25.7	15.4	13.9	UCF207C	UCF207D	UCF207FC	UCF207FD	49	58	1.5	1.9
UCX07	29.1	17.8	14.0	UCFX07C	UCFX07D	—	—	55	—	2.0	—
UC307	33.4	19.3	13.2	—	—	UCF307C	UCF307D	—	64	2.3	2.7
UC208	29.1	17.8	14.0	UCF208C	UCF208D	UCF208FC	UCF208FD	55	64	1.9	2.3
UCX08	32.7	20.3	14.0	UCFX08C	UCFX08D	—	—	56	—	2.4	—
UC308	40.7	24.0	13.2	—	—	UCF308C	UCF308D	—	71	3.1	3.6
UC209	32.7	20.3	14.0	UCF209C	UCF209D	UCF209FC	UCF209FD	56	66	2.2	2.6
UCX09	35.1	23.3	14.4	UCFX09C	UCFX09D	—	—	60	—	2.7	—
UC309	48.9	29.5	13.3	—	—	UCF309C	UCF309D	—	76	4.0	4.6
UC210	35.1	23.3	14.4	UCF210C	UCF210D	UCF210FC	UCF210FD	59	70.5	2.5	3.0
UCX10	43.4	29.4	14.4	UCFX10C	UCFX10D	—	—	64	—	3.7	—
UC310	62.0	38.3	13.2	—	—	UCF310C	UCF310D	—	83	5.1	5.9
UC211	43.4	29.4	14.4	UCF211C	UCF211D	UCF211FC	UCF211FD	63	74.5	3.4	4.0

2) For bearings with double- or triple-lip seals, unit and bearing number are suffixed by L2 or L3. (UCF206JL3, UC206L3)
3) For more detailed information, refer to ball bearing for unit specification tables.

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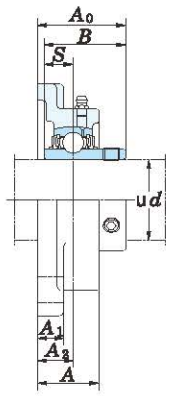
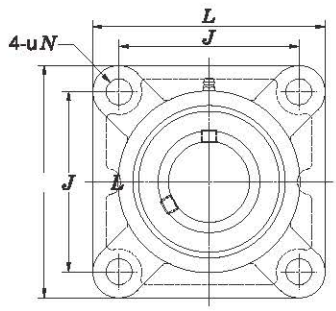
Ball bearing units square-flanged type UCF (with set screws)

d (55) ~ 95 mm





Shaft dia. (mm)	Dimensions (mm)									Bolt size	Unit No.	Housing No.
d	L	A	J	N	A_1	A_2	A_0	B	S			
55	175	49	143	19	20	29	68.7	65.1	25.4	M16	UCFX11	FX11
	185	52	140	23	20	30	71	66	25	M20	UCF311	F311
60	175	48	143	19	18	29	68.7	65.1	25.4	M16	UCF212	F212
	187	59	149	19	21	34	73.7	65.1	25.4	M16	UCFX12	FX12
	195	56	150	23	22	33	78	71	26	M20	UCF312	F312
65	187	50	149	19	22	30	69.7	65.1	25.4	M16	UCF213	F213
	187	59	149	19	21	34	78.4	74.6	30.2	M16	UCFX13	FX13
	208	58	166	23	22	33	78	75	30	M20	UCF313	F313
70	193	54	152	19	22	31	75.4	74.6	30.2	M16	UCF214	F214
	197	60	152	23	22	37	81.5	77.8	33.3	M20	UCFX14	FX14
	226	61	178	25	25	36	81	78	33	M22	UCF314	F314
75	200	56	159	19	22	34	78.5	77.8	33.3	M16	UCF215	F215
	197	68	152	23	24	40	89.3	82.6	33.3	M20	UCFX15	FX15
	236	66	184	25	25	39	89	82	32	M22	UCF315	F315
80	208	58	165	23	22	34	83.3	82.6	33.3	M20	UCF216	F216
	214	70	171	23	24	40	91.6	85.7	34.1	M20	UCFX16	FX16
	250	68	196	31	27	38	90	86	34	M27	UCF316	F316
85	220	63	175	23	24	36	87.6	85.7	34.1	M20	UCF217	F217
	214	70	171	23	24	40	96.3	96	39.7	M20	UCFX17	FX17
	260	74	204	31	27	44	100	96	40	M27	UCF317	F317
90	235	68	187	23	25	40	96.3	96	39.7	M20	UCF218	F218
	214	76	171	23	24	45	106.1	104	42.9	M20	UCFX18	FX18
	280	76	216	35	30	44	100	96	40	M30	UCF318	F318
95	290	94	228	35	30	59	121	103	41	M30	UCF319	F319

[Remarks] 1) Applicable sizes of grease nipples are shown below.
A-1/4-28UNF..... 201~210, X05~X09, 305~308
A-PT 1/8 ..... 211~218, X10~X20, 309~328

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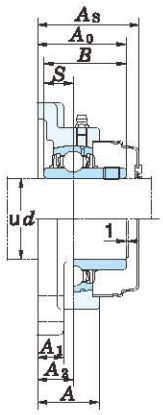
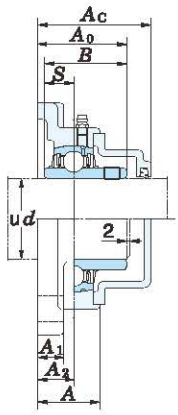
Pressed steel cover



Cast iron cover



Tolerances for housing

unit : mm

housing No.			3_{A2s}	X
F204~ F210	FX05~ FX10	F305~ F310	±0.5	0.7
F211~ F218	FX11~ FX20	F311~ F328	±0.8	1

3_{A2s} : deviation of distance from mounting face to centre of spherical bearing seating.
X : positional tolerance of bolt hole.

unit : mm

housing No.			3_{Ns}
F204~ F218	FX05~ FX18	F305~ F315	±0.2
	FX20	F316~ F328	±0.3

3_{Ns} : deviation of bolt hole diameter.

No.	Applicable bearing Basic load ratings (kN) C_r	C_{0r}	Factor f_0	Unit No. with covers Pressed steel covers Open ends	Closed end	Cast iron covers Open ends	Closed end	Cover dimensions (mm) A_s	A_c	(Refer.) Unit mass (kg) Pressed steel covers	Cast iron covers
UCX11	52.4	36.2	14.4	UCFX11C	UCFX11D	—	—	73	—	4.9	—
UC311	71.6	45.0	13.2	—	—	UCF311C	UCF311D	—	87	5.6	6.5
UC212	52.4	36.2	14.4	UCF212C	UCF212D	UCF212FC	UCF212FD	73	86	4.2	5.0
UCX12	57.2	40.1	14.4	UCFX12C	UCFX12D	—	—	78	—	5.7	—
UC312	81.9	52.2	13.2	—	—	UCF312C	UCF312D	—	95	6.9	8.1
UC213	57.2	40.1	14.4	UCF213C	UCF213D	UCF213FC	UCF213FD	74	87	5.2	6.0
UCX13	62.2	44.1	14.5	UCFX13C	UCFX13D	—	—	83	—	6.3	—
UC313	92.7	59.9	13.2	—	—	UCF313C	UCF313D	—	94	7.8	8.9
UC214	62.2	44.1	14.5	UCF214C	UCF214D	UCF214FC	UCF214FD	80	93	5.9	6.8
UCX14	67.4	48.3	14.5	UCFX14C	UCFX14D	—	—	86	—	7.0	—
UC314	104	68.2	13.2	—	—	UCF314C	UCF314D	—	98	10.1	11.2
UC215	67.4	48.3	14.5	UCF215C	UCF215D	UCF215FC	UCF215FD	83	96	6.4	7.4
UCX15	72.7	53.0	14.6	UCFX15C	UCFX15D	—	—	94	—	8.4	—
UC315	113	77.2	13.2	—	—	UCF315C	UCF315D	—	106	11.6	12.9
UC216	72.7	53.0	14.6	UCF216C	UCF216D	UCF216FC	UCF216FD	88	103	7.3	8.5
UCX16	84.0	61.9	14.5	UCFX16C	UCFX16D	—	—	96	—	9.4	—
UC316	123	86.7	13.3	—	—	UCF316C	UCF316D	—	107	12.8	14.2
UC217	84.0	61.9	14.5	UCF217C	UCF217D	UCF217FC	UCF217FD	92	107	8.9	10.3
UCX17	96.1	71.5	14.5	UCFX17C	UCFX17D	—	—	101	—	10.8	—
UC317	133	96.8	13.3	—	—	UCF317C	UCF317D	—	117	15.3	16.9
UC218	96.1	71.5	14.5	UCF218C	UCF218D	UCF218FC	UCF218FD	101	116	11.4	12.9
UCX18	109	81.9	14.4	—	—	UCFX18C	UCFX18D	—	124	11.9	13.6
UC318	143	107	13.3	—	—	UCF318C	UCF318D	—	119	18.9	20.8
UC319	153	119	13.3	—	—	UCF319C	UCF319D	—	140	21.6	23.8

2) For bearings with double- or triple-lip seals, unit and bearing number are suffixed by L2 or L3. (UCF206JL3, UC206L3)
3) For more detailed information, refer to ball bearing for unit specification tables.

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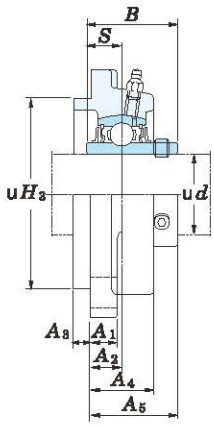
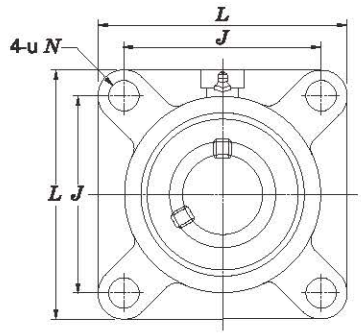
Ball bearing units
square-flanged type with spigot joint
UCFS (with set screws)

d 25 ~ 105 mm





Shaft dia. (mm)	Dimensions (mm)											Bolt size	Unit No.	Housing No.
d	L	H_3	J	N	A_1	A_2	A_3	A_4	A_5	B	S			
25	110	80	80	16	13	9	7	22	32	38	15	M14	UCFS305	FS305
30	125	90	95	16	15	10	8	24	36	43	17	M14	UCFS306	FS306
35	135	100	100	19	16	11	9	27	40	48	19	M16	UCFS307	FS307
40	150	115	112	19	17	13	10	30	46	52	19	M16	UCFS308	FS308
45	160	125	125	19	18	14	11	33	49	57	22	M16	UCFS309	FS309
50	175	140	132	23	19	16	12	36	55	61	22	M20	UCFS310	FS310
55	185	150	140	23	20	17	13	39	58	66	25	M20	UCFS311	FS311
60	195	160	150	23	22	19	14	42	64	71	26	M20	UCFS312	FS312
65	208	175	166	23	22	15	18	40	60	75	30	M20	UCFS313	FS313
70	226	185	178	25	25	18	18	43	63	78	33	M22	UCFS314	FS314
75	236	200	184	25	25	21	18	48	71	82	32	M22	UCFS315	FS315
80	250	210	196	31	27	18	20	48	70	86	34	M27	UCFS316	FS316
85	260	220	204	31	27	24	20	54	80	96	40	M27	UCFS317	FS317
90	280	240	216	35	30	24	20	56	80	96	40	M30	UCFS318	FS318
95	290	250	228	35	30	39	20	74	101	103	41	M30	UCFS319	FS319
100	310	260	242	38	32	39	20	74	105	108	42	M33	UCFS320	FS320
105	310	260	242	38	32	39	20	74	107	112	44	M33	UCFS321	FS321

[Remarks] 1) Applicable sizes of grease nipples are shown below.
A-1/4-28UNF..... 305~308
A-PT 1/8 ..... 309~328

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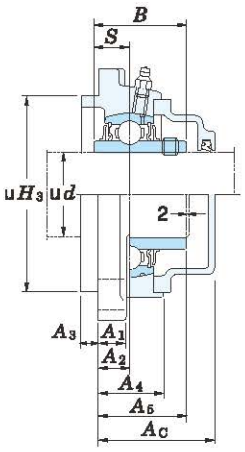
Cast iron cover



Tolerances for housing

unit : mm

housing No.	3H_{3s}	3A_{2s}	X	Y
FS305	0 -0.046	±0.5	0.7	0.2
FS306~ FS308	0 -0.054			
FS309~ FS310	0 -0.063			
FS311~ FS313		±0.8	1	0.3 ~FS318
FS314~ FS319	0 -0.072			FS319~ 0.4
FS320~ FS322	0 -0.081			
FS324~ FS328	0 -0.089			

unit : mm

housing No.	3N_s
FS305~315	±0.2
FS316~328	±0.3

3N_s : deviation of bolt hole diameter.

3H_{3s} : deviation of spigot joint outside diameter.
3A_{2s} : deviation of distance from mounting face to centre of spherical bearing seating.
X : positional tolerance of bolt hole.
Y : circumferential runout tolerance of spigot joint in respect to axial line of spherical bearing seating.

No.	Applicable bearing Basic load ratings (kN) C_r	C_{0r}	Factor f_0	Unit No. with covers Open ends	Closed end	Cover dimensions (mm) A_c	(Refer.) Unit mass (kg) No cover	Cast iron covers
UC305	21.2	10.9	12.6	UCFS305C	UCFS305D	47	1.4	1.7
UC306	26.7	15.0	13.3	UCFS306C	UCFS306D	51	1.9	2.2
UC307	33.4	19.3	13.2	UCFS307C	UCFS307D	55	2.3	2.7
UC308	40.7	24.0	13.2	UCFS308C	UCFS308D	61	3.4	3.9
UC309	48.9	29.5	13.3	UCFS309C	UCFS309D	65	4.4	5.0
UC310	62.0	38.3	13.2	UCFS310C	UCFS310D	71	5.3	6.1
UC311	71.6	45.0	13.2	UCFS311C	UCFS311D	74	6.1	7.0
UC312	81.9	52.2	13.2	UCFS312C	UCFS312D	81	7.4	8.6
UC313	92.7	59.9	13.2	UCFS313C	UCFS313D	76	8.8	9.9
UC314	104	68.2	13.2	UCFS314C	UCFS314D	80	11.2	12.3
UC315	113	77.2	13.2	UCFS315C	UCFS315D	88	13.7	15.0
UC316	123	86.7	13.3	UCFS316C	UCFS316D	87	15.1	16.5
UC317	133	96.8	13.3	UCFS317C	UCFS317D	97	17.3	18.9
UC318	143	107	13.3	UCFS318C	UCFS318D	99	21.3	23.2
UC319	153	119	13.3	UCFS319C	UCFS319D	120	24.5	26.7
UC320	173	141	13.2	UCFS320C	UCFS320D	126	29.5	32.3
UC321	184	153	13.2	UCFS321C	UCFS321D	128	32.7	35.7

2) Bearings with triple-lip seals are indicated by L3 after the bearing and unit number. (UCFS307JL3, UC307L3)
3) For more detailed information, refer to ball bearing for unit specification tables.

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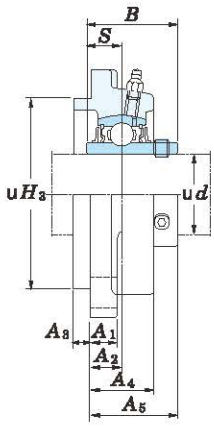
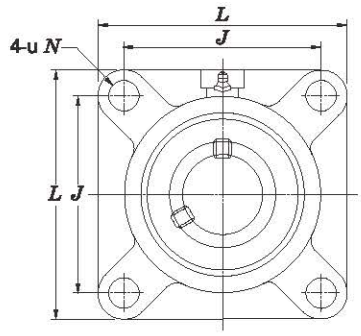
Ball bearing units
square-flanged type with spigot joint
UCFS (with set screws)

d 25 ~ 105 mm





Shaft dia. (mm)	Dimensions (mm)											Bolt size	Unit No.	Housing No.
d	L	H_3	J	N	A_1	A_2	A_3	A_4	A_5	B	S			
25	110	80	80	16	13	9	7	22	32	38	15	M14	UCFS305	FS305
30	125	90	95	16	15	10	8	24	36	43	17	M14	UCFS306	FS306
35	135	100	100	19	16	11	9	27	40	48	19	M16	UCFS307	FS307
40	150	115	112	19	17	13	10	30	46	52	19	M16	UCFS308	FS308
45	160	125	125	19	18	14	11	33	49	57	22	M16	UCFS309	FS309
50	175	140	132	23	19	16	12	36	55	61	22	M20	UCFS310	FS310
55	185	150	140	23	20	17	13	39	58	66	25	M20	UCFS311	FS311
60	195	160	150	23	22	19	14	42	64	71	26	M20	UCFS312	FS312
65	208	175	166	23	22	15	18	40	60	75	30	M20	UCFS313	FS313
70	226	185	178	25	25	18	18	43	63	78	33	M22	UCFS314	FS314
75	236	200	184	25	25	21	18	48	71	82	32	M22	UCFS315	FS315
80	250	210	196	31	27	18	20	48	70	86	34	M27	UCFS316	FS316
85	260	220	204	31	27	24	20	54	80	96	40	M27	UCFS317	FS317
90	280	240	216	35	30	24	20	56	80	96	40	M30	UCFS318	FS318
95	290	250	228	35	30	39	20	74	101	103	41	M30	UCFS319	FS319
100	310	260	242	38	32	39	20	74	105	108	42	M33	UCFS320	FS320
105	310	260	242	38	32	39	20	74	107	112	44	M33	UCFS321	FS321

[Remarks] 1) Applicable sizes of grease nipples are shown below.
A-1/4-28UNF..... 305~308
A-PT 1/8 ..... 309~328

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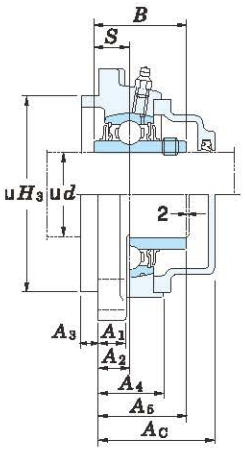
Cast iron cover



Tolerances for housing

unit : mm

housing No.	3_{H3s}	3_{A2s}	X	Y
FS305	0 -0.046	±0.5	0.7	0.2
FS306~ FS308	0 -0.054			
FS309~ FS310	0 -0.063			
FS311~ FS313		±0.8	1	0.3 ~FS318
FS314~ FS319	0 -0.072			FS319~ 0.4
FS320~ FS322	0 -0.081			
FS324~ FS328	0 -0.089			

unit : mm

housing No.	3_{Ns}
FS305~315	±0.2
FS316~328	±0.3

3_{Ns} : deviation of bolt hole diameter.

3_{H3s} : deviation of spigot joint outside diameter.
3_{A2s} : deviation of distance from mounting face to centre of spherical bearing seating.
X : positional tolerance of bolt hole.
Y : circumferential runout tolerance of spigot joint in respect to axial line of spherical bearing seating.

No.	Applicable bearing Basic load ratings (kN) C_r	C_{0r}	Factor f_0	Unit No. with covers Open ends	Closed end	Cover dimensions (mm) A_c	(Refer.) Unit mass (kg) No cover	Cast iron covers
UC305	21.2	10.9	12.6	UCFS305C	UCFS305D	47	1.4	1.7
UC306	26.7	15.0	13.3	UCFS306C	UCFS306D	51	1.9	2.2
UC307	33.4	19.3	13.2	UCFS307C	UCFS307D	55	2.3	2.7
UC308	40.7	24.0	13.2	UCFS308C	UCFS308D	61	3.4	3.9
UC309	48.9	29.5	13.3	UCFS309C	UCFS309D	65	4.4	5.0
UC310	62.0	38.3	13.2	UCFS310C	UCFS310D	71	5.3	6.1
UC311	71.6	45.0	13.2	UCFS311C	UCFS311D	74	6.1	7.0
UC312	81.9	52.2	13.2	UCFS312C	UCFS312D	81	7.4	8.6
UC313	92.7	59.9	13.2	UCFS313C	UCFS313D	76	8.8	9.9
UC314	104	68.2	13.2	UCFS314C	UCFS314D	80	11.2	12.3
UC315	113	77.2	13.2	UCFS315C	UCFS315D	88	13.7	15.0
UC316	123	86.7	13.3	UCFS316C	UCFS316D	87	15.1	16.5
UC317	133	96.8	13.3	UCFS317C	UCFS317D	97	17.3	18.9
UC318	143	107	13.3	UCFS318C	UCFS318D	99	21.3	23.2
UC319	153	119	13.3	UCFS319C	UCFS319D	120	24.5	26.7
UC320	173	141	13.2	UCFS320C	UCFS320D	126	29.5	32.3
UC321	184	153	13.2	UCFS321C	UCFS321D	128	32.7	35.7

2) Bearings with triple-lip seals are indicated by L3 after the bearing and unit number. (UCFS307JL3, UC307L3)
3) For more detailed information, refer to ball bearing for unit specification tables.

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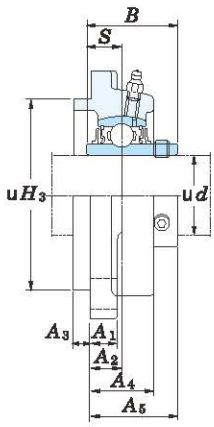
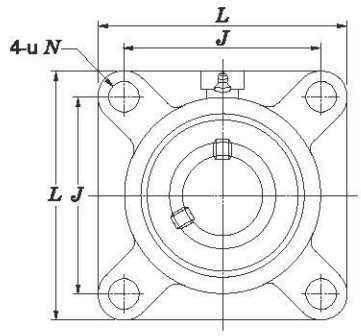
Ball bearing units
square-flanged type with spigot joint
UCFS (with set screws)

d　110 ～140 mm





L

Shaft dia. (mm) d	Dimensions (mm) L	H_3	J	N	A_1	A_2	A_3	A_4	A_5	B	S	Bolt size	Unit No.	Housing No.	
110	340	300	266	41	35	35	25	71	106	117	46	M36	UCFS322	FS322	
120	370	330	290	41	40	35	30	80	110	126	51	M36	UCFS324	FS324	
130	410	360	320	41	45	35	30	85	116	135	54	M36	UCFS326	FS326	
140	450	400	350	41	55	45	30	95	131	145	59	M36	UCFS328	FS328	

[Remarks]　1)　Applicable sizes of grease nipples are shown below.
A-1/4-28UNF..... 305~308
A-PT 1/8 ..... 309~328

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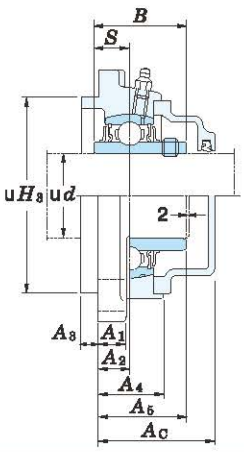
Cast iron cover



Tolerances for housing

unit : mm

housing No.	3H3s	3A2s	X	Y
FS305	0 -0.046	±0.5	0.7	0.2
FS306~ FS308	0 -0.054			
FS309~ FS310	0 -0.063			
FS311~ FS313		±0.8	1	0.3 ~FS318
FS314~ FS319	0 -0.072			FS319~ 0.4
FS320~ FS322	0 -0.081			
FS324~ FS328	0 -0.089			

unit : mm

housing No.	3Ns
FS305~315	±0.2
FS316~328	±0.3

3Ns : deviation of bolt hole diameter.

3H3s : deviation of spigot joint outside diameter.
3A2s : deviation of distance from mounting face to centre of spherical bearing seating.
X : positional tolerance of bolt hole.
Y : circumferential runout tolerance of spigot joint in respect to axial line of spherical bearing seating.

No.	Applicable bearing Basic load ratings (kN) C_r	C_{0r}	Factor f_0	Unit No. with covers Open ends	Closed end	Cover dimensions (mm) A_c	(Refer.) Unit mass (kg) No cover	Cast iron covers
UC322	205	180	13.2	UCFS322C	UCFS322D	129	39.0	42.4
UC324	207	185	13.5	UCFS324C	UCFS324D	133	50.6	55.4
UC326	229	214	13.6	UCFS326C	UCFS326D	142	67.7	73.8
UC328	253	246	13.6	UCFS328C	UCFS328D	156	94.0	102

2) Bearings with triple-lip seals are indicated by L3 after the bearing and unit number. (UCFS307JL3, UC307L3)
3) For more detailed information, refer to ball bearing for unit specification tables.

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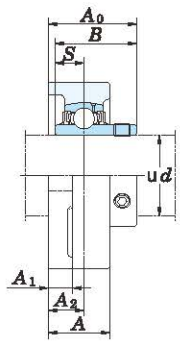
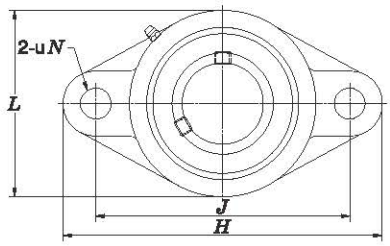
Ball bearing units
rhombic-flanged type
UCFL (with set screws)
d 12 ~ 55 mm





Shaft dia. (mm)	Dimensions (mm)										Bolt size	Unit No.	Housing No.
d	H	L	A	J	N	A_1	A_2	A_0	B	S			
12	113	60	25.5	90	12	11	15	33.3	31	12.7	M10	UCFL201	FL204
15	113	60	25.5	90	12	11	15	33.3	31	12.7	M10	UCFL202	FL204
17	113	60	25.5	90	12	11	15	33.3	31	12.7	M10	UCFL203	FL204
20	113	60	25.5	90	12	11	15	33.3	31	12.7	M10	UCFL204	FL204
25	130	68	27	99	16	13	16	35.8	34.1	14.3	M14	UCFL205	FL205
	141	83	30	117	12	13	18	40.2	38.1	15.9	M10	UCFLX05	FLX05
	150	80	29	113	19	13	16	39	38	15	M16	UCFL305	FL305
30	148	80	31	117	16	13	18	40.2	38.1	15.9	M14	UCFL206	FL206
	156	95	34	130	16	14	19	44.4	42.9	17.5	M14	UCFLX06	FLX06
	180	90	32	134	23	15	18	44	43	17	M20	UCFL306	FL306
35	161	90	34	130	16	14	19	44.4	42.9	17.5	M14	UCFL207	FL207
	171	105	38	144	16	14	21	51.2	49.2	19	M14	UCFLX07	FLX07
	185	100	36	141	23	16	20	49	48	19	M20	UCFL307	FL307
40	175	100	36	144	16	14	21	51.2	49.2	19	M14	UCFL208	FL208
	179	111	40	148	16	14	22	52.2	49.2	19	M14	UCFLX08	FLX08
	200	112	40	158	23	17	23	56	52	19	M20	UCFL308	FL308
45	188	108	38	148	19	15	22	52.2	49.2	19	M16	UCFL209	FL209
	189	116	40	157	16	14	23	55.6	51.6	19	M14	UCFLX09	FLX09
	230	125	44	177	25	18	25	60	57	22	M22	UCFL309	FL309
50	197	115	40	157	19	15	22	54.6	51.6	19	M16	UCFL210	FL210
	216	133	44	184	19	20	26	59.4	55.6	22.2	M16	UCFLX10	FLX10
	240	140	48	187	25	19	28	67	61	22	M22	UCFL310	FL310
55	224	130	43	184	19	18	25	58.4	55.6	22.2	M16	UCFL211	FL211
	250	150	52	198	25	20	30	71	66	25	M22	UCFL311	FL311

[Remarks] 1) Applicable sizes of grease nipples are shown below.
A-1/4-28UNF..... 201~210, X05~X09, 305~308
A-PT 1/8 ..... 211~217, X10~X17, 309~328

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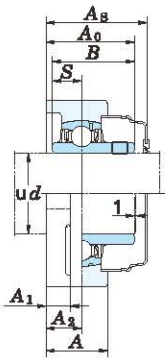
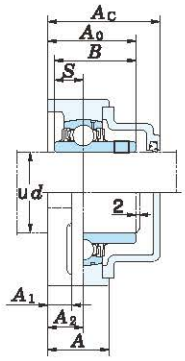
Pressed steel cover



Cast iron cover



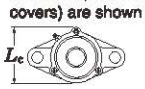
Tolerances for housing

unit : mm

housing No.			3_{Ns}
FL204~ FL218	FLX05~ FLX10	FL305~ FL311	±0.2
		FL312~ FL328	±0.3

3_{Ns} : deviation of bolt hole diameter.

FL204JE3, FL205JE3 (with cast iron covers) are shown below.



FL204JE3 L_c = 65 mm
FL205JE3 L_c = 73 mm

unit : mm

housing No.			3_{A2s}	X
FL204~ FL210	FLX05~ FLX10	FL305~ FL310	±0.5	0.7
FL211~ FL218		FL311~ FL328	±0.8	1

3_{A2s} : deviation of distance from mounting face to centre of spherical bearing seating.
X : positional tolerance of bolt hole.

No.	Applicable bearing Basic load ratings (kN) C_r	C_{0r}	Factor f_0	Unit No. with covers Pressed steel covers Open ends	Closed end	Cast iron covers Open ends	Closed end	Cover dimensions (mm) A_s	A_c	(Refer.) Unit mass (kg) Pressed steel covers	Cast iron covers
UC201	12.8	6.65	13.2	UCFL201C	UCFL201D	—	—	37	—	0.50	—
UC202	12.8	6.65	13.2	UCFL202C	UCFL202D	—	—	37	—	0.48	—
UC203	12.8	6.65	13.2	UCFL203C	UCFL203D	—	—	37	—	0.47	—
UC204	12.8	6.65	13.2	UCFL204C	UCFL204D	UCFL204FC	UCFL204FD	37	46	0.45	0.60
UC205	14.0	7.85	13.9	UCFL205C	UCFL205D	UCFL205FC	UCFL205FD	40	49	0.64	0.83
UCX05	19.5	11.3	13.9	UCFLX05C	UCFLX05D	—	—	44	—	1.1	—
UC305	21.2	10.9	12.6	—	—	UCFL305C	UCFL305D	—	54	1.1	1.4
UC206	19.5	11.3	13.9	UCFL206C	UCFL206D	UCFL206FC	UCFL206FD	44	53	0.93	1.2
UCX06	25.7	15.4	13.9	UCFLX06C	UCFLX06D	—	—	49	—	1.5	—
UC306	26.7	15.0	13.3	—	—	UCFL306C	UCFL306D	—	59	1.5	1.8
UC207	25.7	15.4	13.9	UCFL207C	UCFL207D	UCFL207FC	UCFL207FD	49	58	1.2	1.6
UCX07	29.1	17.8	14.0	UCFLX07C	UCFLX07D	—	—	55	—	1.9	—
UC307	33.4	19.3	13.2	—	—	UCFL307C	UCFL307D	—	64	1.8	2.2
UC208	29.1	17.8	14.0	UCFL208C	UCFL208D	UCFL208FC	UCFL208FD	55	64	1.6	2.0
UCX08	32.7	20.3	14.0	UCFLX08C	UCFLX08D	—	—	56	—	2.1	—
UC308	40.7	24.0	13.2	—	—	UCFL308C	UCFL308D	—	71	2.5	3.0
UC209	32.7	20.3	14.0	UCFL209C	UCFL209D	UCFL209FC	UCFL209FD	56	66	1.9	2.3
UCX09	35.1	23.3	14.4	UCFLX09C	UCFLX09D	—	—	60	—	2.4	—
UC309	48.9	29.5	13.3	—	—	UCFL309C	UCFL309D	—	76	3.5	4.1
UC210	35.1	23.3	14.4	UCFL210C	UCFL210D	UCFL210FC	UCFL210FD	59	70.5	2.2	2.7
UCX10	43.4	29.4	14.4	UCFLX10C	UCFLX10D	—	—	64	—	3.8	—
UC310	62.0	38.3	13.2	—	—	UCFL310C	UCFL310D	—	83	4.4	5.2
UC211	43.4	29.4	14.4	UCFL211C	UCFL211D	UCFL211FC	UCFL211FD	63	74.5	3.3	3.9
UC311	71.6	45.0	13.2	—	—	UCFL311C	UCFL311D	—	87	5.3	6.2

2) Bearings with triple-lip seals are indicated by L3 after the bearing and unit number. (UCFS307JL3, UC307L3)
3) For more detailed information, refer to ball bearing for unit specification tables.

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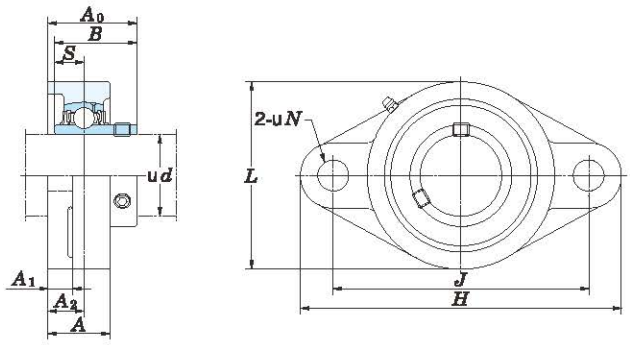
Ball bearing units
rhombic-flanged type
UCFL (with set screws)
d 60 ~ 140 mm



Shaft dia. (mm)	Dimensions (mm)										Bolt size	Unit No.	Housing No.
d	H	L	A	J	N	A_1	A_2	A_0	B	S			
60	250	140	48	202	23	18	29	68.7	65.1	25.4	M20	UCFL212	FL212
	270	160	56	212	31	22	33	78	71	26	M27	UCFL312	FL312
65	258	155	50	210	23	20	30	69.7	65.1	25.4	M20	UCFL213	FL213
	295	175	58	240	31	25	33	78	75	30	M27	UCFL313	FL313
70	265	160	54	216	23	20	31	75.4	74.6	30.2	M20	UCFL214	FL214
	315	185	61	250	35	28	36	81	78	33	M30	UCFL314	FL314
75	275	165	56	225	23	20	34	78.5	77.8	33.3	M20	UCFL215	FL215
	320	195	66	260	35	30	39	89	82	32	M30	UCFL315	FL315
80	290	180	58	233	25	20	34	83.3	82.6	33.3	M22	UCFL216	FL216
	355	210	68	285	38	32	38	90	86	34	M33	UCFL316	FL316
85	305	190	63	248	25	22	36	87.6	85.7	34.1	M22	UCFL217	FL217
	370	220	74	300	38	32	44	100	96	40	M33	UCFL317	FL317
90	320	205	68	265	25	23	40	96.3	96	39.7	M22	UCFL218	FL218
	385	235	76	315	38	36	44	100	96	40	M33	UCFL318	FL318
95	405	250	94	330	41	40	59	121	103	41	M36	UCFL319	FL319
100	440	270	94	360	44	40	59	125	108	42	M39	UCFL320	FL320
105	440	270	94	360	44	40	59	127	112	44	M39	UCFL321	FL321
110	470	300	96	390	44	42	60	131	117	46	M39	UCFL322	FL322
120	520	330	110	430	47	48	65	140	126	51	M42	UCFL324	FL324
130	550	360	115	460	47	50	65	146	135	54	M42	UCFL326	FL326
140	600	400	125	500	51	60	75	161	145	59	M45	UCFL328	FL328

[Remarks] 1) Applicable sizes of grease nipples are shown below.
A-1/4-28UNF..... 201~210, X05~X09, 305~308
A-PT 1/8 ..... 211~217, X10~X17, 309~328

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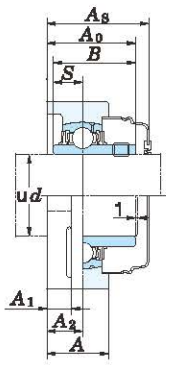
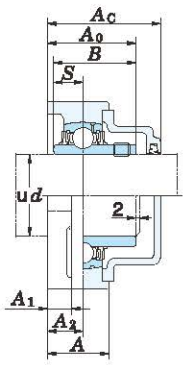
Pressed steel cover



Cast iron cover



Tolerances for housing

unit : mm

housing No.			3_{Ns}
FL204~ FL218	FLX05~ FLX10	FL305~ FL311	±0.2
		FL312~ FL328	±0.3

3_{Ns} : deviation of bolt hole diameter.

unit : mm

housing No.			3_{A2s}	X
FL204~ FL210	FLX05~ FLX10	FL305~ FL310	±0.5	0.7
FL211~ FL218		FL311~ FL328	±0.8	1

3_{A2s} : deviation of distance from mounting face to centre of spherical bearing seating.
X : positional tolerance of bolt hole.

No.	Applicable bearing Basic load ratings (kN) C_r	C_{0r}	Factor f_0	Unit No. with covers Pressed steel covers Open ends	Closed end	Cast iron covers Open ends	Closed end	Cover dimensions (mm) A_s	A_c	(Refer.) Unit mass (kg) Pressed steel covers	Cast iron covers
UC212	52.4	36.2	14.4	UCFL212C	UCFL212D	UCFL212FC	UCFL212FD	73	86	4.2	5.0
UC312	81.9	52.2	13.2	—	—	UCFL312C	UCFL312D	—	95	6.5	7.7
UC213	57.2	40.1	14.4	UCFL213C	UCFL213D	UCFL213FC	UCFL213FD	74	87	5.1	5.9
UC313	92.7	59.9	13.2	—	—	UCFL313C	UCFL313D	—	94	8.5	9.6
UC214	62.2	44.1	14.5	UCFL214C	UCFL214D	UCFL214FC	UCFL214FD	80	93	5.7	6.6
UC314	104	68.2	13.2	—	—	UCFL314C	UCFL314D	—	98	9.7	10.8
UC215	67.4	48.3	14.5	UCFL215C	UCFL215D	UCFL215FC	UCFL215FD	83	96	6.4	7.4
UC315	113	77.2	13.2	—	—	UCFL315C	UCFL315D	—	106	11.3	12.6
UC216	72.7	53.0	14.6	UCFL216C	UCFL216D	UCFL216FC	UCFL216FD	88	103	7.8	9.0
UC316	123	86.7	13.3	—	—	UCFL316C	UCFL316D	—	107	14.4	15.8
UC217	84.0	61.9	14.5	UCFL217C	UCFL217D	UCFL217FC	UCFL217FD	92	107	9.8	11.2
UC317	133	96.8	13.3	—	—	UCFL317C	UCFL317D	—	117	16.0	17.6
UC218	96.1	71.5	14.5	UCFL218C	UCFL218D	UCFL218FC	UCFL218FD	101	116	12.3	13.8
UC318	143	107	13.3	—	—	UCFL318C	UCFL318D	—	119	19.0	20.9
UC319	153	119	13.3	—	—	UCFL319C	UCFL319D	—	140	24.6	26.8
UC320	173	141	13.2	—	—	UCFL320C	UCFL320D	—	146	29.4	32.2
UC321	184	153	13.2	—	—	UCFL321C	UCFL321D	—	148	34.4	37.4
UC322	205	180	13.2	—	—	UCFL322C	UCFL322D	—	154	36.2	39.6
UC324	207	185	13.5	—	—	UCFL324C	UCFL324D	—	163	51.6	56.4
UC326	229	214	13.6	—	—	UCFL326C	UCFL326D	—	172	61.6	67.7
UC328	253	246	13.6	—	—	UCFL328C	UCFL328D	—	186	68.4	76.1

2) Bearings with triple-lip seals are indicated by L3 after the bearing and unit number. (UCFS307JL3, UC307L3)
3) For more detailed information, refer to ball bearing for unit specification tables.

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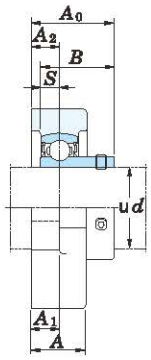
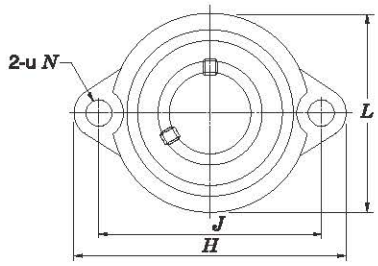
Ball bearing units
light duty rhombic-flanged type
BLF (with set screws)

d　12 ~ 35 mm





Shaft dia. (mm)	Dimensions (mm)										Bolt size	Unit No.	Housing No.	
d	H	L	A	J ±0.7	N ±0.2	A_1	A_2 ±0.5	A_0	B	S				
12	81	52	18	63.5	8	9.5	9.5	25.5	22	6	M6	BLF201	LF203	
15	81	52	18	63.5	8	9.5	9.5	25.5	22	6	M6	BLF202	LF203	
17	81	52	18	63.5	8	9.5	9.5	25.5	22	6	M6	BLF203	LF203	
20	90	60	20	71.5	10	11	11	29	25	7	M8	BLF204	LF204	
25	95	64	20	76	10	11	11	30.5	27	7.5	M8	BLF205	LF205	
30	113	76	22.5	90.5	12	12	12	34	30	8	M10	BLF206	LF206	
35	122	89	24	100	12	13	13	36.5	32	8.5	M10	BLF207	LF207	

[Remarks]　1) The radial loading on housing shoud not exceed 50% of the basic load rating (C_0).
2) For more detailed information, refer to ball bearing for unit specification tables.

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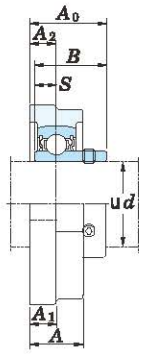
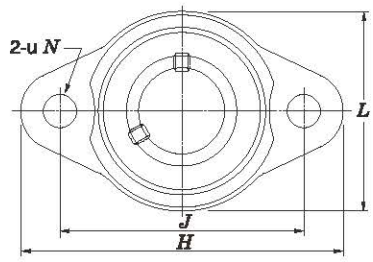
	No.	Applicable bearing Basic load ratings (kN) C_r	C_{0r}	Factor f_0	(Refer.) Unit mass (kg)
	SB201	9.55	4.80	13.2	0.25
	SB202	9.55	4.80	13.2	0.25
	SB203	9.55	4.80	13.2	0.25
	SB204	12.8	6.65	13.2	0.33
	SB205	14.0	7.85	13.9	0.38
	SB206	19.5	11.3	13.9	0.57
	SB207	25.7	15.4	13.9	0.77

L

Ball bearing units
"compact" series rhombic-flanged type
UFL (with set screws)
d 8 ~ 30 mm





Shaft dia. (mm)	Dimensions (mm)										Bolt size	Unit No.	Housing No.	
d	H	L	A	J	N ±0.2	A_1	A_2 ±0.5	A_0	B	S				
8	48	27	8.5	37	4.8	4	4	12.5	12	3.5	M4	UFL08	FL08	
10	60	36	12	45	7	6	6	16	15	5	M6	UFL000	FL000	
12	63	38	12	48	7	6	6	16	15	5	M6	UFL001	FL001	
15	67	42	13	53	7	6.5	6.5	17.5	16.5	5.5	M6	UFL002	FL002	
17	71	46	14	56	7	7	7	18.5	17.5	6	M6	UFL003	FL003	
20	90	55	16	71	10	8	8	22	21	7	M8	UFL004	FL004	
25	95	60	16	75	10	8	8	23	22	7	M8	UFL005	FL005	
30	112	70	18	85	13	9	9	26	24.5	7.5	M10	UFL006	FL006	

[Remarks] 1) Housing is made from special light alloy.
2) For more detailed information, refer to ball bearing for unit specification tables.

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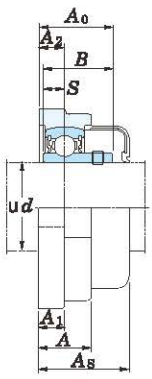
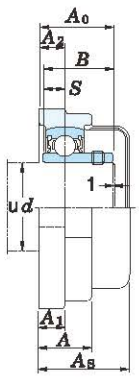
Open ends type



Closed end type



Tolerance for housing

unit : mm

housing No.	X
FL000~FL006	0.6

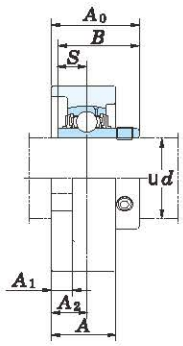
X : positional tolerance of bolt hole.

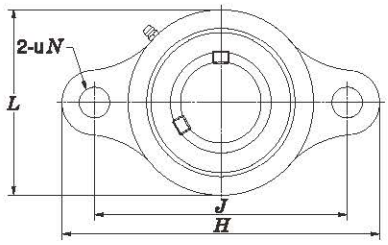
No.	Applicable bearing Basic load ratings (kN) C_r	C_{0r}	Factor f_0	Unit No. with covers Open ends	Closed end	Cover dimension (mm) A_s	(Refer.) Unit mass (kg)
SU08	3.27	1.37	12.4	—	—	—	0.030
SU000	4.55	1.95	12.3	UFL000C	UFL000D	20.5	0.050
SU001	5.10	2.40	13.2	UFL001C	UFL001D	20.5	0.065
SU002	5.60	2.85	13.9	UFL002C	UFL002D	22	0.085
SU003	6.00	3.25	14.4	UFL003C	UFL003D	23.5	0.11
SU004	9.40	5.05	13.9	UFL004C	UFL004D	27	0.18
SU005	10.1	5.85	14.5	UFL005C	UFL005D	28	0.23
SU006	13.2	8.25	14.7	UFL006C	UFL006D	31	0.31

L

Ball bearing units
stainless-series rhombic-flanged type
UCSFL-H1S6 (with set screws)

d 12 ~ 50 mm





Shaft dia. (mm)	Dimensions (mm)										Bolt size	Unit No.	Housing No.	
d	H	L	A	J	N ±0.2	A_1	A_2 ±0.5	A_0	B	S				
12	98	54	24	76.5	12	10	14	29.9	27.4	11.5	M10	UCSFL201XH1S6	SFL203H1	
15	98	54	24	76.5	12	10	14	29.9	27.4	11.5	M10	UCSFL202XH1S6	SFL203H1	
17	98	54	24	76.5	12	10	14	29.9	27.4	11.5	M10	UCSFL203XH1S6	SFL203H1	
20	113	60	26	90	12	10	15	33.3	31	12.7	M10	UCSFL204H1S6	SFL204H1	
25	130	68	27.5	99	16	10	16	35.8	34.1	14.3	M14	UCSFL205H1S6	SFL205H1	
30	148	80	31	117	16	10	18	40.2	38.1	15.9	M14	UCSFL206H1S6	SFL206H1	
35	161	90	34	130	16	11	19	44.4	42.9	17.5	M14	UCSFL207H1S6	SFL207H1	
40	175	100	36	144	16	12	21	51.2	49.2	19	M14	UCSFL208H1S6	SFL208H1	
45	188	108	38	148	19	13	22	52.2	49.2	19	M16	UCSFL209H1S6	SFL209H1	
50	197	115	40	157	19	13	22	54.6	51.6	19	M16	UCSFL210H1S6	SFL210H1	

[Remarks] 1) Applicable size of grease nipples is A-1/4-28UNF.

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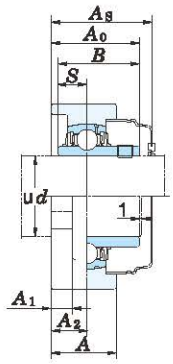
Pressed stainless steel covers



Tolerance for housing

unit : mm

housing No.	X
SFL203 H1~210 H1	0.7

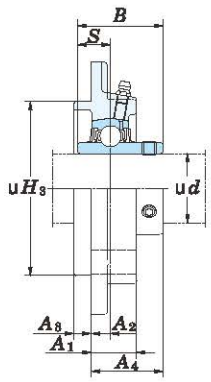
X : positional tolerance of bolt hole.

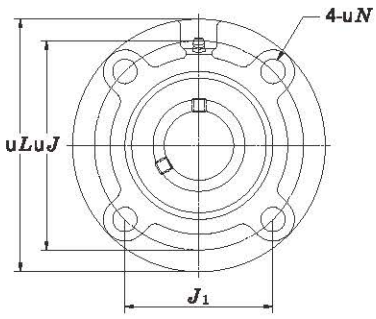
No.	Applicable bearing Basic load ratings (kN) C_r	C_{0r}	Factor f_0	Unit No. with covers Open ends	Closed end	Cover dimension (mm) A_s	(Refer.) Unit mass (kg) Pressed steel covers
UC201XS6	8.15	3.85	13.2	—	—	—	0.31
UC202XS6	8.15	3.85	13.2	—	—	—	0.31
UC203XS6	8.15	3.85	13.2	—	—	—	0.31
UC204S6	10.9	5.35	13.2	UCSFL204H1CS6	UCSFL204H1DS6	38	0.43
UC205S6	11.9	6.30	13.9	UCSFL205H1CS6	UCSFL205H1DS6	40	0.60
UC206S6	16.5	9.05	13.9	UCSFL206H1CS6	UCSFL206H1DS6	45	0.86
UC207S6	21.8	12.3	13.9	UCSFL207H1CS6	UCSFL207H1DS6	49	1.1
UC208S6	24.8	14.3	14.0	UCSFL208H1CS6	UCSFL208H1DS6	56	1.5
UC209S6	27.8	16.2	14.0	UCSFL209H1CS6	UCSFL209H1DS6	57	1.8
UC210S6	29.8	18.6	14.4	UCSFL210H1CS6	UCSFL210H1DS6	59	2.1

2) For more detailed information, refer to ball bearing for unit specification tables.

Ball bearing units
round-flanged type with spigot joint
UCFC (with set screws)

d 12 ~ 65 mm





Shaft dia. (mm)	Dimensions (mm)											Bolt size	Unit No.	Housing No.
d	L	H_3	J	J_1	N ±0.2	A_1	A_2	A_3	A_4	B	S			
12	100	62	78	55.1	12	20.5	10	5	28.3	31	12.7	M10	UCFC201	FC204
15	100	62	78	55.1	12	20.5	10	5	28.3	31	12.7	M10	UCFC202	FC204
17	100	62	78	55.1	12	20.5	10	5	28.3	31	12.7	M10	UCFC203	FC204
20	100	62	78	55.1	12	20.5	10	5	28.3	31	12.7	M10	UCFC204	FC204
25	115	70	90	63.6	12	21	10	6	29.8	34.1	14.3	M10	UCFC205	FC205
	111	76	92	65	9.5	24	10	6	32.2	38.1	15.9	M8	UCFCX05	FCX05
30	125	80	100	70.7	12	23	10	8	32.2	38.1	15.9	M10	UCFC206	FC206
	127	85	105	74.2	12	22.5	8	9.5	33.4	42.9	17.5	M10	UCFCX06	FCX06
35	135	90	110	77.8	14	26	11	8	36.4	42.9	17.5	M12	UCFC207	FC207
	133	92	111	78.5	12	26	9	11	39.2	49.2	19	M10	UCFCX07	FCX07
40	145	100	120	84.8	14	26	11	10	41.2	49.2	19	M12	UCFC208	FC208
	133	92	111	78.5	12	26	9	11	39.2	49.2	19	M10	UCFCX08	FCX08
45	160	105	132	93.3	16	26	10	12	40.2	49.2	19	M14	UCFC209	FC209
	155	108	130	91.9	14	25	8	12	40.6	51.6	19	M12	UCFCX09	FCX09
50	165	110	138	97.6	16	28	10	12	42.6	51.6	19	M14	UCFC210	FC210
	162	118	136	96.2	14	25	7	16	40.4	55.6	22.2	M12	UCFCX10	FCX10
55	185	125	150	106.1	19	31	13	12	46.4	55.6	22.2	M16	UCFC211	FC211
	180	127	152	107.5	16	26	4	22	43.7	65.1	25.4	M14	UCFCX11	FCX11
60	195	135	160	113.1	19	36	17	12	56.7	65.1	25.4	M16	UCFC212	FC212
	194	140	165	116.7	16	33	11	20	50.7	65.1	25.4	M14	UCFCX12	FCX12
65	205	145	170	120.2	19	36	16	14	55.7	65.1	25.4	M16	UCFC213	FC213
	194	140	165	116.7	16	33	11	20	55.4	74.6	30.2	M14	UCFCX13	FCX13

[Remarks] 1) Applicable sizes of grease nipples are shown below.
A-1/4-28UNF..... 201~210, X05~X09
A-PT 1/8 ..... 211~218, X10~X20

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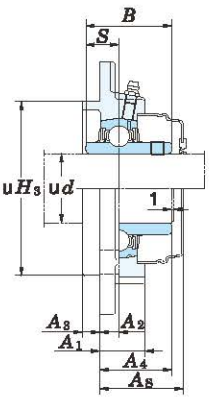
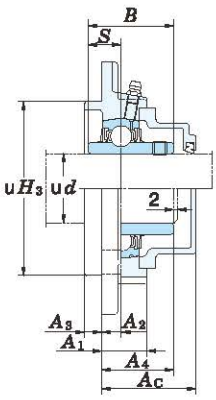
Pressed steel cover



Cast iron cover



Tolerances for housing

unit : mm

housing No.		3_{H3s}	3_{A2s}	X	Y
FC204~ FC206	FCX05	0 -0.046	±0.5	0.7	0.2
FC207~ FC210	FCX06~ FCX10	0 -0.054			
FC211~ FC217	FCX11~ FCX15	0 -0.063	±0.8	1	0.3
FC218	FCX16~ FCX18	0 -0.072			
	FCX20				0.4

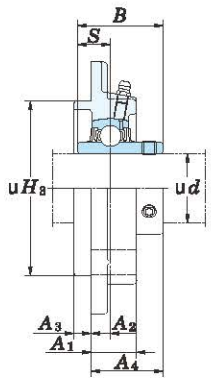
3_{H3s} : deviation of spigot joint outside diameter.
3_{A2s} : deviation of distance from mounting face to centre of spherical bearing seating.
X : positional tolerance of bolt hole.
Y : circumferential runout tolerance of spigot joint in respect to axial line of spherical bearing seating.

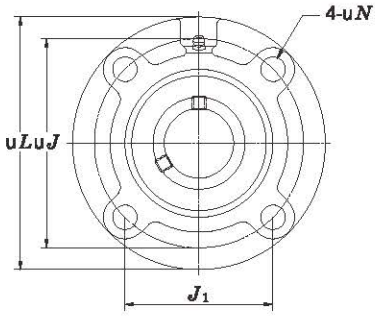
No.	Applicable bearing Basic load ratings (kN) C_r	C_{0r}	Factor f_0	Unit No. with covers Pressed steel covers Open ends	Closed end	Cast iron covers Open ends	Closed end	Cover dimensions (mm) A_s	A_c	(Refer.) Unit Mass (kg) Pressed steel covers	Cast iron covers
UC201	12.8	6.65	13.2	UCFC201C	UCFC201D	—	—	32	—	0.78	—
UC202	12.8	6.65	13.2	UCFC202C	UCFC202D	—	—	32	—	0.76	—
UC203	12.8	6.65	13.2	UCFC203C	UCFC203D	—	—	32	—	0.75	—
UC204	12.8	6.65	13.2	UCFC204C	UCFC204D	UCFC204FC	UCFC204FD	32	38.5	0.73	0.84
UC205	14.0	7.85	13.9	UCFC205C	UCFC205D	UCFC205FC	UCFC205FD	34	42	0.95	1.1
UCX05	19.5	11.3	13.9	UCFCX05C	UCFCX05D	—	—	36	—	1.2	—
UC206	19.5	11.3	13.9	UCFC206C	UCFC206D	UCFC206FC	UCFC206FD	36	45	1.3	1.6
UCX06	25.7	15.4	13.9	UCFCX06C	UCFCX06D	—	—	38	—	1.5	—
UC207	25.7	15.4	13.9	UCFC207C	UCFC207D	UCFC207FC	UCFC207FD	41	50	1.7	2.1
UCX07	29.1	17.8	14.0	UCFCX07C	UCFCX07D	—	—	43	—	1.9	—
UC208	29.1	17.8	14.0	UCFC208C	UCFC208D	UCFC208FC	UCFC208FD	45	54	2.0	2.4
UCX08	32.7	20.3	14.0	UCFCX08C	UCFCX08D	—	—	43	—	2.0	—
UC209	32.7	20.3	14.0	UCFC209C	UCFC209D	UCFC209FC	UCFC209FD	44	54	2.6	3.0
UCX09	35.1	23.3	14.4	UCFCX09C	UCFCX09D	—	—	45	—	2.6	—
UC210	35.1	23.3	14.4	UCFC210C	UCFC210D	UCFC210FC	UCFC210FD	47	58.5	2.9	3.4
UCX10	43.4	29.4	14.4	UCFCX10C	UCFCX10D	—	—	45	—	3.2	—
UC211	43.4	29.4	14.4	UCFC211C	UCFC211D	UCFC211FC	UCFC211FD	51	62.5	4.2	4.8
UCX11	52.4	36.2	14.4	UCFCX11C	UCFCX11D	—	—	48	—	4.3	—
UC212	52.4	36.2	14.4	UCFC212C	UCFC212D	UCFC212FC	UCFC212FD	61	74	5.0	5.8
UCX12	57.2	40.1	14.4	UCFCX12C	UCFCX12D	—	—	55	—	5.3	—
UC213	57.2	40.1	14.4	UCFC213C	UCFC213D	UCFC213FC	UCFC213FD	60	73	5.6	6.4
UCX13	62.2	44.1	14.5	UCFCX13C	UCFCX13D	—	—	60	—	5.7	—

2) For bearings with double- or triple-lip seals, unit and bearing number are suffixed by L2 or L3. (UCFC206JL3, UC206L3)
3) For more detailed information, refer to ball bearing for unit specification tables.

Ball bearing units
round-flanged type with spigot joint
UCFC (with set screws)

d 70 ~ 100 mm





Shaft dia. (mm)	Dimensions (mm)											Bolt size	Unit No.	Housing No.
d	L	H_3	J	J_1	N ±0.2	A_1	A_2	A_3	A_4	B	S			
70	215	150	177	125.1	19	40	17	14	61.4	74.6	30.2	M16	UCFC214	FC214
	222	164	190	134.3	19	36	14	20	58.5	77.8	33.3	M16	UCFCX14	FCX14
75	220	160	184	130.1	19	40	18	16	62.5	77.8	33.3	M16	UCFC215	FC215
	222	164	190	134.3	19	35	12	22	61.3	82.6	33.3	M16	UCFCX15	FCX15
80	240	170	200	141.4	23	42	18	16	67.3	82.6	33.3	M20	UCFC216	FC216
	260	186	219	154.8	23	36	10	25	61.6	85.7	34.1	M20	UCFCX16	FCX16
85	250	180	208	147.1	23	45	18	18	69.6	85.7	34.1	M20	UCFC217	FC217
	260	186	219	154.8	23	36	10	25	66.3	96	39.7	M20	UCFCX17	FCX17
90	265	190	220	155.5	23	50	22	18	78.3	96	39.7	M20	UCFC218	FC218
	260	186	219	154.8	23	43	12	28	73.1	104	42.9	M20	UCFCX18	FCX18
100	276	206	238	168.3	23	66	22	28	90.3	117.5	49.2	M20	UCFCX20	FCX20

[Remarks] 1) Applicable sizes of grease nipples are shown below.
A-1/4-28UNF..... 201~210, X05~X09
A-PT 1/8 ..... 211~218, X10~X20

L

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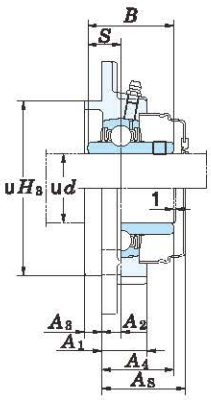
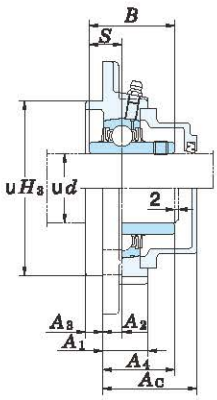
Pressed steel cover



Cast iron cover



Tolerances for housing

unit : mm

housing No.		3_{H3s}	3_{A2s}	X	Y
FC204~ FC206	FCX05	0 -0.046	±0.5	0.7	0.2
FC207~ FC210	FCX06~ FCX10	0 -0.054			
FC211~ FC217	FCX11~ FCX15	0 -0.063	±0.8	1	0.3
FC218	FCX16~ FCX18	0 -0.072			
	FCX20				0.4

3_{H3s} : deviation of spigot joint outside diameter.
3_{A2s} : deviation of distance from mounting face to centre of spherical bearing seating.
X : positional tolerance of bolt hole.
Y : circumferential runout tolerance of spigot joint in respect to axial line of spherical bearing seating.

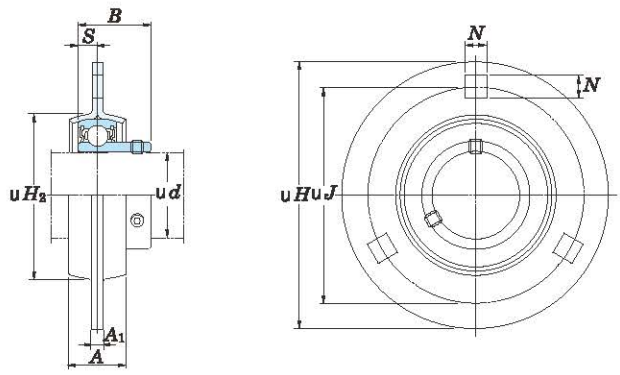
No.	Applicable bearing Basic load ratings (kN) C_r	C_{0r}	Factor f_0	Unit No. with covers Pressed steel covers Open ends	Closed end	Cast iron covers Open ends	Closed end	Cover dimensions (mm) A_s	A_c	(Refer.) Unit Mass (kg) Pressed steel covers	Cast iron covers
UC214	62.2	44.1	14.5	UCFC214C	UCFC214D	UCFC214FC	UCFC214FD	66	79	6.8	7.7
UCX14	67.4	48.3	14.5	UCFCX14C	UCFCX14D	—	—	63	—	7.3	—
UC215	67.4	48.3	14.5	UCFC215C	UCFC215D	UCFC215FC	UCFC215FD	67	80	7.2	8.2
UCX15	72.7	53.0	14.6	UCFCX15C	UCFCX15D	—	—	66	—	8.0	—
UC216	72.7	53.0	14.6	UCFC216C	UCFC216D	UCFC216FC	UCFC216FD	72	87	8.7	9.9
UCX16	84.0	61.9	14.5	UCFCX16C	UCFCX16D	—	—	66	—	11.3	—
UC217	84.0	61.9	14.5	UCFC217C	UCFC217D	UCFC217FC	UCFC217FD	74	89	10.3	11.7
UCX17	96.1	71.5	14.5	UCFCX17C	UCFCX17D	—	—	71	—	12.9	—
UC218	96.1	71.5	14.5	UCFC218C	UCFC218D	UCFC218FC	UCFC218FD	83	98	13.3	14.8
UCX18	109	81.9	14.4	—	—	UCFCX18C	UCFCX18D	—	92	13.5	15.4
UCX20	133	105	14.4	—	—	UCFCX20C	UCFCX20D	—	116	18.2	20.7

2) For bearings with double- or triple-lip seals, unit and bearing number are suffixed by L2 or L3. (UCFC206JL3, UC206L3)
3) For more detailed information, refer to ball bearing for unit specification tables.

L

Ball bearing units
pressed steel round-flanged type
SBPF (with set screws)

d　12 ~ 35 mm



Shaft dia. (mm) d	Dimensions (mm) H	A	A_1	J ±0.4	N ±0.25	H_2 1)	B	S	Bolt size	Unit No.	Housing No.	
12	81	14	4	63.5	7.1	49	22	6	M6	SBPF201	PF203	
15	81	14	4	63.5	7.1	49	22	6	M6	SBPF202	PF203	
17	81	14	4	63.5	7.1	49	22	6	M6	SBPF203	PF203	
20	90	16	4	71.5	9	55	25	7	M8	SBPF204	PF204	
25	95	18	4	76	9	60	27	7.5	M8	SBPF205	PF205	
30	113	19	5.2	90.5	11	71	30	8	M10	SBPF206	PF206	
35	122	22	5.2	100	11	81	32	8.5	M10	SBPF207	PF207	

[Note]　1) H_2 shows minimum dimension of mounting hole.
[Remark]　For more detailed information, refer to ball bearing for unit specification tables.

L

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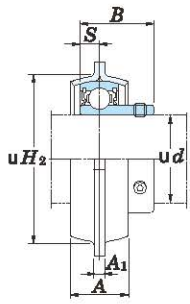
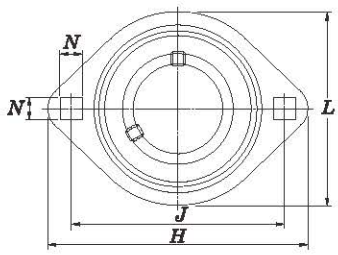
	No.	Applicable bearing Basic load ratings (kN) C_r	C_{0r}	Factor f_0	(Refer.) Unit mass (kg)
	SB201	9.55	4.80	13.2	0.27
	SB202	9.55	4.80	13.2	0.27
	SB203	9.55	4.80	13.2	0.27
	SB204	12.8	6.65	13.2	0.33
	SB205	14.0	7.85	13.9	0.38
	SB206	19.5	11.3	13.9	0.62
	SB207	25.7	15.4	13.9	0.82

L

Ball bearing units
pressed steel rhombic-flanged type
SBPFL (with set screws)
d 12 ~ 35 mm





Shaft dia. (mm)	Dimensions (mm)									Bolt size	Unit No.	Housing No.	
d	H	L	A	A_1	J ±0.4	N ±0.25	H_2 1)	B	S				
12	81	59	14	4	63.5	7.1	49	22	6	M6	SBPFL201	PFL203	
15	81	59	14	4	63.5	7.1	49	22	6	M6	SBPFL202	PFL203	
17	81	59	14	4	63.5	7.1	49	22	6	M6	SBPFL203	PFL203	
20	90	67	16	4	71.5	9	55	25	7	M8	SBPFL204	PFL204	
25	95	71	18	4	76	9	60	27	7.5	M8	SBPFL205	PFL205	
30	113	84	19	5.2	90.5	11	71	30	8	M10	SBPFL206	PFL206	
35	122	94	22	5.2	100	11	81	32	8.5	M10	SBPFL207	PFL207	

[Note] 1) H_2 shows minimum dimension of mounting hole.
[Remark] For more detailed information, refer to ball bearing for unit specification tables.

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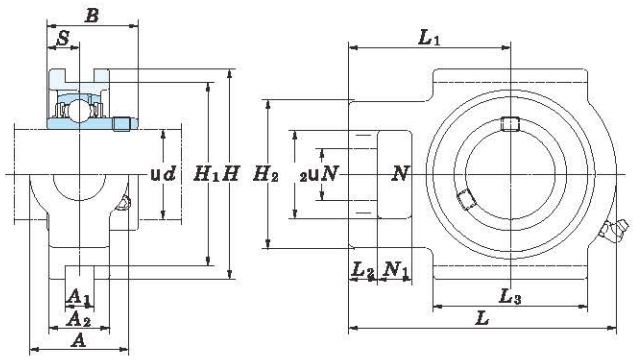
	No.	Applicable bearing Basic load ratings (kN) C_r	C_{0r}	Factor f_0	(Refer.) Unit mass (kg)
	SB201	9.55	4.80	13.2	0.19
	SB202	9.55	4.80	13.2	0.19
	SB203	9.55	4.80	13.2	0.19
	SB204	12.8	6.65	13.2	0.24
	SB205	14.0	7.85	13.9	0.28
	SB206	19.5	11.3	13.9	0.38
	SB207	25.7	15.4	13.9	0.66

L

Ball bearing units
take-up type
UCT (with set screws)
d 12 ~ (55) mm



Shaft dia. (mm)	Dimensions (mm)															Unit No.	Housing No.	
d	A	A_1	A_2	H	H_1	H_2	L	L_1	L_2	L_3	N	N_1	N_2	B	S			
12	32	12	21	89	76	51	94	61	10	51	19	16	32	31	12.7	UCT201	T204	
15	32	12	21	89	76	51	94	61	10	51	19	16	32	31	12.7	UCT202	T204	
17	32	12	21	89	76	51	94	61	10	51	19	16	32	31	12.7	UCT203	T204	
20	32	12	21	89	76	51	94	61	10	51	19	16	32	31	12.7	UCT204	T204	
25	32	12	24	89	76	51	97	62	10	51	19	16	32	34.1	14.3	UCT205	T205	
	37	12	28	102	89	56	113	70	10	57	22	16	37	38.1	15.9	UCTX05	TX05	
	36	12	26	89	80	62	122	76	12	65	26	16	36	38	15	UCT305	T305	
30	37	12	28	102	89	56	113	70	10	57	22	16	37	38.1	15.9	UCT206	T206	
	37	12	30	102	89	64	129	78	13	64	22	16	37	42.9	17.5	UCTX06	TX06	
	41	16	28	100	90	70	137	85	14	74	28	18	41	43	17	UCT306	T306	
35	37	12	30	102	89	64	129	78	13	64	22	16	37	42.9	17.5	UCT207	T207	
	49	16	36	114	102	83	144	88	15	83	29	19	49	49.2	19	UCTX07	TX07	
	45	16	32	111	100	75	150	94	15	80	30	20	45	48	19	UCT307	T307	
40	49	16	33	114	102	83	144	88	16	83	29	19	49	49.2	19	UCT208	T208	
	49	16	36	117	102	83	144	87	15	83	29	19	49	49.2	19	UCTX08	TX08	
	50	18	34	124	112	83	162	100	17	89	32	22	50	52	19	UCT308	T308	
45	49	16	35	117	102	83	144	87	16	83	29	19	49	49.2	19	UCT209	T209	
	49	16	38	117	102	83	149	90	16	86	29	19	49	51.6	19	UCTX09	TX09	
	55	18	38	138	125	90	178	110	18	97	34	24	55	57	22	UCT309	T309	
50	49	16	37	117	102	83	149	90	16	86	29	19	49	51.6	19	UCT210	T210	
	64	22	42	146	130	102	171	106	19	95	35	25	64	55.6	22.2	UCTX10	TX10	
	61	20	40	151	140	98	191	117	20	106	37	27	61	61	22	UCT310	T310	
55	64	22	38	146	130	102	171	106	19	95	35	25	64	55.6	22.2	UCT211	T211	

[Remarks] 1) Applicable sizes of grease nipples are shown below.
B-1/4-28UNF..... 201~210, X05~X09, 305~308
B-PT 1/8 ..... 211~217, X10~X17, 309~328

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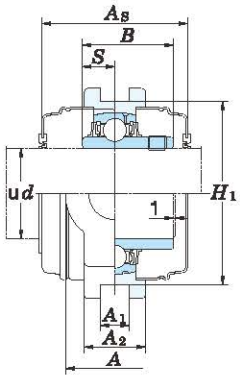
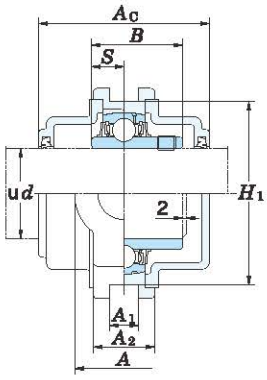
Pressed steel covers



Cast iron covers

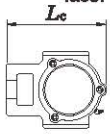


Tolerances for housing

unit : mm

housing No.			3_{A1s}	3_{H1s}	X
T204~ T210	TX05~ TX10	T305~ T310	+0.2 0	0 -0.5	0.5
T211~ T217	TX11~ TX17	T311~ T318	+0.3 0	0 -0.8	0.6
		T319~ T322			0.7
		T324~ T328			0.8

3_{A1s} : deviation of nominal raceway groove width.
3_{H1s} : deviation of distance between both groove bottoms.
X : symmetricity tolerance of both groove-side face.



T204JE3, T205JE3 (with cast iron covers) are shown below.

T204JE3 L_c = 97 mm
T205JE3 L_c = 102 mm

No.	Applicable bearing Basic load ratings (kN) C_r	C_{0r}	Factor f_0	Unit No. with covers Pressed steel covers Open ends	Closed end	Cast iron covers Open ends	Closed end	Cover dimensions (mm) A_s	A_c	(Refer.) Unit mass (kg) Pressed steel covers	Cast iron covers
UC201	12.8	6.65	13.2	UCT201C	UCT201CD	—	—	44	—	0.81	—
UC202	12.8	6.65	13.2	UCT202C	UCT202CD	—	—	44	—	0.79	—
UC203	12.8	6.65	13.2	UCT203C	UCT203CD	—	—	44	—	0.78	—
UC204	12.8	6.65	13.2	UCT204C	UCT204CD	UCT204FC	UCT204FCD	44	62	0.76	1.1
UC205	14.0	7.85	13.9	UCT205C	UCT205CD	UCT205FC	UCT205FCD	48	66	0.84	1.2
UCX05	19.5	11.3	13.9	UCTX05C	UCTX05CD	—	—	52	—	1.4	—
UC305	21.2	10.9	12.6	—	—	UCT305C	UCT305CD	—	76	1.4	2.0
UC206	19.5	11.3	13.9	UCT206C	UCT206CD	UCT206FC	UCT206FCD	52	70	1.3	1.8
UCX06	25.7	15.4	13.9	UCTX06C	UCTX06CD	—	—	59	—	1.7	—
UC306	26.7	15.0	13.3	—	—	UCT306C	UCT306CD	—	82	1.8	2.4
UC207	25.7	15.4	13.9	UCT207C	UCT207CD	UCT207FC	UCT207FCD	59	78	1.6	2.3
UCX07	29.1	17.8	14.0	UCTX07C	UCTX07CD	—	—	68	—	2.7	—
UC307	33.4	19.3	13.2	—	—	UCT307C	UCT307CD	—	88	2.3	3.1
UC208	29.1	17.8	14.0	UCT208C	UCT208CD	UCT208FC	UCT208FCD	68	86	2.5	3.3
UCX08	32.7	20.3	14.0	UCTX08C	UCTX08CD	—	—	68	—	2.6	—
UC308	40.7	24.0	13.2	—	—	UCT308C	UCT308CD	—	96	3.0	4.0
UC209	32.7	20.3	14.0	UCT209C	UCT209CD	UCT209FC	UCT209FCD	68	88	2.4	3.2
UCX09	35.1	23.3	14.4	UCTX09C	UCTX09CD	—	—	73	—	2.9	—
UC309	48.9	29.5	13.3	—	—	UCT309C	UCT309CD	—	102	4.1	5.4
UC210	35.1	23.3	14.4	UCT210C	UCT210CD	UCT210FC	UCT210FCD	73	97	2.6	3.6
UCX10	43.4	29.4	14.4	UCTX10C	UCTX10CD	—	—	75	—	4.4	—
UC310	62.0	38.3	13.2	—	—	UCT310C	UCT310CD	—	110	4.9	6.5
UC211	43.4	29.4	14.4	UCT211C	UCT211CD	UCT211FC	UCT211FCD	75	99	4.0	5.2

2) For bearings with double- or triple-lip seals, unit and bearing number are suffixed by L2 or L3. (UCT206JL3, UC206L3)
3) For more detailed information, refer to ball bearing for unit specification tables.

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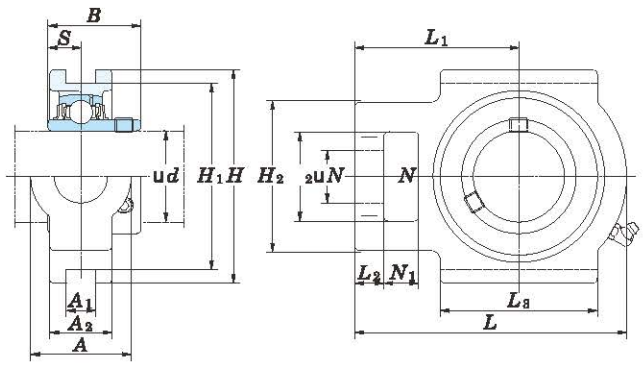
Ball bearing units
take-up type
UCT (with set screws)
d (55) ~ 100 mm



Shaft dia. (mm)	Dimensions (mm)															Unit No.	Housing No.
d	A	A_1	A_2	H	H_1	H_2	L	L_1	L_2	L_3	N	N_1	N_2	B	S		
55	64	22	44	146	130	102	194	119	19	102	35	32	64	65.1	25.4	UCTX11	TX11
	66	22	44	163	150	105	207	127	21	115	39	29	66	66	25	UCT311	T311
60	64	22	42	146	130	102	194	119	19	102	35	32	64	65.1	25.4	UCT212	T212
	70	26	48	167	151	111	224	137	21	121	41	32	70	65.1	25.4	UCTX12	TX12
	71	22	46	178	160	113	220	135	23	123	41	31	71	71	26	UCT312	T312
65	70	26	44	167	151	111	224	137	21	121	41	32	70	65.1	25.4	UCT213	T213
	70	26	48	167	151	111	224	137	21	121	41	32	70	74.6	30.2	UCTX13	TX13
	80	26	50	190	170	116	238	146	25	134	43	32	70	75	30	UCT313	T313
70	70	26	46	167	151	111	224	137	21	121	41	32	70	74.6	30.2	UCT214	T214
	70	26	48	167	151	111	232	140	21	121	41	32	70	77.8	33.3	UCTX14	TX14
	90	26	52	202	180	130	252	155	25	140	46	36	85	78	33	UCT314	T314
75	70	26	48	167	151	111	232	140	21	121	41	32	70	77.8	33.3	UCT215	T215
	70	28	48	184	165	111	235	140	21	121	41	32	70	82.6	33.3	UCTX15	TX15
	90	26	55	216	192	132	262	160	25	150	46	36	85	82	32	UCT315	T315
80	70	26	51	184	165	111	235	140	21	121	41	32	70	82.6	33.3	UCT216	T216
	73	28	54	198	173	124	260	162	28	157	48	38	73	85.7	34.1	UCTX16	TX16
	102	30	60	230	204	150	282	174	28	160	53	42	98	86	34	UCT316	T316
85	73	30	54	198	173	124	260	162	29	157	48	38	73	85.7	34.1	UCT217	T217
	73	28	54	198	173	124	260	162	28	157	48	38	73	96	39.7	UCTX17	TX17
	102	32	64	240	214	152	298	183	30	170	53	42	98	96	40	UCT317	T317
90	110	32	66	255	228	160	312	192	30	175	57	46	106	96	40	UCT318	T318
95	110	35	72	270	240	165	322	197	31	180	57	46	106	103	41	UCT319	T319
100	120	35	75	290	260	175	345	210	32	200	59	48	115	108	42	UCT320	T320

[Remarks] 1) Applicable sizes of grease nipples are shown below.
B-1/4-28UNF..... 201~210, X05~X09, 305~308
B-PT 1/8 ..... 211~217, X10~X17, 309~328

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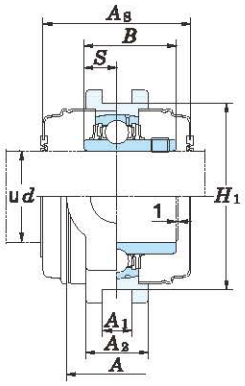
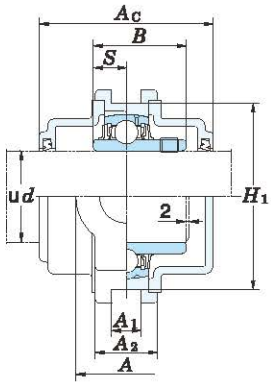
Pressed steel covers



Cast iron covers



Tolerances for housing

unit : mm

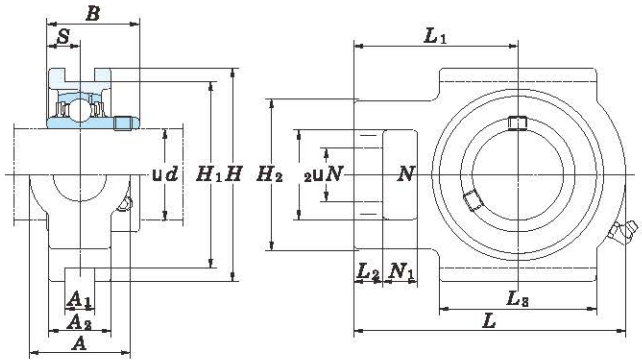
housing No.			3_{A1s}	3_{H1s}	X
T204~ T210	TX05~ TX10	T305~ T310	+0.2 0	0 -0.5	0.5
T211~ T217	TX11~ TX17	T311~ T318	+0.3 0	0 -0.8	0.6
		T319~ T322			0.7
		T324~ T328			0.8

3_{A1s} : deviation of nominal raceway groove width.
3_{H1s} : deviation of distance between both groove bottoms.
X : symmetricity tolerance of both groove-side face.

No.	Applicable bearing Basic load ratings (kN) C_r	C_{0r}	Factor f_0	Unit No. with covers Pressed steel covers Open ends	Closed end	Cast iron covers Open ends	Closed end	Cover dimensions (mm) A_s	A_c	(Refer.) Unit mass (kg) Pressed steel covers	Cast iron covers
UCX11	52.4	36.2	14.4	UCTX11C	UCTX11CD	—	—	88	—	5.3	—
UC311	71.6	45.0	13.2	—	—	UCT311C	UCT311CD	—	114	6.1	7.9
UC212	52.4	36.2	14.4	UCT212C	UCT212CD	UCT212FC	UCT212FCD	88	114	4.9	6.4
UCX12	57.2	40.1	14.4	UCTX12C	UCTX12CD	—	—	88	—	7.4	—
UC312	81.9	52.2	13.2	—	—	UCT312C	UCT312CD	—	124	7.6	9.9
UC213	57.2	40.1	14.4	UCT213C	UCT213CD	UCT213FC	UCT213FCD	88	114	6.9	8.6
UCX13	62.2	44.1	14.5	UCTX13C	UCTX13CD	—	—	98	—	7.6	—
UC313	92.7	59.9	13.2	—	—	UCT313C	UCT313CD	—	122	9.3	11.4
UC214	62.2	44.1	14.5	UCT214C	UCT214CD	UCT214FC	UCT214FCD	98	124	7.0	8.9
UCX14	67.4	48.3	14.5	UCTX14C	UCTX14CD	—	—	98	—	7.9	—
UC314	104	68.2	13.2	—	—	UCT314C	UCT314CD	—	124	11.1	13.4
UC215	67.4	48.3	14.5	UCT215C	UCT215CD	UCT215FC	UCT215FCD	98	124	7.3	9.2
UCX15	72.7	53.0	14.6	UCTX15C	UCTX15CD	—	—	108	—	8.7	—
UC315	113	77.2	13.2	—	—	UCT315C	UCT315CD	—	134	13.0	15.5
UC216	72.7	53.0	14.6	UCT216C	UCT216CD	UCT216FC	UCT216FCD	108	138	8.2	10.6
UCX16	84.0	61.9	14.5	UCTX16C	UCTX16CD	—	—	112	—	11.7	—
UC316	123	86.7	13.3	—	—	UCT316C	UCT316CD	—	138	16.2	19.1
UC217	84.0	61.9	14.5	UCT217C	UCT217CD	UCT217FC	UCT217FCD	112	142	11.0	13.7
UCX17	96.1	71.5	14.5	UCTX17C	UCTX17CD	—	—	122	—	11.7	—
UC317	133	96.8	13.3	—	—	UCT317C	UCT317CD	—	146	19.0	22.3
UC318	143	107	13.3	—	—	UCT318C	UCT318CD	—	150	21.6	25.4
UC319	153	119	13.3	—	—	UCT319C	UCT319CD	—	162	24.9	29.2
UC320	173	141	13.2	—	—	UCT320C	UCT320CD	—	174	30.7	36.3

2) For bearings with double- or triple-lip seals, unit and bearing number are suffixed by L2 or L3. (UCT206JL3, UC206L3)
3) For more detailed information, refer to ball bearing for unit specification tables.

Ball bearing units
take-up type
UCT (with set screws)
d 105 ~ 140 mm



Shaft dia. (mm)	Dimensions (mm)															Unit No.	Housing No.	
d	A	A_1	A_2	H	H_1	H_2	L	L_1	L_2	L_3	N	N_1	N_2	B	S			
105	120	35	75	290	260	175	345	210	32	200	59	48	115	112	44	UCT321	T321	
110	130	38	80	320	285	185	385	235	38	215	65	52	125	117	46	UCT322	T322	
120	140	45	90	355	320	210	432	267	42	230	70	60	140	126	51	UCT324	T324	
130	150	50	100	385	350	220	465	285	45	240	75	65	150	135	54	UCT326	T326	
140	155	50	100	415	380	230	515	315	50	255	80	70	160	145	59	UCT328	T328	

[Remarks] 1) Applicable sizes of grease nipples are shown below.
B-1/4-28UNF..... 201~210, X05~X09, 305~308
B-PT 1/8 ..... 211~217, X10~X17, 309~328

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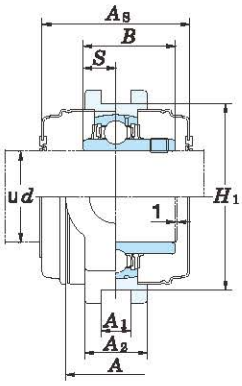
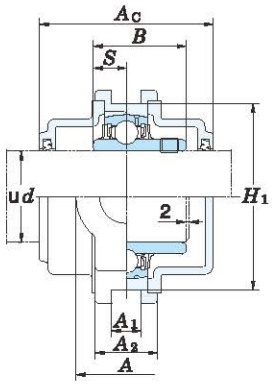
Pressed steel covers



Cast iron covers



Tolerances for housing

unit : mm

housing No.			3_{A1s}	3_{H1s}	X
T204~ T210	TX05~ TX10	T305~ T310	+0.2 0	0 -0.5	0.5
T211~ T217	TX11~ TX17	T311~ T318	+0.3 0	0 -0.8	0.6
		T319~ T322			0.7
		T324~ T328			0.8

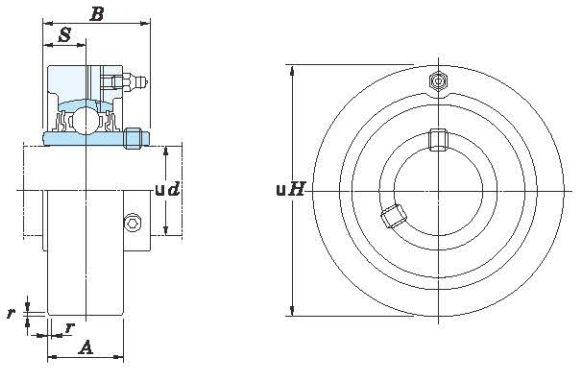
3_{A1s} : deviation of nominal raceway groove width.
3_{H1s} : deviation of distance between both groove bottoms.
X : symmetricity tolerance of both groove-side face.

No.	Applicable bearing Basic load ratings (kN) C_r	C_{0r}	Factor f_0	Unit No. with covers Pressed steel covers Open ends	Closed end	Cast iron covers Open ends	Closed end	Cover dimensions (mm) A_s	A_c	(Refer.) Unit mass (kg) Pressed steel covers	Cast iron covers
UC321	184	153	13.2	—	—	UCT321C	UCT321CD	—	178	36.7	42.7
UC322	205	180	13.2	—	—	UCT322C	UCT322CD	—	188	39.7	46.5
UC324	207	185	13.5	—	—	UCT324C	UCT324CD	—	196	54.4	63.9
UC326	229	214	13.6	—	—	UCT326C	UCT326CD	—	214	69.3	81.4
UC328	253	246	13.6	—	—	UCT328C	UCT328CD	—	222	85.1	101

2) For bearings with double- or triple-lip seals, unit and bearing number are suffixed by L2 or L3. (UCT206JL3, UC206L3)
3) For more detailed information, refer to ball bearing for unit specification tables.

L

Ball bearing units
cartridge type
UCC (with set screws)
d 12 ~ 50 mm



Shaft dia. (mm) d	Dimensions (mm) H	A	r	B	S	Unit No.	Housing No.	Applicable bearing No.	Basic load ratings (kN) C_r	C_{0r}	Factor f_0	(Refer.) Unit mass (kg)
12	72	20	1.5	31	12.7	UCC201	C204	UC201	12.8	6.65	13.2	0.52
15	72	20	1.5	31	12.7	UCC202	C204	UC202	12.8	6.65	13.2	0.50
17	72	20	1.5	31	12.7	UCC203	C204	UC203	12.8	6.65	13.2	0.49
20	72	20	1.5	31	12.7	UCC204	C204	UC204	12.8	6.65	13.2	0.47
25	80	22	1.5	34.1	14.3	UCC205	C205	UC205	14.0	7.85	13.9	0.64
	90	27	1.5	38.1	15.9	UCCX05	CX05	UCX05	19.5	11.3	13.9	1.0
	90	26	2	38	15	UCC305	C305	UC305	21.2	10.9	12.6	1.5
30	85	27	1.5	38.1	15.9	UCC206	C206	UC206	19.5	11.3	13.9	0.81
	100	30	2	42.9	17.5	UCCX06	CX06	UCX06	25.7	15.4	13.9	1.3
	100	28	2	43	17	UCC306	C306	UC306	26.7	15.0	13.3	1.7
35	90	28	2	42.9	17.5	UCC207	C207	UC207	25.7	15.4	13.9	0.93
	110	34	2	49.2	19	UCCX07	CX07	UCX07	29.1	17.8	14.0	1.7
	110	32	3	48	19	UCC307	C307	UC307	33.4	19.3	13.2	2.2
40	100	30	2	49.2	19	UCC208	C208	UC208	29.1	17.8	14.0	1.2
	120	38	2	49.2	19	UCCX08	CX08	UCX08	32.7	20.3	14.0	2.3
	120	34	3	52	19	UCC308	C308	UC308	40.7	24.0	13.2	2.2
45	110	31	2	49.2	19	UCC209	C209	UC209	32.7	20.3	14.0	1.5
	120	38	2	51.6	19	UCCX09	CX09	UCX09	35.1	23.3	14.4	2.3
	130	38	3	57	22	UCC309	C309	UC309	48.9	29.5	13.3	2.8
50	120	33	2	51.6	19	UCC210	C210	UC210	35.1	23.3	14.4	2.0
	130	40	2.5	55.6	22.2	UCCX10	CX10	UCX10	43.4	29.4	14.4	2.8
	140	40	3	61	22	UCC310	C310	UC310	62.0	38.3	13.2	3.2

[Remarks] 1) Applicable sizes of grease nipples are shown below.
A-1/4-28UNF ..... 201~213, X05~X12, 305~308
A-PT 1/8 ..... 309~328
2) For bearings with double- or triple-lip seals, unit and bearing number are suffixed by L2 or L3. (UCC206JL3, UC206L3)
3) For more detailed information, refer to ball bearing for unit specification tables.

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d 55 ～130 mm

Tolerances for housing

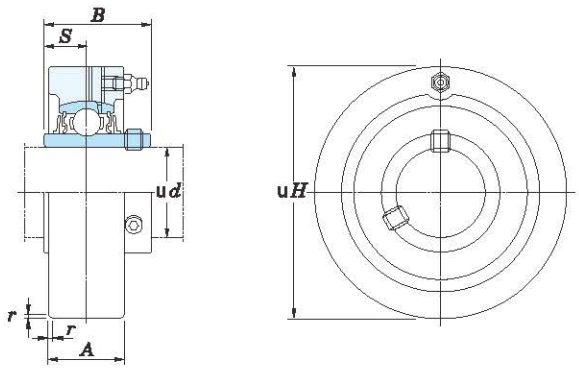
unit : mm

housing No.			3_{Hs}	3_{As}	Y
C204~C205			0 -0.030	±0.2	0.2
C206~C210	CX05~CX08	C305~C308	0 -0.035		
	CX09~CX10	C309~C310	0 -0.040		
C211~C213	CX11~CX12	C311~C314		±0.3	0.3
		C315~C318	0 -0.046		
		C319			0.4
		C320~C322	0 -0.052		
		C324~C328	0 -0.057		

3_{Hs} : deviation of outside diameter.
3_{As} : deviation of width.
Y : circumferential runout tolerances of outside diameter in respect to shaft straight line of spherical bearing seating.

Shaft dia. (mm) d	Dimensions (mm) H	A	r	B	S	Unit No.	Housing No.	No.	Applicable bearing Basic load ratings (kN) C_r	C_{0r}	Factor f_0	(Refer.) Unit mass (kg)
55	125	35	2.5	55.6	22.2	UCC211	C211	UC211	43.4	29.4	14.4	2.2
	150	42	2.5	65.1	25.4	UCCX11	CX11	UCX11	52.4	36.2	14.4	4.0
	150	44	3	66	25	UCC311	C311	UC311	71.6	45.0	13.2	3.9
60	130	38	2.5	65.1	25.4	UCC212	C212	UC212	52.4	36.2	14.4	2.6
	160	44	2.5	65.1	25.4	UCCX12	CX12	UCX12	57.2	40.1	14.4	4.6
	160	46	3	71	26	UCC312	C312	UC312	81.9	52.2	13.2	4.8
65	140	40	2.5	65.1	25.4	UCC213	C213	UC213	57.2	40.1	14.4	3.0
	170	50	3	75	30	UCC313	C313	UC313	92.7	59.9	13.2	5.7
70	180	52	3	78	33	UCC314	C314	UC314	104	68.2	13.2	6.7
75	190	55	4	82	32	UCC315	C315	UC315	113	77.2	13.2	7.8
80	200	60	4	86	34	UCC316	C316	UC316	123	86.7	13.3	9.2
85	215	64	4	96	40	UCC317	C317	UC317	133	96.8	13.3	11.7
90	225	66	4	96	40	UCC318	C318	UC318	143	107	13.3	13.1
95	240	72	4	103	41	UCC319	C319	UC319	153	119	13.3	15.8
100	260	75	4	108	42	UCC320	C320	UC320	173	141	13.2	19.6
105	260	75	4	112	44	UCC321	C321	UC321	184	153	13.2	27.0
110	300	80	5	117	46	UCC322	C322	UC322	205	180	13.2	29.2
120	320	90	5	126	51	UCC324	C324	UC324	207	185	13.5	35.9
130	340	100	6	135	54	UCC326	C326	UC326	229	214	13.6	43.0

Ball bearing units
cartridge type
UCC (with set screws)
d 140 mm



Shaft dia. (mm) d	Dimensions (mm) H	A	r	B	S	Unit No.	Housing No.	Applicable bearing No.	Basic load ratings (kN) C_r	C_{0r}	Factor f_0	(Refer.) Unit mass (kg)
140	360	100	6	145	59	UCC328	C328	UC328	253	246	13.6	52.9

[Remarks] 1) Applicable sizes of grease nipples are shown below.
A-1/4-28UNF..... 201~213, X05~X12, 305~308
A-PT 1/8 ..... 309~328
2) For bearings with double- or triple-lip seals, unit and bearing number are suffixed by L2 or L3. (UCC206JL3, UC206L3)
3) For more detailed information, refer to ball bearing for unit specification tables.

L

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Tolerances for housing

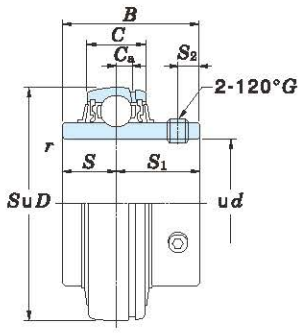
unit : mm

housing No.			3_{Hs}	3_{As}	Y
C204~ C205			0 -0.030	±0.2	0.2
C206~ C210	CX05~ CX08	C305~ C308	0 -0.035		
	CX09~ CX10	C309~ C310	0 -0.040		
C211~ C213	CX11~ CX12	C311~ C314		±0.3	0.3
		C315~ C318	0 -0.046		
		C319			0.4
		C320~ C322	0 -0.052		
		C324~ C328	0 -0.057		

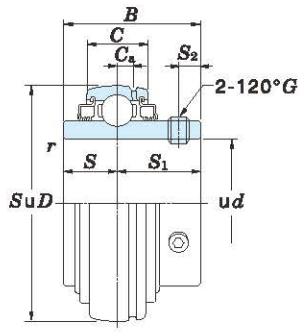
3_{Hs} : deviation of outside diameter.
3_{As} : deviation of width.
Y : circumferential runout tolerances of outside diameter in respect to shaft straight line of spherical bearing seating.

L

Ball bearings for units
cylindrical bore type (with set screws)
d 8 ~ (35) mm



UC



UC-L3

Shaft dia. (mm)	Boundary dimensions (mm)				Basic load ratings (kN)		Factor	Bearing No.	
d	D	B	C	r min.	C_r	C_{0r}	f_0	With standard seals	With triple-lip seals
8	22	12	7	0.3	3.27	1.37	12.4	SU08	—
10	26	15	8	0.3	4.55	1.95	12.3	SU000	—
12	28	15	8	0.3	5.10	2.40	13.2	SU001	—
	40	22	12	0.6	9.55	4.80	13.2	SB201	—
	47	31	16	0.6	12.8	6.65	13.2	UC201	UC201L2
15	32	16.5	9	0.3	5.60	2.85	13.9	SU002	—
	40	22	12	0.6	9.55	4.80	13.2	SB202	—
	47	31	16	0.6	12.8	6.65	13.2	UC202	UC202L2
17	35	17.5	10	0.3	6.00	3.25	14.4	SU003	—
	40	22	12	0.6	9.55	4.80	13.2	SB203	—
	47	31	16	0.6	12.8	6.65	13.2	UC203	UC203L2
20	42	21	12	0.6	9.40	5.05	13.9	SU004	—
	47	25	14	1	12.8	6.65	13.2	SB204	—
	47	31	16	1	12.8	6.65	13.2	UC204	UC204L2
25	47	22	12	0.6	10.1	5.85	14.5	SU005	—
	52	27	15	1	14.0	7.85	13.9	SB205	—
	52	34.1	17	1	14.0	7.85	13.9	UC205	UC205L2
	62	38	22	1.1	21.2	10.9	13.2	UC305	—
	62	38.1	19	1	19.5	11.3	13.9	UCX05	UCX05L3
30	55	24.5	13	1	13.2	8.25	14.7	SU006	—
	62	30	16	1	19.5	11.3	13.9	SB206	—
	62	38.1	19	1	19.5	11.3	13.9	UC206	UC206L3
	72	42.9	20	1	25.7	15.4	13.9	UCX06	UCX06L3
	72	43	24	1.1	26.7	15.0	13.3	UC306	—
35	72	32	17	1.1	25.7	15.4	13.9	SB207	—

[Remarks] 1) SU type bearings are ball bearings for compact series units.
2) UC201 to UC205 are with double-lip seals.

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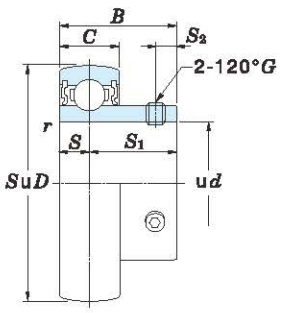

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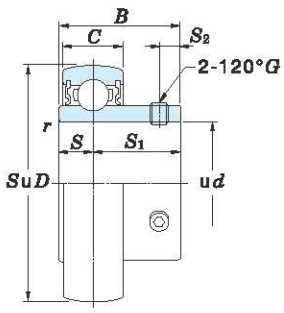
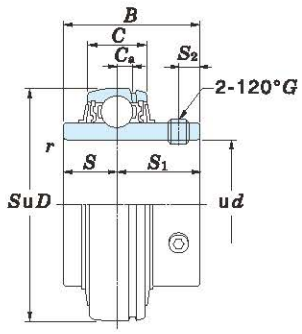


SU

Dimensions (mm)				Set screw size	(Refer.) Mass (kg)
C_a	S	S_1	S_2	G	
—	3.5	8.5	2.8	M3×0.35	0.012
—	5	10	3	M3×0.35	0.024
—	5	10	3	M3×0.35	0.026
—	6	16	4	M5×0.5	0.10
4	12.7	18.3	5	M6×0.75	0.21
—	5.5	11	3.3	M4×0.5	0.038
—	6	16	4	M5×0.5	0.10
4	12.7	18.3	5	M6×0.75	0.19
—	6	11.5	3.3	M4×0.5	0.050
—	6	16	4	M5×0.5	0.10
4	12.7	18.3	5	M6×0.75	0.18
—	7	14	4	M5×0.5	0.080
—	7	18	5	M6×0.75	0.15
4	12.7	18.3	5	M6×0.75	0.16
—	7	15	4.5	M5×0.5	0.10
—	7.5	19.5	5.5	M6×0.75	0.18
3.5	14.3	19.8	5.5	M6×0.75	0.20
5	15	23	6	M6×0.75	0.45
4.5	15.9	22.2	6	M6×0.75	0.39
—	7.5	17	5.5	M5×0.5	0.15
—	8	22	6	M6×0.75	0.27
4.5	15.9	22.2	6	M6×0.75	0.32
4.5	17.5	25.4	6.5	M8×1	0.58
5.5	17	26	6	M6×0.75	0.56
—	8.5	23.5	6	M6×0.75	0.42

L

Ball bearings for units
cylindrical bore type (with set screws)
d　(35) ~ (75) mm



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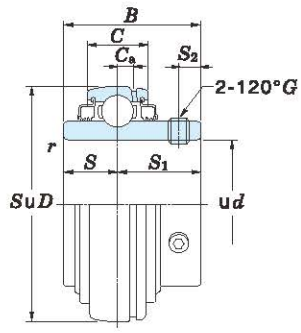

UC-L3

Shaft dia. (mm)	Boundary dimensions (mm)				Basic load ratings (kN)		Factor	Bearing No.	
d	D	B	C	r min.	C_r	C_{0r}	f_0	With standard seals	With triple-lip seals
35	72	42.9	20	1.1	25.7	15.4	13.9	UC207	UC207L3
	80	48	26	1.5	33.4	19.3	13.2	UC307	UC307L3
	80	49.2	21	1.1	29.1	17.8	14.0	UCX07	UCX07L3
40	80	34	18	1.1	29.1	17.8	14.0	SB208	—
	80	49.2	21	1.1	29.1	17.8	14.0	UC208	UC208L3
	85	49.2	22	1.1	32.7	20.3	14.0	UCX08	UCX08L3
	90	52	28	1.5	40.7	24.0	13.2	UC308	UC308L3
45	85	49.2	22	1.1	32.7	20.3	14.0	UC209	UC209L3
	90	51.6	24	1.1	35.1	23.3	14.4	UCX09	UCX09L3
	100	57	30	1.5	48.9	29.5	13.3	UC309	UC309L3
50	90	51.6	24	1.1	35.1	23.3	14.4	UC210	UC210L3
	100	55.6	25	1.1	43.4	29.4	14.4	UCX10	UCX10L3
	110	61	32	2	62.0	38.3	13.2	UC310	UC310L3
55	100	55.6	25	1.5	43.4	29.4	14.4	UC211	UC211L3
	110	65.1	27	1.5	52.4	36.2	14.4	UCX11	UCX11L3
	120	66	34	2	71.6	45.0	13.2	UC311	UC311L3
60	110	65.1	27	1.5	52.4	36.2	14.4	UC212	UC212L3
	120	65.1	28	1.5	57.2	40.1	14.4	UCX12	UCX12L3
	130	71	36	2.1	81.9	52.2	13.2	UC312	UC312L3
65	120	65.1	28	1.5	57.2	40.1	14.4	UC213	UC213L3
	125	74.6	30	1.5	62.2	44.1	14.5	UCX13	UCX13L3
	140	75	38	2.1	92.7	59.9	13.2	UC313	UC313L3
70	125	74.6	30	1.5	62.2	44.1	14.5	UC214	UC214L3
	130	77.8	32	1.5	67.4	48.3	14.5	UCX14	UCX14L3
	150	78	40	2.1	104	68.2	13.2	UC314	UC314L3
75	130	77.8	32	1.5	67.4	48.3	14.5	UC215	UC215L3

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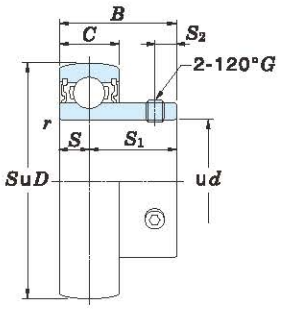

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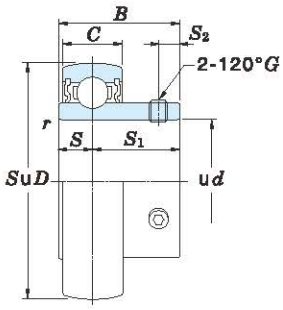
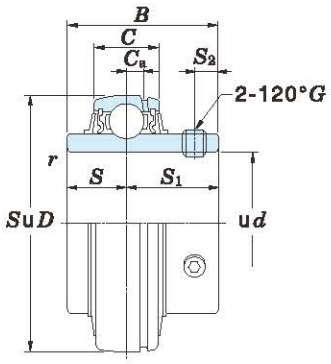


SU

	Dimensions (mm)				Set screw size	(Refer.) Mass (kg)
	C_a	S	S_1	S_2	G	
	4.5	17.5	25.4	6.5	M8×1	0.48
	5.5	19	29	8	M8×1	0.71
	4.5	19	30.2	8	M8×1	0.75
	—	9	25	8	M8×1	0.60
	4.5	19	30.2	8	M8×1	0.64
	5	19	30.2	8	M8×1	0.83
	6	19	33	10	M10×1.25	1.00
	5	19	30.2	8	M8×1	0.68
	6	19	32.6	9	M10×1.25	0.95
	6.5	22	35	10	M10×1.25	1.33
	6	19	32.6	9	M10×1.25	0.80
	5.5	22.2	33.4	9	M10×1.25	1.29
	7	22	39	12	M12×1.5	1.69
	5.5	22.2	33.4	9	M10×1.25	1.11
	6	25.4	39.7	10.5	M10×1.25	1.80
	7	25	41	12	M12×1.5	1.90
	6	25.4	39.7	10.5	M10×1.25	1.54
	6.5	25.4	39.7	12	M12×1.5	2.05
	6.5	26	45	12	M12×1.5	2.60
	6.5	25.4	39.7	12	M12×1.5	1.86
	6	30.2	44.4	12	M12×1.5	2.52
	7	30	45	12	M12×1.5	3.16
	6	30.2	44.4	12	M12×1.5	2.05
	7	33.3	44.5	12	M12×1.5	2.74
	7.5	33	45	12	M12×1.5	3.90
	7	33.3	44.5	12	M12×1.5	2.21

Ball bearings for units
cylindrical bore type (with set screws)
d (75) ~ 140 mm



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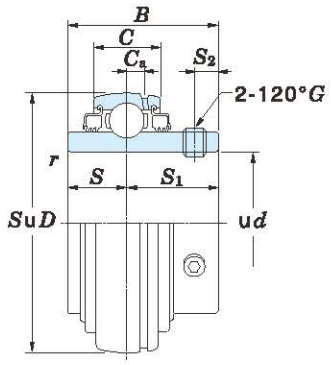

UC-L3

Shaft dia. (mm)	Boundary dimensions (mm)				Basic load ratings (kN)		Factor	Bearing No.	
d	D	B	C	r min.	C_r	C_{0r}	f_0	With standard seals	With triple-lip seals
75	140	82.6	33	1.5	72.7	53.0	14.6	UCX15	UCX15L3
	160	82	42	2.1	113	77.2	13.2	UC315	UC315L3
80	140	82.6	33	2	72.7	53.0	14.6	UC216	UC216L3
	150	85.7	35	2	84.0	61.9	14.5	UCX16	UCX16L3
	170	86	44	2.1	123	86.7	13.3	UC316	UC316L3
85	150	85.7	35	2	84.0	61.9	14.5	UC217	UC217L3
	160	96	38	2	96.1	71.5	14.5	UCX17	UCX17L3
	180	96	46	3	133	96.8	13.3	UC317	UC317L3
90	160	96	38	2	96.1	71.5	14.5	UC218	UC218L3
	170	104	40	2	109	81.9	14.4	UCX18	—
	190	96	48	3	143	107	13.3	UC318	UC318L3
95	200	103	50	3	153	119	13.3	UC319	UC319L3
100	190	117.5	43	2.1	133	105	14.4	UCX20	—
	215	108	54	3	173	141	13.2	UC320	UC320L3
105	225	112	56	3	184	153	13.2	UC321	—
110	240	117	60	3	205	180	13.2	UC322	UC322L3
120	260	126	64	3	207	185	13.5	UC324	UC324L3
130	280	135	68	4	229	214	13.6	UC326	UC326L3
140	300	145	72	4	253	246	13.6	UC328	UC328L3

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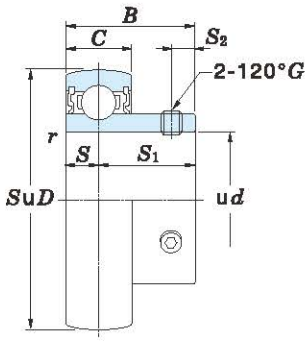

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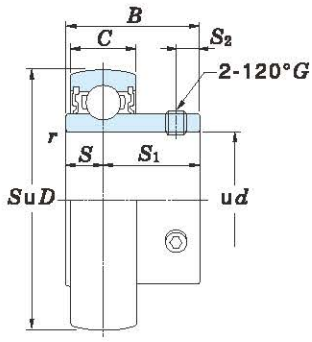


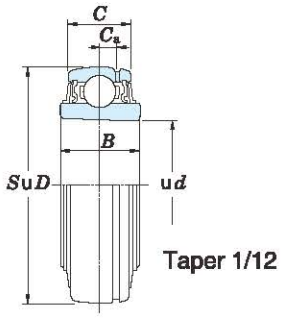
SU

	Dimensions (mm)				Set screw size	(Refer.) Mass (kg)
	C_a	S	S_1	S_2	G	
	7.5	33.3	49.3	14	M12×1.5	3.41
	6.5	32	50	14	M14×1.5	4.70
	7.5	33.3	49.3	14	M12×1.5	2.79
	7.5	34.1	51.6	14	M12×1.5	3.87
	7	34	52	14	M14×1.5	5.60
	7.5	34.1	51.6	14	M12×1.5	3.45
	8	39.7	56.3	15	M12×1.5	5.05
	8	40	56	16	M16×1.5	6.90
	8	39.7	56.3	15	M12×1.5	4.35
	8.5	42.9	61.1	16	M14×1.5	6.00
	8.5	40	56	16	M16×1.5	7.87
	8.5	41	62	18	M16×1.5	8.91
	8.5	49.2	68.3	18	M16×1.5	8.56
	9	42	66	20	M18×1.5	11.2
	9	44	68	20	M18×1.5	12.7
	10	46	71	20	M18×1.5	15.1
	11	51	75	20	M18×1.5	19.0
	12	54	81	20	M20×1.5	23.6
	13	59	86	20	M20×1.5	29.4

L

Ball bearings for units
tapered bore type (with adapter)

d_1 20 ~ 55 mm



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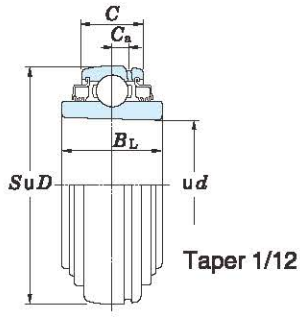

UK...L3
(with triple-lip seals)

Shaft dia. (mm)	Boundary dimensions (mm)						Basic load ratings (kN)		Factor	Bearing No.		(Refer.)Mass (kg)	
d_1	d	D	B	B_L	C	C_a	C_r	C_{0r}	f_0	With standard seals	With triple-lip seals	With standard seals	With triple-lip seals
20	25	52	21	24	17	5	14.0	7.85	13.9	UK205	UK205L2	0.16	0.18
	25	62	23	—	19	5	19.5	11.3	13.9	UKX05	—	0.27	—
	25	62	27	—	22	6	21.2	10.9	12.6	UK305	—	0.40	—
25	30	62	23	27	19	5	19.5	11.3	13.9	UK206	UK206L3	0.25	0.29
	30	72	26	—	20	5.5	25.7	15.4	13.9	UKX06	—	0.43	—
	30	72	30	—	24	6.5	26.7	15.0	13.3	UK306	—	0.47	—
30	35	72	26	30	20	5.5	25.7	15.4	13.9	UK207	UK207L3	0.37	0.43
	35	80	27	—	21	6	29.1	17.8	14.0	UKX07	—	0.53	—
	35	80	33	33	26	7.5	33.4	19.3	13.2	UK307	UK307L3	0.60	—
35	40	80	27	34	21	6	29.1	17.8	14.0	UK208	UK208L3	0.47	0.58
	40	85	29	—	22	6	32.7	20.3	14.0	UKX08	—	0.58	—
	40	90	35	35	28	8	40.7	24.0	13.2	UK308	UK308L3	0.80	—
40	45	85	29	36	22	6	32.7	20.3	14.0	UK209	UK209L3	0.52	0.65
	45	90	29	—	24	6	35.1	23.3	14.4	UKX09	—	0.67	—
	45	100	38	38	30	8.5	48.9	29.5	13.3	UK309	UK309L3	1.08	—
45	50	90	29	36	24	6	35.1	23.3	14.4	UK210	UK210L3	0.59	0.65
	50	100	31	—	25	7	43.4	29.4	14.4	UKX10	—	0.89	—
	50	110	40	40	32	9	62.0	38.3	13.2	UK310	UK310L3	1.38	—
50	55	100	31	40	25	7	43.4	29.4	14.4	UK211	UK211L3	0.80	1.09
	55	110	33	—	27	7.5	52.4	36.2	14.4	UKX11	—	1.15	—
	55	120	43	43	34	10	71.6	45.0	13.2	UK311	UK311L3	1.78	—
55	60	110	33	47	27	7.5	52.4	36.2	14.4	UK212	UK212L3	1.02	1.41
	60	120	36	—	28	7.5	57.2	40.1	14.4	UKX12	—	1.45	—
	60	130	47	47	36	11.5	81.9	52.2	13.2	UK312	UK312L3	2.06	—

[Remarks] 1) For bearings with adapters, bearing numbers shown in dimension tables are suffixed by applicable adapter assembly numbers.
(UK206+H306X, UK206L3+H2306X)
2) Adapter assemblies applicable to UK 2 series are classified as follows.
UK2..... H3 series
UK2...L3 ..... H23 series

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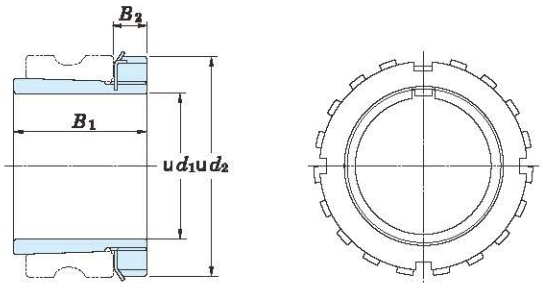

Adapter assembly

Applicable adapter assembly (H3 series[1])						Applicable adapter assembly (H23 series[1])					
No.	Dimensions(mm) B_1	B_2	d_2	Mass (kg)	Sleeve No.	No.	Dimensions(mm) B_1	B_2	d_2	Mass (kg)	Sleeve No.
H305X	29	8	38	0.085	A305X	H2305X	35	8	38	0.097	A2305X
—	—	—	—	—	—	H2305X	35	8	38	0.097	A2305X
—	—	—	—	—	—	H2305X	35	8	38	0.097	A2305X
H306X	31	8	45	0.11	A306X	H2306X	38	8	45	0.13	A2306X
—	—	—	—	—	—	H2306X	38	8	45	0.13	A2306X
—	—	—	—	—	—	H2306X	38	8	45	0.13	A2306X
H307X	35	9	52	0.16	A307X	H2307X	43	9	52	0.19	A2307X
—	—	—	—	—	—	H2307X	43	9	52	0.19	A2307X
—	—	—	—	—	—	H2307X	43	9	52	0.19	A2307X
H308X	36	10	58	0.20	A308X	H2308X	46	10	58	0.24	A2308X
—	—	—	—	—	—	H2308X	46	10	58	0.24	A2308X
—	—	—	—	—	—	H2308X	46	10	58	0.24	A2308X
H309X	39	11	65	0.27	A309X	H2309X	50	11	65	0.31	A2309X
—	—	—	—	—	—	H2309X	50	11	65	0.31	A2309X
—	—	—	—	—	—	H2309X	50	11	65	0.31	A2309X
H310X	42	12	70	0.32	A310X	H2310X	55	12	70	0.39	A2310X
—	—	—	—	—	—	H2310X	55	12	70	0.39	A2310X
—	—	—	—	—	—	H2310X	55	12	70	0.39	A2310X
H311X	45	12	75	0.37	A311X	H2311X	59	12	75	0.45	A2311X
—	—	—	—	—	—	H2311X	59	12	75	0.45	A2311X
—	—	—	—	—	—	H2311X	59	12	75	0.45	A2311X
H312X	47	13	80	0.42	A312X	H2312X	62	13	80	0.51	A2312X
—	—	—	—	—	—	H2312X	62	13	80	0.51	A2312X
—	—	—	—	—	—	H2312X	62	13	80	0.51	A2312X

3) UK205 is with double-lip seals.
4) Please consult with JTEKT when using adapter with inch series bore diameter.

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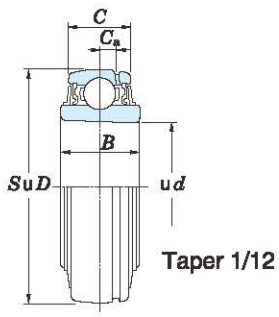
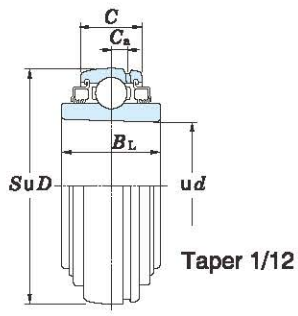
Ball bearings for units
tapered bore type (with adapter)

d_1 60 ~ 125 mm



UK



UK...L3
(with triple-lip seals)

Shaft dia. (mm)	Boundary dimensions (mm)						Basic load ratings (kN)		Factor	Bearing No.		(Refer.)Mass (kg)	
d_1	d	D	B	B_L	C	C_a	C_r	C_{0r}	f_0	With standard seals	With triple-lip seals	With standard seals	With triple-lip seals
60	65	120	36	47	28	7.5	57.2	40.1	14.4	UK213	UK213L3	1.34	1.67
	65	125	40	—	30	9	62.2	44.1	14.5	UKX13	—	1.62	—
	65	140	49	49	38	12	92.7	59.9	13.2	UK313	UK313L3	2.71	—
65	75	130	40	51	32	9	67.4	48.3	14.5	UK215	UK215L3	1.50	1.99
	75	140	42	—	33	9	72.7	53.0	14.6	UKX15	—	2.10	—
	75	160	55	55	42	14.5	113	77.2	13.2	UK315	UK315L3	3.80	—
70	80	140	42	55	33	9	72.7	53.0	14.6	UK216	UK216L3	1.96	2.56
	80	150	44	—	35	10	84.0	61.9	14.5	UKX16	—	2.64	—
	80	170	55	55	44	15	123	86.7	13.3	UK316	UK316L3	4.39	—
75	85	150	44	57	35	10	84.0	61.9	14.5	UK217	UK217L3	2.42	3.10
	85	160	48	—	38	11	96.1	71.5	14.5	UKX17	—	3.25	—
	85	180	60	60	46	15	133	96.8	13.3	UK317	UK317L3	5.30	—
80	90	160	48	63	38	11	96.1	71.5	14.5	UK218	UK218L3	2.90	3.77
	90	170	50	—	40	11.5	109	81.9	14.4	UKX18	—	3.80	—
	90	190	60	60	48	15.5	143	107	13.3	UK318	UK318L3	6.20	—
85	95	200	66	66	50	16.5	153	119	13.3	UK319	UK319L3	7.31	—
90	100	190	54	—	43	13	133	105	14.4	UKX20	—	5.36	—
	100	215	68	68	54	18	173	141	13.2	UK320	UK320L3	8.70	—
100	110	240	78	78	60	20	205	180	13.2	UK322	UK322L3	12.2	—
110	120	260	87	87	64	21	207	185	13.5	UK324	UK324L3	16.1	—
115	130	280	87	87	68	22	229	214	13.6	UK326	UK326L3	18.8	—
125	140	300	97	97	72	23	253	246	13.6	UK328	UK328L3	23.9	—

[Remarks] 1) For bearings with adapters, bearing numbers shown in dimension tables are suffixed by applicable adapter assembly numbers.
(UK206+H306X, UK206L3+H2306X)
2) Adapter assemblies applicable to UK 2 series are classified as follows.
UK2..... H3 series
UK2...L3 ..... H23 series

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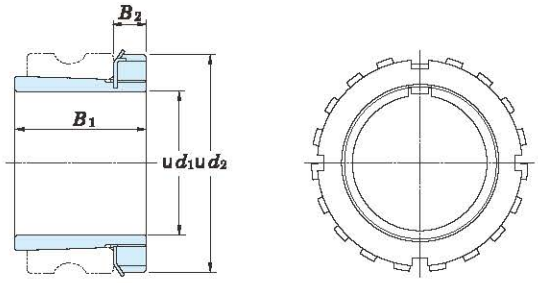
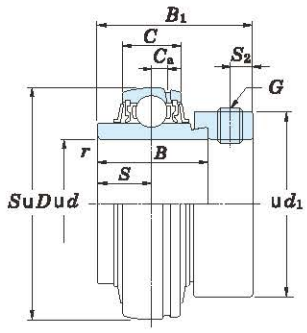


Adapter assembly

Applicable adapter assembly (H3 series[1])						Applicable adapter assembly (H23 series[1])					
No.	Dimensions(mm) B_1	B_2	d_2	Mass (kg)	Sleeve No.	No.	Dimensions(mm) B_1	B_2	d_2	Mass (kg)	Sleeve No.
H313X	50	14	85	0.49	A313X	H2313X	65	14	85	0.59	A2313X
—	—	—	—	—	—	H2313X	65	14	85	0.59	A2313X
—	—	—	—	—	—	H2313X	65	14	85	0.59	A2313X
H315X	55	15	98	0.89	A315X	H2315X	73	15	98	1.11	A2315X
—	—	—	—	—	—	H2315X	73	15	98	1.11	A2315X
—	—	—	—	—	—	H2315X	73	15	98	1.11	A2315X
H316X	59	17	105	1.09	A316X	H2316X	78	17	105	1.34	A2316X
—	—	—	—	—	—	H2316X	78	17	105	1.34	A2316X
—	—	—	—	—	—	H2316X	78	17	105	1.34	A2316X
H317X	63	18	110	1.24	A317X	H2317X	82	18	110	1.52	A2317X
—	—	—	—	—	—	H2317X	82	18	110	1.52	A2317X
—	—	—	—	—	—	H2317X	82	18	110	1.52	A2317X
H318X	65	18	120	1.45	A318X	H2318X	86	18	120	1.70	A2318X
—	—	—	—	—	—	H2318X	86	18	120	1.70	A2318X
—	—	—	—	—	—	H2318X	86	18	120	1.70	A2318X
—	—	—	—	—	—	H2319X	90	19	125	1.99	A2319X
—	—	—	—	—	—	H2320X	97	20	130	2.28	A2320X
—	—	—	—	—	—	H2320X	97	20	130	2.28	A2320X
—	—	—	—	—	—	H2322X	105	21	145	2.87	A2322X
—	—	—	—	—	—	H2324X	112	22	155	3.32	A2324X
—	—	—	—	—	—	H2326	121	23	165	4.82	A2326
—	—	—	—	—	—	H2328	131	24	180	5.86	A2328

3) Please consult with JTEKT when using adapter with inch series bore diameter.
ɜter.

Ball bearings for units
cylindrical bore type (with eccentric locking collar)
d 20 ~ 60 mm



NA

Shaft dia. (mm)	Boundary dimensions (mm)					Basic load ratings (kN)		Factor	Bearing No.	
d	D	B	B_1	C	r min.	C_r	C_{0r}	f_0		
20	47	34.2	43.7	16	1	12.8	6.65	13.2	NA204	
25	52	34.9	44.4	17	1	14.0	7.85	13.9	NA205	
30	62	36.5	48.4	19	1	19.5	11.3	13.9	NA206	
35	72	37.6	51.1	20	1.1	25.7	15.4	13.9	NA207	
40	80	42.8	56.3	21	1.1	29.1	17.8	14.0	NA208	
45	85	42.8	56.3	22	1.1	32.7	20.3	14.0	NA209	
50	90	49.2	62.7	24	1.1	35.1	23.3	14.4	NA210	
55	100	55.5	71.4	25	1.5	43.4	29.4	14.4	NA211	
60	110	61.9	77.8	27	1.5	52.4	36.2	14.4	NA212	

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	Dimensions (mm)				Set screw size	(Refer.) Mass (kg)
	C_a	S	S_2	d_1	G	
	4	17.1	4.8	33.3	M6×0.75	0.22
	5	17.5	4.8	38.1	M6×0.75	0.25
	5	18.3	6	44.5	M8×1	0.41
	5.5	18.8	6.8	55.6	M8×1	0.61
	6	21.4	6.8	60.3	M8×1	0.78
	6	21.4	6.8	63.5	M8×1	0.85
	6	24.6	6.8	69.9	M8×1	1.01
	7	27.8	8	76.2	M10×1.25	1.39
	7.5	31	8	84.2	M10×1.25	1.87

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KOYO

M

【SN Plummer blocks】

SN連座軸承系列

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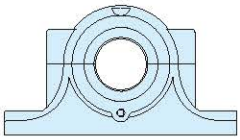
Plummer blocks

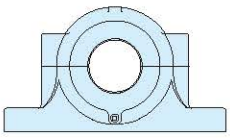
Plummer blocks consist of self-aligning ball bearings or spherical roller bearings, and a housing in which the bearings are installed. The housing varies in shape. Having a large load capacity and being easy to handle, plummer blocks are employed in a variety of industrial machines, such as carrying machines.

Split type : standard



Bore diameter **20 – 170** mm

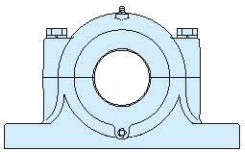
Split type : flat bottom



Bore diameter **20 – 140** mm

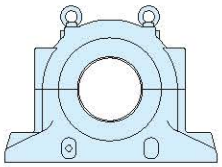
Split type : flat bottom

(different bore diameter type/
large bore diameter type)



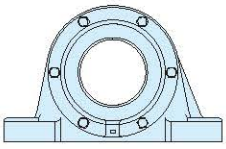
Bore diameter **25 – 160** mm

Split type : large size



Bore diameter **150 – 360** mm

One-piece type



Bore diameter **20 – 170** mm

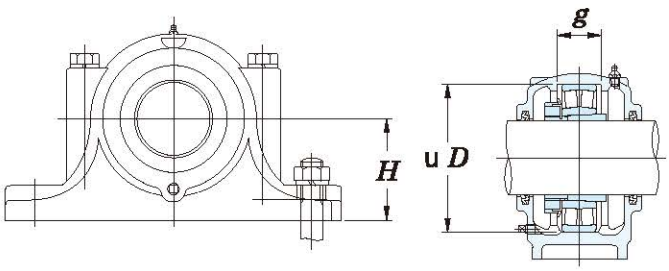
Table 1 Plummer block types

Housing type		Applicable bearing series (plummer block unit series number)	
		Self-aligning ball bearing	Spherical roller bearing
Split type : standard (SN) 	SN5	12K(SN15), 22K(SN25)	222K(SN225), 232K(SN235)
	SN6	13K(SN16), 23K(SN26)	213K(SN216), 223K(SN226)
	SN33	—	230K(SN233)
	SN34	—	231K(SN234)
		Small-or medium-size ; most general	
Split type : flat bottom (SSN) 	SSN5	12K(SSN15), 22K(SSN25)	222K(SSN225), 232K(SSN235)
	SSN6	13K(SSN16), 23K(SSN26)	213K(SSN216), 223K(SSN226)
	* SSN2	12 (SSN12), 22 (SSN22)	222 (SSN222), 232 (SSN232)
	* SSN3	13 (SSN13), 23 (SSN23)	213 (SSN213), 223 (SSN223)
	** SSN2B	12 (SSN12B), 22 (SSN22B)	222 (SSN222B), 232 (SSN232B)
	** SSN3B	13 (SSN13B), 23 (SSN23B)	213 (SSN213B), 223 (SSN223B)
		¡ Has a flat bottom and is more heavy-duty than the SN type. ¡ Optionally, bolt holes can be provided.	
Split type : large size (SD) 	SD5	—	222K(SD225)
	SD6	—	223K(SD226)
	SD31L	—	231K(SD231L)
	SD33	—	230K(SD233)
	SD34	—	231K(SD234)
		Large size and most suitable for applications which involve heavy loading.	
One-piece type (V) 	V5	12K(V15), 22K(V25)	222K(V225), 232K(V235)
	V6	13K(V16), 23K(V26)	213K(V216), 223K(V226)
	* V2	12 (V12), 22 (V22)	222 (V222), 232 (V232)
	* V3	13 (V13), 23 (V23)	213 (V213), 223 (V223)
		¡ Has a monolithic housing. ¡ Excellent processing performance and high rigidity.	

[Notes] * "Different bore diameter type," whose bore diameter of housing or cover differs from side to side.
A cylindrical bore bearing is attached to a stepped shaft with a locknut and lockwasher.
** "Large bore diameter type," whose housing or cover has a large-diameter bore.
A cylindrical bore bearing is attached to the small side of a stepped shaft with a concentric collar.

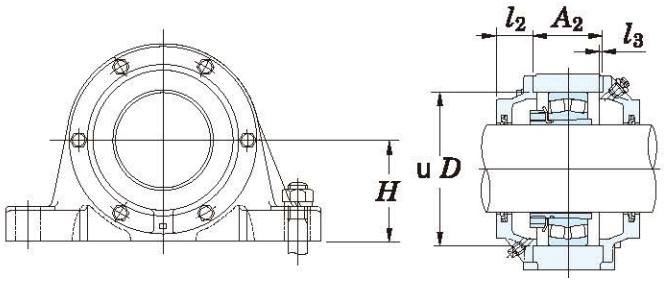
[Remark] This catalog includes major types of plummer blocks which are boxed in the table above.
For other series and special series, refer to separate catalogs.

Table 2 Split plummer block housing dimensional tolerance (JIS B 1551)



Housing series	Bearing seating bore diameter D	Bearing seating width g	Center height H
SN5, SN6 SN33, SN34 SSN5, SSN6 SSN2, SSN3 SD5, SD6 SD33, SD34 SD31L	H8	H13	h13

Table 3 One-piece plummer block housing dimensional tolerance (BAS 188)

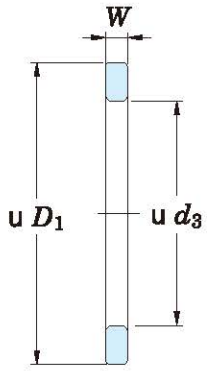


Unit : mm

Housing series	Bearing seating bore diameter D	Bearing seating width A_2	Center height H	Cover size l_2	Cover spigot joint height l_3
V5, V6 V2, V3	H7	+ 0.2 0	h11	± 1	0 − 0.2

[Remark] The degree of parallelism between the bottom surface and bearing seating center line should be 1/2 000 or less.

Table 4 Stabilizing ring dimensional tolerance



Unit : mm

Outside diameter D_1	Bore diameter d_3	Width W
h12	(SR47 × 5 to SR130 × 12.5) ± 0.8	0 − 0.2
	(SR140 × 8.5 to SR340 × 10) ± 1.2	

[Remark] Stabilizing ring is installed in bearing seating of plummer block, on the fixed side. It prevents bearing from moving in the axial direction.

Refer to Table 7-3 on pp. A 54 to A 57 for the dimensional tolerance of self-aligning ball bearings and spherical roller bearings which are used with plummer blocks. Refer to Table 7-11 on p. A 70 for tapered bore tolerances.

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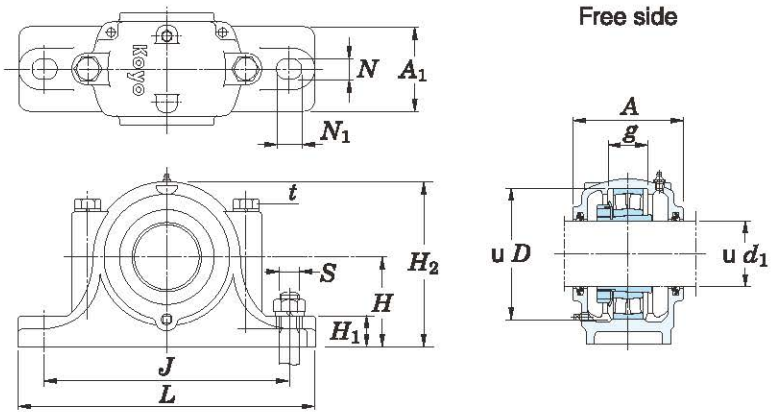
Plummer blocks
split type, standard
SN 5, 6, 33, 34
d_1 20 ~ (60) mm



Shaft dia. (mm)	Dimensions (mm)												Bolt size	Housing No.
d_1	D	H	J	L	A	A_1	H_1	H_2	N	N_1	g	t Bolt size	S	
20	52	40	130	165	67	46	22	75	15	20	25	M8	M12	SN505
	62	50	150	185	80	52	22	90	15	20	34	M8	M12	SN605
25	62	50	150	185	77	52	22	90	15	20	30	M8	M12	SN506
	72	50	150	185	82	52	22	95	15	20	37	M10	M12	SN606
30	72	50	150	185	82	52	22	95	15	20	33	M10	M12	SN507
	80	60	170	205	90	60	25	110	15	20	41	M10	M12	SN607
35	80	60	170	205	85	60	25	110	15	20	33	M10	M12	SN508
	90	60	170	205	95	60	25	115	15	20	43	M10	M12	SN608
40	85	60	170	205	85	60	25	112	15	20	31	M10	M12	SN509
	100	70	210	255	105	70	28	130	18	23	46	M12	M16	SN609
45	90	60	170	205	90	60	25	115	15	20	33	M10	M12	SN510
	110	70	210	255	115	70	30	135	18	23	50	M12	M16	SN610
50	100	70	210	255	95	70	28	130	18	23	33	M12	M16	SN511
	120	80	230	275	120	80	30	150	18	23	53	M12	M16	SN611
55	110	70	210	255	105	70	30	135	18	23	38	M12	M16	SN512
	130	80	230	280	125	80	30	155	18	23	56	M12	M16	SN612
60	120	80	230	275	110	80	30	150	18	23	43	M12	M16	SN513

[Note] 1) Dimension x shows the shear between center of bearing and housing when one stabilizing ring is used. The value is 1/2 the width dimension of stabilizing ring.
When mounting two stabilizing rings, x becomes equal to 0, since they are mounted to each side of bearing.

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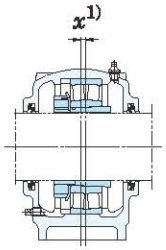
Fixed side
(When one stabilizing ring used



Stabilizing ring

(Refer.) Housing mass (kg)	Grease nipple size	Drain plug size	Applicable bearing No. Self-aligning ball brg.	Applicable bearing No. Spherical roller brg.	Applicable adapter ass'y No.	Applicable stabilizing ring No. Outside dia×Width	Applicable stabilizing ring Qty.	Applicable oil seal No. MZ
1.2	R 1/8	R 1/8	1205K 2205K	— 22205RHRK	H205X H305X	SR52×5 SR52×7	2 1	MZ05
1.8	R 1/8	R 1/8	1305K 2305K	—	H305X H2305X	SR62×8.5 SR62×10	2 1	MZ05
1.9	R 1/8	R 1/8	1206K 2206K	— 22206RHRK	H206X H306X	SR62×7 SR62×10	2 1	MZ06
2.1	R 1/8	R 1/8	1306K 2306K	—	H306X H2306X	SR72×9 SR72×10	2 1	MZ06
2.3	R 1/8	R 1/8	1207K 2207K	— 22207RHRK	H207X H307X	SR72×8 SR72×10	2 1	MZ07
2.6	R 1/8	R 1/8	1307K 2307K	—	H307X H2307X	SR80×10 SR80×10	2 1	MZ07
2.4	R 1/8	R 1/8	1208K 2208K	— 22208RHRK	H208X H308X	SR80×7.5 SR80×10	2 1	MZ08
2.8	R 1/8	R 1/8	1308K 2308K	21308RHK 22308RHRK	H308X H2308X	SR90×10 SR90×10	2 1	MZ08
2.7	R 1/8	R 1/8	1209K 2209K	— 22209RHRK	H209X H309X	SR85×6 SR85×8	2 1	MZ09
4.3	R 1/8	R 1/8	1309K 2309K	21309RHK 22309RHRK	H309X H2309X	SR100×10.5 SR100×10	2 1	MZ09
3.5	R 1/8	R 1/8	1210K 2210K	— 22210RHRK	H210X H310X	SR90×6.5 SR90×10	2 1	MZ10
4.7	R 1/8	R 1/8	1310K 2310K	21310RHK 22310RHRK	H310X H2310X	SR110×11.5 SR110×10	2 1	MZ10
3.7	R 1/8	R 1/8	1211K 2211K	— 22211RHRK	H211X H311X	SR100×6 SR100×8	2 1	MZ11
5.8	R 1/8	R 1/8	1311K 2311K	21311RHK 22311RHRK	H311X H2311X	SR120×12 SR120×10	2 1	MZ11
4.4	R 1/8	R 1/8	1212K 2212K	— 22212RHRK	H212X H312X	SR110×8 SR110×10	2 1	MZ12
6.4	R 1/8	R 1/8	1312K 2312K	21312RHK 22312RHRK	H312X H2312X	SR130×12.5 SR130×10	2 1	MZ12
5.4	R 1/8	R 1/8	1213K 2213K	— 22213RHRK	H213X H313X	SR120×10 SR120×12	2 1	MZ13

[Remark] Housings shown below are equipped with eyebolts.
SN524~SN532, SN620~SN632, SN3328~SN3338, SN3426~SN3438

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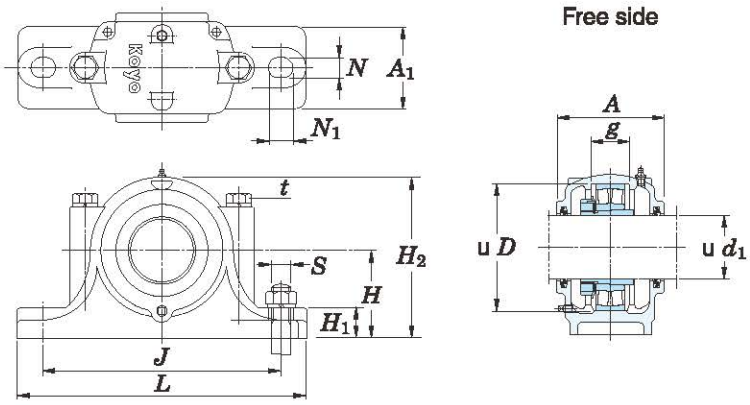
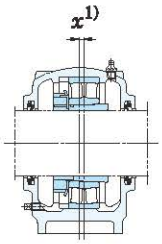
Plummer blocks
split type, standard
SN 5, 6, 33, 34
d_1 (60) ~ (110) mm



Shaft dia. (mm)	Dimensions (mm)												Bolt size	Housing No.
d_1	D	H	J	L	A	A_1	H_1	H_2	N	N_1	g	t Bolt size	S	
60	140	95	260	315	130	90	32	175	22	27	58	M16	M20	SN613
65	130	80	230	280	115	80	30	155	18	23	41	M12	M16	SN515
	160	100	290	345	140	100	35	195	22	27	65	M16	M20	SN615
70	140	95	260	315	120	90	32	175	22	27	43	M16	M20	SN516
	170	112	290	345	145	100	35	212	22	27	68	M16	M20	SN616
75	150	95	260	320	125	90	32	185	22	27	46	M16	M20	SN517
	180	112	320	380	155	110	40	223	26	32	70	M20	M24	SN617
80	160	100	290	345	145	100	35	195	22	27	62.4	M16	M20	SN518
	190	112	320	380	160	110	40	230	26	32	74	M20	M24	SN618
85	170	112	290	345	140	100	35	210	22	27	53	M16	M20	SN519
	200	125	350	410	170	120	45	250	26	32	77	M20	M24	SN619
90	180	112	320	380	160	110	40	223	26	32	70.3	M20	M24	SN520
	215	140	350	410	175	120	45	270	26	32	83	M20	M24	SN620
100	180	112	320	380	155	110	40	223	26	32	66	M20	M24	SN3422
	200	125	350	410	175	120	45	245	26	32	80	M20	M24	SN522
	240	150	390	450	190	130	50	300	28	36	90	M24	M24	SN622
110	180	112	320	380	150	110	40	223	26	32	56	M20	M24	SN3324

[Note] 1) Dimension x shows the shear between center of bearing and housing when one stabilizing ring is used. The value is 1/2 the width dimension of stabilizing ring.
When mounting two stabilizing rings, x becomes equal to 0, since they are mounted to each side of bearing.

Fixed side
(When one stabilizing ring used)



Stabilizing ring

(Refer.) Housing mass (kg)	Grease nipple size	Drain plug size	Applicable bearing No. Self-aligning ball brg.	Applicable bearing No. Spherical roller brg.	Applicable adapter ass'y No.	Applicable stabilizing ring No. Outside dia×Width	Applicable stabilizing ring Qty.	Applicable oil seal No. MZ
8.6	R 1/8	R 1/8	1313K 2313K	21313RHK 22313RHRK	H313X H2313X	SR140×12.5 SR140×10	2 1	MZ13
6.1	R 1/8	R 1/8	1215K 2215K	— 22215RHRK	H215X H315X	SR130×8 SR130×10	2 1	MZ15
11.8	R 1/8	R 1/8	1315K 2315K	21315RHK 22315RHRK	H315X H2315X	SR160×14 SR160×10	2 1	MZ15
8.2	R 1/8	R 1/8	1216K 2216K	— 22216RHRK	H216X H316X	SR140×8.5 SR140×10	2 1	MZ16
13.6	R 1/8	R 1/8	1316K 2316K	21316RHK 22316RHRK	H316X H2316X	SR170×14.5 SR170×10	2 1	MZ16
9.3	R 1/8	R 1/8	1217K 2217K	— 22217RHRK	H217X H317X	SR150×9 SR150×10	2 1	MZ17
16.8	R 1/8	R 1/8	1317K 2317K	21317RHK 22317RHRK	H317X H2317X	SR180×14.5 SR180×10	2 1	MZ17
12	R 1/8	R 1/8	1218K 2218K —	— 22218RHRK 23218RHK	H218X H318X H2318X	SR160×16.2 SR160×11.2 SR160×10	2 2 1	MZ18
21	R 1/4	R 1/4	1318K 2318K	— 22318RHRK	H318X H2318X	SR190×15.5 SR190×10	2 1	MZ18
13	R 1/8	R 1/8	1219K 2219K	— 22219RHRK	H219X H319X	SR170×10.5 SR170×10	2 1	MZ19
23	R 1/4	R 1/4	1319K 2319K	— 22319RHRK	H319X H2319X	SR200×16 SR200×10	2 1	MZ19
17	R 1/4	R 1/4	1220K 2220K —	— 22220RHRK 23220RHK	H220X H320X H2320X	SR180×18.1 SR180×12.1 SR180×10	2 2 1	MZ20
31	R 1/4	R 1/4	1320K 2320K	— 22320RHRK	H320X H2320X	SR215×18 SR215×10	2 1	MZ20
20	R 1/4	R 1/4	—	23122RHK	H3122X	SR180×10	1	MZ22
20	R 1/4	R 1/4	1222K 2222K —	— 22222RHRK 23222RHK	H222X H322X H2322X	SR200×21 SR200×13.5 SR200×10	2 2 1	MZ22
38	R 1/4	R 1/4	1322K 2322K	— 22322RHRK	H322X H2322X	SR240×20 SR240×10	2 1	MZ22
19	R 1/4	R 1/4	—	23024RHK	H3024	SR180×10	1	MZ24

[Remark] Housings shown below are equipped with eyebolts.
SN524~SN532, SN620~SN632, SN3328~SN3338, SN3426~SN3438

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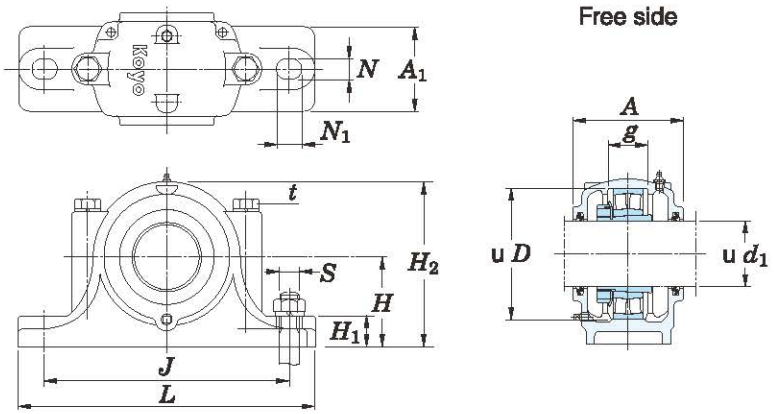
Plummer blocks
split type, standard
SN 5, 6, 33, 34
d_1 (110) ~ (140) mm



Shaft dia. (mm)	Dimensions (mm)												Bolt size	Housing No.
d_1	D	H	J	L	A	A_1	H_1	H_2	N	N_1	g	t Bolt size	S	
110	200	125	350	410	165	120	45	245	26	32	72	M20	M24	SN3424
	215	140	350	410	185	120	45	270	26	32	86	M20	M24	SN524
	260	160	450	530	200	160	60	320	33	42	96	M24	M30	SN624
115	200	125	350	410	160	120	45	245	26	32	62	M20	M24	SN3326
	210	140	350	410	170	120	45	270	26	32	74	M20	M24	SN3426
	230	150	380	445	190	130	50	290	28	36	90	M24	M24	SN526
	280	170	470	550	210	160	60	340	33	42	103	M24	M30	SN626
125	210	140	350	410	170	120	45	270	26	32	63	M20	M24	SN3328
	225	150	380	445	180	130	50	290	28	36	78	M24	M24	SN3428
	250	150	420	500	205	150	50	305	33	42	98	M24	M30	SN528
	300	180	520	610	235	170	65	365	35	45	112	M30	M30	SN628
135	225	150	380	445	175	130	50	290	28	36	66	M24	M24	SN3330
	250	150	420	500	200	150	50	305	33	42	90	M24	M30	SN3430
	270	160	450	530	220	160	60	325	33	42	106	M24	M30	SN530
	320	190	560	650	245	180	65	385	35	45	118	M30	M30	SN630
140	240	150	390	450	190	130	50	300	28	36	70	M24	M24	SN3332
	270	160	450	530	215	160	60	325	33	42	96	M24	M30	SN3432

[Note] 1) Dimension x shows the shear between center of bearing and housing when one stabilizing ring is used. The value is 1/2 the width dimension of stabilizing ring.
When mounting two stabilizing rings, x becomes equal to 0, since they are mounted to each side of bearing.

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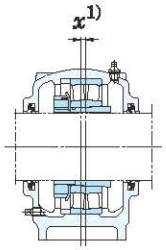
Fixed side
(When one stabilizing ring used



Stabilizing ring

	(Refer.) Housing mass (kg)	Grease nipple size	Drain plug size	Applicable bearing No. Self-aligning ball brg.	Applicable bearing No. Spherical roller brg.	Applicable adapter ass'y No.	Applicable stabilizing ring No. Outside diaxWidth	Applicable stabilizing ring Qty.	Applicable oil seal No. MZ
	22	R 1/4	R 1/4	—	23124RHK	H3124	SR200×10	1	MZ24
	23	R 1/4	R 1/4	—	22224RHRK 23224RHK	H3124 H2324	SR215×14 SR215×10	2 1	MZ24
	48	R 1/4	R 1/4	—	22324RHRK	H2324	SR260×10	1	MZ24
	21	R 1/4	R 1/4	—	23026RHK	H3026	SR200×10	1	MZ26
	29	R 1/4	R 1/4	—	23126RHK	H3126	SR210×10	1	MZ26
	33	R 1/4	R 1/4	—	22226RHRK 23226RHK	H3126 H2326	SR230×13 SR230×10	2 1	MZ26
	78	R 1/4	R 1/4	—	22326RHRK	H2326	SR280×10	1	MZ26
	28	R 1/4	R 1/4	—	23028RHK	H3028	SR210×10	1	MZ28
	36	R 1/4	R 1/4	—	23128RHK	H3128	SR225×10	1	MZ28
	40	R 1/4	R 1/4	—	22228RHRK 23228RHK	H3128 H2328	SR250×15 SR250×10	2 1	MZ28
	97	R 1/4	R 1/4	—	22328RK	H2328	SR300×10	1	MZ28
	32	R 1/4	R 1/4	—	23030RHK	H3030	SR225×10	1	MZ30
	42	R 1/4	R 1/4	—	23130RHK	H3130	SR250×10	1	MZ30
	45	R 1/4	R 1/4	—	22230RHRK 23230RHK	H3130 H2330	SR270×16.5 SR270×10	2 1	MZ30
	110	R 1/4	R 1/4	—	22330RK	H2330	SR320×10	1	MZ30
	36	R 1/4	R 1/4	—	23032RHK	H3032	SR240×10	1	MZ32
	53	R 1/4	R 1/4	—	23132RHK	H3132	SR270×10	1	MZ32

[Remark] Housings shown below are equipped with eyebolts.
SN524~SN532, SN620~SN632, SN3328~SN3338, SN3426~SN3438

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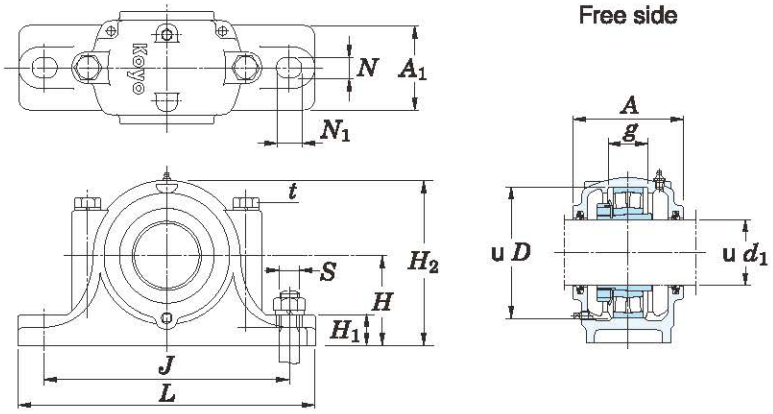
https://www.wjbmotion.com/ wjbrobot@gmail.com

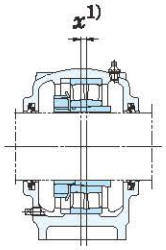
Plummer blocks
split type, standard
SN 5, 6, 33, 34
d_1 (140) ~ 170 mm



Shaft dia. (mm)	Dimensions (mm)												Bolt size	Housing No.
d_1	D	H	J	L	A	A_1	H_1	H_2	N	N_1	g	t Bolt size	S	
140	290	170	470	550	235	160	60	345	33	42	114	M24	M30	SN532
	340	200	580	680	255	190	70	405	42	50	124	M30	M36	SN632
150	260	160	450	530	200	160	60	320	33	42	77	M24	M30	SN3334
	280	170	470	550	220	160	60	340	33	42	98	M24	M30	SN3434
160	280	170	470	550	210	160	60	340	33	42	84	M24	M30	SN3336
	300	180	520	610	230	170	65	365	35	45	106	M30	M30	SN3436
170	290	170	470	550	210	160	60	345	33	42	85	M24	M30	SN3338
	320	190	560	650	240	180	65	385	35	45	114	M30	M30	SN3438

[Note] 1) Dimension x shows the shear between center of bearing and housing when one stabilizing ring is used. The value is 1/2 the width dimension of stabilizing ring.
When mounting two stabilizing rings, x becomes equal to 0, since they are mounted to each side of bearing.

Fixed side
(When one stabilizing ring used

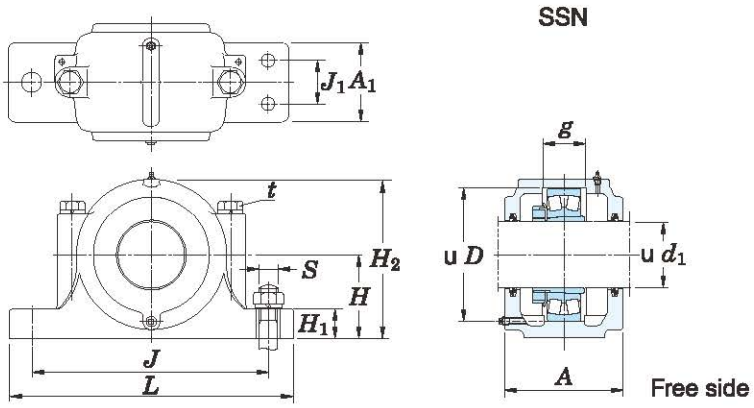


Stabilizing ring

	(Refer.) Housing mass (kg)	Grease nipple size	Drain plug size	Applicable bearing No. Self-aligning ball brg.	Applicable bearing No. Spherical roller brg.	Applicable adapter ass'y No.	Applicable stabilizing ring No. Outside dia×Width	Applicable stabilizing ring Qty.	Applicable oil seal No. MZ
	51	R 1/4	R 1/4	—	22232RK 23232RK	H3132 H2332	SR290×17 SR290×10	2 1	MZ32
	120	R 1/4	R 1/4	—	22332RK	H2332	SR340×10	1	MZ32
	45	R 1/4	R 1/4	—	23034RHK	H3034	SR260×10	1	MZ34
	61	R 1/4	R 1/4	—	23134RHK	H3134	SR280×10	1	MZ34
	57	R 1/4	R 1/4	—	23036RHK	H3036	SR280×10	1	MZ36
	80	R 1/4	R 1/4	—	23136RK	H3136	SR300×10	1	MZ36
	59	R 1/4	R 1/4	—	23038RK	H3038	SR290×10	1	MZ38
	95	R 1/4	R 1/4	—	23138RK	H3138	SR320×10	1	MZ38

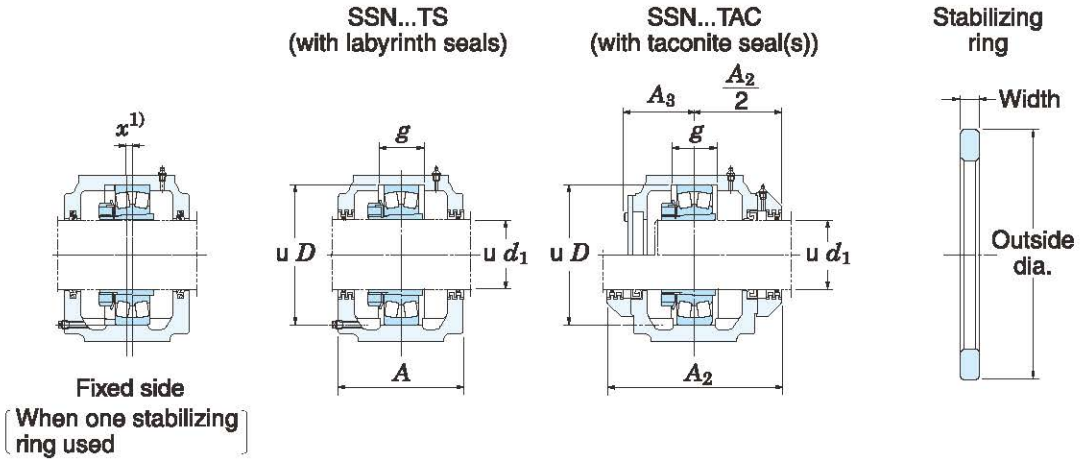
[Remark] Housings shown below are equipped with eyebolts.
SN524~SN532, SN620~SN632, SN3328~SN3338, SN3426~SN3438

Plummer blocks
split type, flat bottom
SSN 5, 6
d_1 20 ~ (60) mm



Shaft dia. (mm) d_1	Dimensions (mm) D	H	J	J_1	L	A	A_1	A_2	A_3	H_1	H_2	g	t Bolt size	Bolt size S (Two)	(Four)	Housing No.
20	52	40	130	25	165	67	46	—	—	22	75	25	M8	M12	M10	SSN505
	62	50	150	25	185	80	52	—	—	22	90	34	M8	M12	M10	SSN605
25	62	50	150	25	185	77	52	—	—	22	90	30	M8	M12	M10	SSN506
	72	50	150	25	185	82	52	—	—	22	95	37	M10	M12	M10	SSN606
30	72	50	150	25	185	82	52	—	—	22	95	33	M10	M12	M10	SSN507
	80	60	170	30	205	90	60	—	—	25	110	41	M10	M12	M10	SSN607
35	80	60	170	30	205	85	60	—	—	25	110	33	M10	M12	M10	SSN508
	90	60	170	30	205	95	60	—	—	25	115	43	M10	M12	M10	SSN608
40	85	60	170	30	205	85	60	—	—	25	112	31	M10	M12	M10	SSN509
	100	70	210	35	255	105	70	—	—	28	130	46	M12	M16	M12	SSN609
45	90	60	170	30	205	90	60	—	—	25	115	33	M10	M12	M10	SSN510
	110	70	210	35	255	115	70	—	—	30	135	50	M12	M16	M12	SSN610
50	100	70	210	35	255	95	70	160	57	28	130	33	M12	M16	M12	SSN511
	120	80	230	40	275	120	80	185	70	30	150	53	M12	M16	M12	SSN611
55	110	70	210	35	255	105	70	164	62	30	135	38	M12	M16	M12	SSN512
	130	80	230	40	280	125	80	184	72	30	155	56	M12	M16	M12	SSN612
60	120	80	230	40	275	110	80	168	65	30	150	43	M12	M16	M12	SSN513

[Note] 1) Dimension A_1 shows the shear between center of bearing and housing when one stabilizing ring is used. The value is 1/2 the width dimension of stabilizing ring.
When mounting two stabilizing rings, A_1 becomes equal to 0, since they are mounted to each side of bearing.



(Refer.) Housing mass (kg)	Grease nipple size	Drain plug size	Applicable bearing No. Self-aligning ball brg.	Applicable bearing No. Spherical roller brg.	Applicable adapter ass'y No.	Applicable stabilizing ring No. Outside dia×Width	Qty.	Applicable oil seal No. MZ
1.8	R 1/8	R 1/8	1205K 2205K	— 22205RHRK	H205X H305X	SR52×5 SR52×7	2 1	MZ05
2.6	R 1/8	R 1/8	1305K 2305K	—	H305X H2305X	SR62×8.5 SR62×10	2 1	MZ05
2.7	R 1/8	R 1/8	1206K 2206K	— 22206RHRK	H206X H306X	SR62×7 SR62×10	2 1	MZ06
2.8	R 1/8	R 1/8	1306K 2306K	—	H306X H2306X	SR72×9 SR72×10	2 1	MZ06
3.0	R 1/8	R 1/8	1207K 2207K	— 22207RHRK	H207X H307X	SR72×8 SR72×10	2 1	MZ07
3.8	R 1/8	R 1/8	1307K 2307K	—	H307X H2307X	SR80×10 SR80×10	2 1	MZ07
3.8	R 1/8	R 1/8	1208K 2208K	— 22208RHRK	H208X H308X	SR80×7.5 SR80×10	2 1	MZ08
3.9	R 1/8	R 1/8	1308K 2308K	21308RHK 22308RHRK	H308X H2308X	SR90×10 SR90×10	2 1	MZ08
4.3	R 1/8	R 1/8	1209K 2209K	— 22209RHRK	H209X H309X	SR85×6 SR85×8	2 1	MZ09
6.2	R 1/8	R 1/8	1309K 2309K	21309RHK 22309RHRK	H309X H2309X	SR100×10.5 SR100×10	2 1	MZ09
5.2	R 1/8	R 1/8	1210K 2210K	— 22210RHRK	H210X H310X	SR90×6.5 SR90×10	2 1	MZ10
6.5	R 1/8	R 1/8	1310K 2310K	21310RHK 22310RHRK	H310X H2310X	SR110×11.5 SR110×10	2 1	MZ10
5.5	R 1/8	R 1/8	1211K 2211K	— 22211RHRK	H211X H311X	SR100×6 SR100×8	2 1	MZ11
8.5	R 1/8	R 1/8	1311K 2311K	21311RHK 22311RHRK	H311X H2311X	SR120×12 SR120×10	2 1	MZ11
6.3	R 1/8	R 1/8	1212K 2212K	— 22212RHRK	H212X H312X	SR110×8 SR110×10	2 1	MZ12
8.9	R 1/8	R 1/8	1312K 2312K	21312RHK 22312RHRK	H312X H2312X	SR130×12.5 SR130×10	2 1	MZ12
6.8	R 1/8	R 1/8	1213K 2213K	— 22213RHRK	H213X H313X	SR120×10 SR120×12	2 1	MZ13

[Remarks] 1) Use of labyrinth or taconite seals are indicated by TS or TAC suffixed to housing numbers.
2) Housings shown below are equipped with eyebolts.
SSN524~SSN532, SSN618~SSN632

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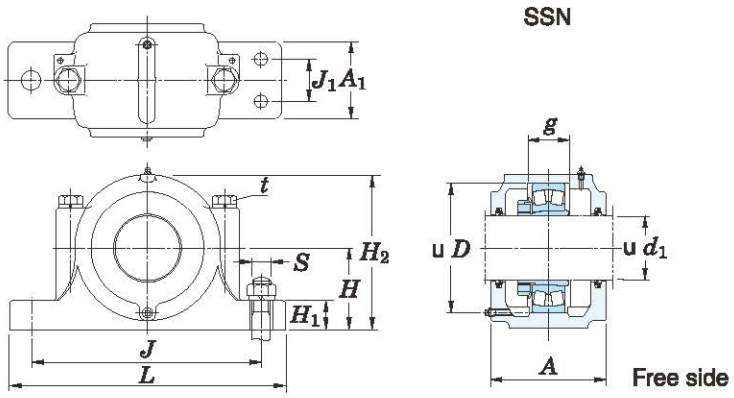
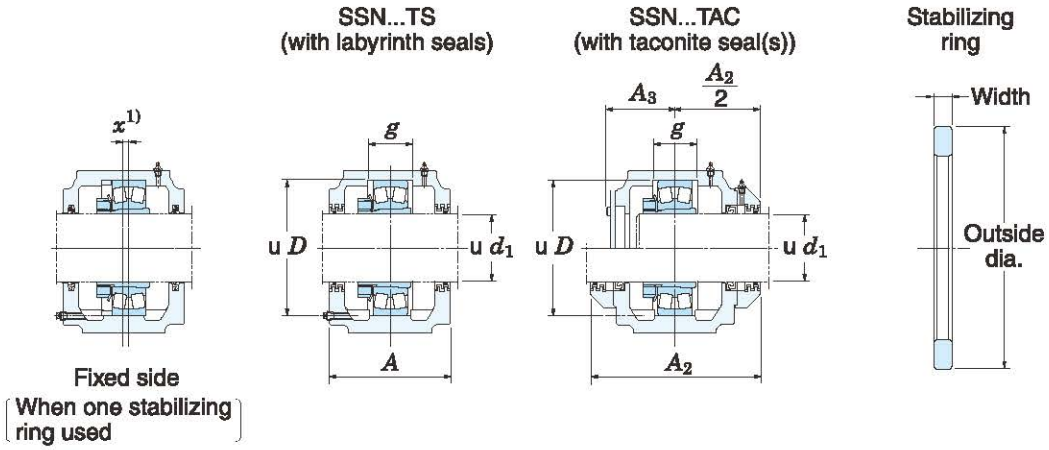
Plummer blocks
split type, flat bottom
SSN 5, 6
d_1 (60) ~ 110 mm



Shaft dia. (mm)	Dimensions (mm)													Bolt size		Housing No.
d_1	D	H	J	J_1	L	A	A_1	A_2	A_3	H_1	H_2	g	t Bolt size	S (Two)	(Four)	
60	140	95	260	50	315	130	90	188	75	32	175	58	M16	M20	M16	SSN613
65	130	80	230	40	280	115	80	172	67	30	155	41	M12	M16	M12	SSN515
	160	100	290	50	345	140	100	197	80	35	195	65	M16	M20	M16	SSN615
70	140	95	260	50	315	120	90	190	70	32	175	43	M16	M20	M16	SSN516
	170	112	290	50	345	145	100	215	83	35	212	68	M16	M20	M16	SSN616
75	150	95	260	50	320	125	90	194	75	32	185	46	M16	M20	M16	SSN517
	180	112	320	60	380	155	110	224	90	40	223	70	M20	M24	M20	SSN617
80	160	100	290	50	345	145	100	214	85	35	195	62.4	M16	M20	M16	SSN518
	190	112	320	60	380	160	110	229	93	40	230	74	M20	M24	M20	SSN618
85	170	112	290	50	345	140	100	214	85	35	210	53	M16	M20	M16	SSN519
	200	125	350	70	410	170	120	235	98	45	250	77	M20	M24	M20	SSN619
90	180	112	320	60	380	160	110	220	92	40	223	70.3	M20	M24	M16	SSN520
	215	140	350	70	410	175	120	235	100	45	270	83	M20	M24	M20	SSN620
100	200	125	350	70	410	175	120	240	100	45	245	80	M20	M24	M16	SSN522
	240	150	390	70	450	190	130	255	108	50	300	90	M24	M24	M24	SSN622
110	215	140	350	70	410	185	120	254	110	45	270	86	M20	M24	M16	SSN524
	260	160	450	90	530	200	160	269	118	60	320	96	M24	M30	M24	SSN624

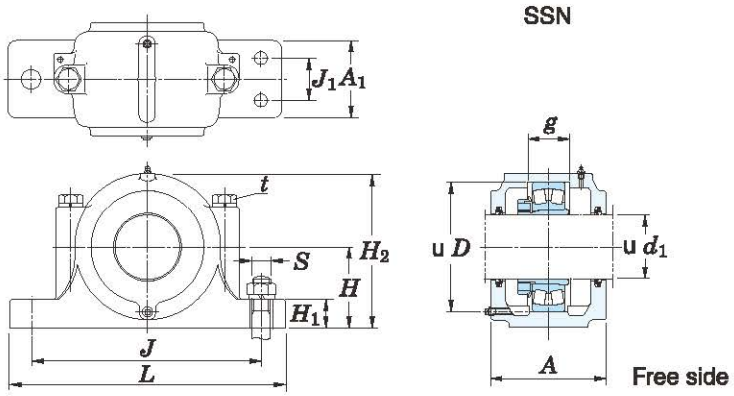
[Note] 1) Dimension shows the shear between center of bearing and housing when one stabilizing ring is used. The value is 1/2 the width dimension of stabilizing ring.
When mounting two stabilizing rings, becomes equal to 0, since they are mounted to each side of bearing.



(Refer.) Housing mass (kg)	Grease nipple size	Drain plug size	Applicable bearing No. Self-aligning ball brg.	Applicable bearing No. Spherical roller brg.	Applicable adapter ass'y No.	Applicable stabilizing ring No. Outside dia×Width	Qty.	Applicable oil seal No. MZ
12.9	R 1/8	R 1/8	1313K 2313K	21313RHK 22313RHRK	H313X H2313X	SR140×12.5 SR140×10	2 1	MZ13
7.9	R 1/8	R 1/8	1215K 2215K	— 22215RHRK	H215X H315X	SR130×8 SR130×10	2 1	MZ15
16.5	R 1/8	R 1/8	1315K 2315K	21315RHK 22315RHRK	H315X H2315X	SR160×14 SR160×10	2 1	MZ15
12	R 1/8	R 1/8	1216K 2216K	— 22216RHRK	H216X H316X	SR140×8.5 SR140×10	2 1	MZ16
18	R 1/8	R 1/8	1316K 2316K	21316RHK 22316RHRK	H316X H2316X	SR170×14.5 SR170×10	2 1	MZ16
13	R 1/8	R 1/8	1217K 2217K	— 22217RHRK	H217X H317X	SR150×9 SR150×10	2 1	MZ17
25.8	R 1/8	R 1/8	1317K 2317K	21317RHK 22317RHRK	H317X H2317X	SR180×14.5 SR180×10	2 1	MZ17
17	R 1/8	R 1/8	1218K 2218K —	— 22218RHRK 23218RHK	H218X H318X H2318X	SR160×16.2 SR160×11.2 SR160×10	2 2 1	MZ18
28	R 1/4	R 1/4	1318K 2318K	— 22318RHRK	H318X H2318X	SR190×15.5 SR190×10	2 1	MZ18
18	R 1/8	R 1/8	1219K 2219K	— 22219RHRK	H219X H319X	SR170×10.5 SR170×10	2 1	MZ19
31	R 1/4	R 1/4	1319K 2319K	— 22319RHRK	H319X H2319X	SR200×16 SR200×10	2 1	MZ19
24	R 1/4	R 1/4	1220K 2220K —	— 22220RHRK 23220RHK	H220X H320X H2320X	SR180×18.1 SR180×12.1 SR180×10	2 2 1	MZ20
41	R 1/4	R 1/4	1320K 2320K	— 22320RHRK	H320X H2320X	SR215×18 SR215×10	2 1	MZ20
28	R 1/4	R 1/4	1222K 2222K —	— 22222RHRK 23222RHK	H222X H322X H2322X	SR200×21 SR200×13.5 SR200×10	2 2 1	MZ22
51	R 1/4	R 1/4	1322K 2322K	— 22322RHRK	H322X H2322X	SR240×20 SR240×10	2 1	MZ22
33	R 1/4	R 1/4	—	22224RHRK 23224RHK	H3124 H2324	SR215×14 SR215×10	2 1	MZ24
63	R 1/4	R 1/4	—	22324RHRK	H2324	SR260×10	1	MZ24

[Remarks] 1) Use of labyrinth or taconite seals are indicated by TS or TAC suffixed to housing numbers.
2) Housings shown below are equipped with eyebolts.
SSN524~SSN532, SSN618~SSN632

Plummer blocks
split type, flat bottom
SSN 5, 6
d_1 115 ~ 140 mm



Shaft dia. (mm) d_1	Dimensions (mm) D	H	J	J_1	L	A	A_1	A_2	A_3	H_1	H_2	g	t Bolt size	Bolt size S (Two)	(Four)	Housing No.
115	230	150	380	70	445	190	130	260	112	50	290	90	M24	M24	M20	SSN526
	280	170	470	90	550	210	160	280	122	60	340	103	M24	M30	M24	SSN626
125	250	150	420	80	500	205	150	274	120	50	305	98	M24	M30	M24	SSN528
	300	180	520	100	610	235	170	304	135	65	365	112	M30	M30	M24	SSN628
135	270	160	450	90	530	220	160	280	127	60	325	106	M24	M30	M24	SSN530
	320	190	560	110	650	245	180	310	140	65	385	118	M30	M30	M24	SSN630
140	290	170	470	90	550	235	160	300	135	60	345	114	M24	M30	M24	SSN532
	340	200	580	110	680	255	190	320	145	70	405	124	M30	M36	M30	SSN632

[Note] 1) Dimension A_3 shows the shear between center of bearing and housing when one stabilizing ring is used. The value is 1/2 the width dimension of stabilizing ring.
When mounting two stabilizing rings, A_3 becomes equal to 0, since they are mounted to each side of bearing.

M

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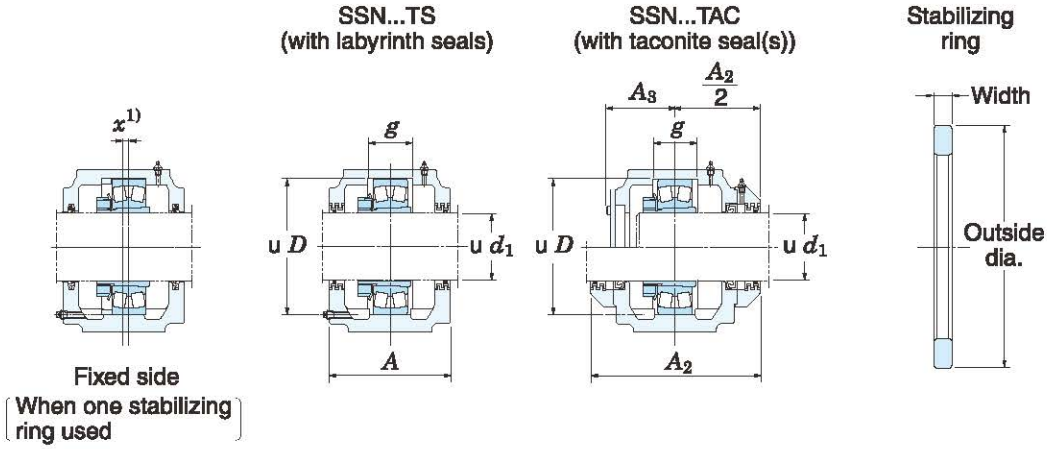
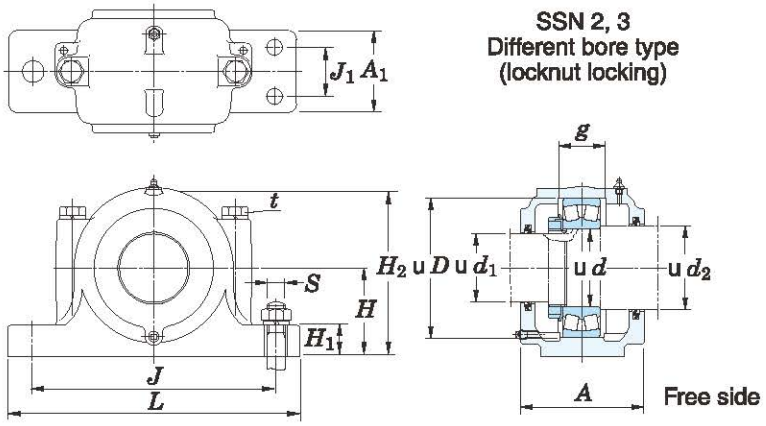


(Refer.) Housing mass (kg)	Grease nipple size	Drain plug size	Applicable bearing No. Self-aligning ball brg.	Applicable bearing No. Spherical roller brg.	Applicable adapter ass'y No.	Applicable stabilizing ring No. Outside dia×Width	Qty.	Applicable oil seal No. MZ
45	R 1/4	R 1/4	—	22226RHRK 23226RHK	H3126 H2326	SR230×13 SR230×10	2 1	MZ26
96	R 1/4	R 1/4	—	22326RHRK	H2326	SR280×10	1	MZ26
54	R 1/4	R 1/4	—	22228RHRK 23228RHK	H3128 H2328	SR250×15 SR250×10	2 1	MZ28
117	R 1/4	R 1/4	—	22328RK	H2328	SR300×10	1	MZ28
60	R 1/4	R 1/4	—	22230RHRK 23230RHK	H3130 H2330	SR270×16.5 SR270×10	2 1	MZ30
132	R 1/4	R 1/4	—	22330RK	H2330	SR320×10	1	MZ30
69	R 1/4	R 1/4	—	22232RK 23232RK	H3132 H2332	SR290×17 SR290×10	2 1	MZ32
145	R 1/4	R 1/4	—	22332RK	H2332	SR340×10	1	MZ32

[Remarks] 1) Use of labyrinth or taconite seals are indicated by TS or TAC suffixed to housing numbers.
2) Housings shown below are equipped with eyebolts.
SSN524~SSN532, SSN618~SSN632

M

Plummer blocks
split type, flat bottom
different bore type
SSN 2, 3
large bore type
SSN 2B, 3B
d_1 20 ~ (60) mm



Shaft diameter (mm)			Dimensions (mm)										Bolt size		Housing No.
d_1	d	d_2 2)	D	H	J	J_1	L	A	A_1	H_1	H_2	g	t Bolt size	S (Two)	S (Four)	
20	25	*30	52	40	130	25	165	67	46	22	75	25	M8	M12	M10	SSN205
	25	30	62	50	150	25	185	80	52	22	90	34	M8	M12	M10	SSN305
25	30	*35	62	50	150	25	185	77	52	22	90	30	M8	M12	M10	SSN206
	30	35	72	50	150	25	185	82	52	22	95	37	M10	M12	M10	SSN306
30	35	45	72	50	150	25	185	82	52	22	95	33	M10	M12	M10	SSN207
	35	45	80	60	170	30	205	90	60	25	110	41	M10	M12	M10	SSN307
35	40	50	80	60	170	30	205	85	60	25	110	33	M10	M12	M10	SSN208
	40	50	90	60	170	30	205	95	60	25	115	43	M10	M12	M10	SSN308
40	45	55	85	60	170	30	205	85	60	25	112	31	M10	M12	M10	SSN209
	45	55	100	70	210	35	255	105	70	28	130	46	M12	M16	M12	SSN309
45	50	60	90	60	170	30	205	90	60	25	115	33	M10	M12	M10	SSN210
	50	60	110	70	210	35	255	115	70	30	135	50	M12	M16	M12	SSN310
50	55	65	100	70	210	35	255	95	70	28	130	33	M12	M16	M12	SSN211
	55	65	120	80	230	40	275	120	80	30	150	53	M12	M16	M12	SSN311
55	60	70	110	70	210	35	255	105	70	30	135	38	M12	M16	M12	SSN212
	60	*70	130	80	230	40	280	125	80	30	155	56	M12	M16	M12	SSN312
60	65	75	120	80	230	40	275	110	80	30	150	43	M12	M16	M12	SSN213

[Notes] 1) Dimension shows the shear between center of bearing and housing when one stabilizing ring is used. The value is 1/2 the width dimension of stabilizing ring.
When mounting two stabilizing rings, becomes equal to 0, since they are mounted to each side of bearing.
2) If bearing of shaft diameter marked with * (shoulder diameter) receives large axial load, the use of spacers is recommended.

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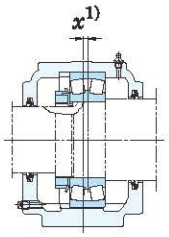
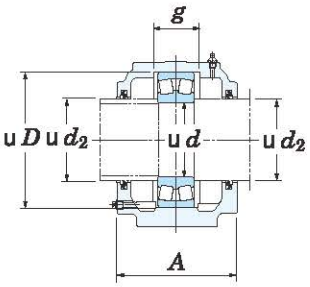


Fixed side
When one stabilizing ring used

SSN 2B, 3B
Large bore type
(concentric collar locking)

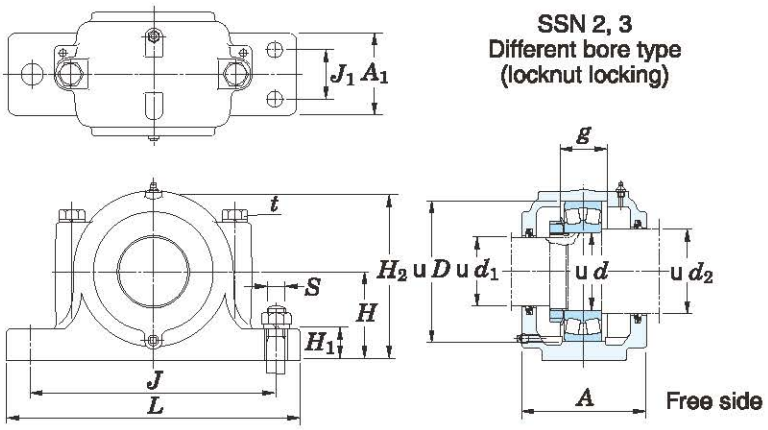


Stabilizing ring

(Refer.) Housing mass (kg)	Grease nipple size	Drain plug size	Applicable bearing No. Self-aligning ball brg.	Applicable bearing No. Spherical roller brg.	Applicable stabilizing ring No. Outside dia×Width	Qty.	Applicable oil seal No. d_1 side	Applicable oil seal No. d_2 side
1.8	R 1/8	R 1/8	1205 2205	— 22205RHR	SR52×5 SR52×7	2 1	MZ05	MZ07
2.6	R 1/8	R 1/8	1305 2305	—	SR62×8.5 SR62×10	2 1	MZ05	MZ07
2.7	R 1/8	R 1/8	1206 2206	— 22206RHR	SR62×7 SR62×10	2 1	MZ06	MZ08
2.8	R 1/8	R 1/8	1306 2306	—	SR72×9 SR72×10	2 1	MZ06	MZ08
3.0	R 1/8	R 1/8	1207 2207	— 22207RHR	SR72×8 SR72×10	2 1	MZ07	MZ10
3.8	R 1/8	R 1/8	1307 2307	—	SR80×10 SR80×10	2 1	MZ07	MZ10
3.8	R 1/8	R 1/8	1208 2208	— 22208RHR	SR80×7.5 SR80×10	2 1	MZ08	MZ11
3.9	R 1/8	R 1/8	1308 2308	21308RH 22308RHR	SR90×10 SR90×10	2 1	MZ08	MZ11
4.3	R 1/8	R 1/8	1209 2209	— 22209RHR	SR85×6 SR85×8	2 1	MZ09	MZ12
6.2	R 1/8	R 1/8	1309 2309	21309RH 22309RHR	SR100×10.5 SR100×10	2 1	MZ09	MZ12
5.2	R 1/8	R 1/8	1210 2210	— 22210RHR	SR90×6.5 SR90×10	2 1	MZ10	MZ13
6.5	R 1/8	R 1/8	1310 2310	21310RH 22310RHR	SR110×11.5 SR110×10	2 1	MZ10	MZ13
5.5	R 1/8	R 1/8	1211 2211	— 22211RHR	SR100×6 SR100×8	2 1	MZ11	MZ15
8.5	R 1/8	R 1/8	1311 2311	21311RH 22311RHR	SR120×12 SR120×10	2 1	MZ11	MZ15
6.3	R 1/8	R 1/8	1212 2212	— 22212RHR	SR110×8 SR110×10	2 1	MZ12	MZ16
8.9	R 1/8	R 1/8	1312 2312	21312RH 22312RHR	SR130×12.5 SR130×10	2 1	MZ12	MZ16
6.8	R 1/8	R 1/8	1213 2213	— 22213RHR	SR120×10 SR120×12	2 1	MZ13	MZ17

[Remarks] 1) Large bore diameter types (concentric collar locking) are identified by B suffixed to housing numbers.
2) Housings shown below are equipped with eyebolts.
SSN224~SSN232, SSN318~SSN332

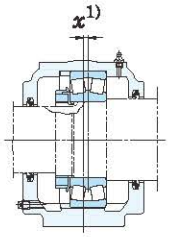
Plummer blocks
split type, flat bottom
different bore type
SSN 2, 3
large bore type
SSN 2B, 3B
d_1 (60) ~ (105) mm



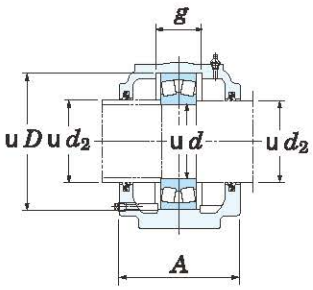
Shaft diameter (mm)			Dimensions (mm)										Bolt size		Housing No.
d_1	d	d_2 2)	D	H	J	J_1	L	A	A_1	H_1	H_2	g	t Bolt size	S (Two)	S (Four)	
60	65	*75	140	95	260	50	315	130	90	32	175	58	M16	M20	M16	SSN313
65	70	80	125	80	230	40	275	115	80	30	155	44	M12	M16	M12	SSN214
	70	*80	150	95	260	50	320	130	90	32	185	61	M16	M20	M16	SSN314
70	75	85	130	80	230	40	280	115	80	30	155	41	M12	M16	M12	SSN215
	75	*85	160	100	290	50	345	140	100	35	195	65	M16	M20	M16	SSN315
75	80	90	140	95	260	50	315	120	90	32	175	43	M16	M20	M16	SSN216
	80	*90	170	112	290	50	345	145	100	35	212	68	M16	M20	M16	SSN316
80	85	95	150	95	260	50	320	125	90	32	185	46	M16	M20	M16	SSN217
	85	95	180	112	320	60	380	155	110	40	223	70	M20	M24	M20	SSN317
85	90	100	160	100	290	50	345	145	100	35	195	62.4	M16	M20	M16	SSN218
	90	105	190	112	320	60	380	160	110	40	230	74	M20	M24	M20	SSN318
90	95	110	170	112	290	50	345	140	100	35	210	53	M16	M20	M16	SSN219
	95	110	200	125	350	70	410	170	120	45	250	77	M20	M24	M20	SSN319
95	100	115	180	112	320	60	380	160	110	40	223	70.3	M20	M24	M16	SSN220
	100	115	215	140	350	70	410	175	120	45	270	83	M20	M24	M20	SSN320
105	110	125	200	125	350	70	410	175	120	45	245	80	M20	M24	M16	SSN222

[Notes] 1) Dimension J shows the shear between center of bearing and housing when one stabilizing ring is used. The value is 1/2 the width dimension of stabilizing ring.
When mounting two stabilizing rings, J becomes equal to 0, since they are mounted to each side of bearing.
2) If bearing of shaft diameter marked with * (shoulder diameter) receives large axial load, the use of spacers is recommended.

SSN 2B, 3B
Large bore type
(concentric collar locking)



Fixed side
(When one stabilizing ring used)

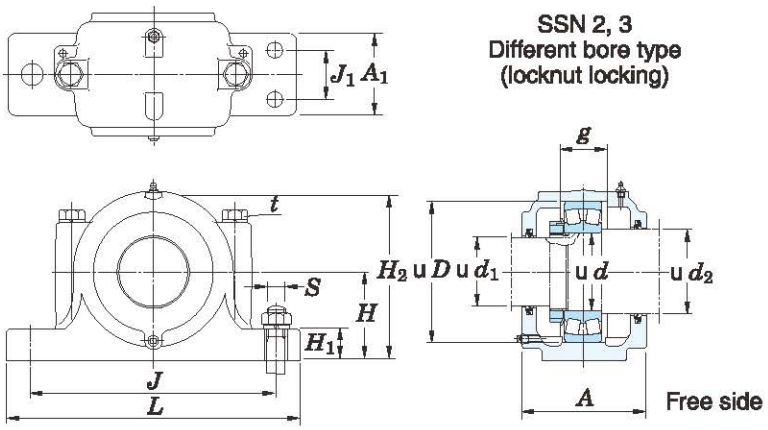


Stabilizing ring

(Refer.) Housing mass (kg)	Grease nipple size	Drain plug size	Applicable bearing No. Self-aligning ball brg.	Applicable bearing No. Spherical roller brg.	Applicable stabilizing ring No. Outside diaxWidth	Qty.	Applicable oil seal No. d_1 side	Applicable oil seal No. d_2 side
12.9	R 1/8	R 1/8	1313 2313	21313RH 22313RHR	SR140×12.5 SR140×10	2 1	MZ13	MZ17
7.5	R 1/8	R 1/8	1214 2214	— 22214RHR	SR125×10 SR125×13	2 1	MZ15	MZ18
15	R 1/8	R 1/8	1314 2314	21314RH 22314RHR	SR150×13 SR150×10	2 1	MZ15	MZ18
7.9	R 1/8	R 1/8	1215 2215	— 22215RHR	SR130×8 SR130×10	2 1	MZ16	MZ19
16.5	R 1/8	R 1/8	1315 2315	21315RH 22315RHR	SR160×14 SR160×10	2 1	MZ16	MZ19
12	R 1/8	R 1/8	1216 2216	— 22216RHR	SR140×8.5 SR140×10	2 1	MZ17	MZ20
18	R 1/8	R 1/8	1316 2316	21316RH 22316RHR	SR170×14.5 SR170×10	2 1	MZ17	MZ20
13	R 1/8	R 1/8	1217 2217	— 22217RHR	SR150×9 SR150×10	2 1	MZ18	MZ21
25.8	R 1/8	R 1/8	1317 2317	21317RH 22317RHR	SR180×14.5 SR180×10	2 1	MZ18	MZ21
17	R 1/8	R 1/8	1218 2218 —	— 22218RHR 23218RH	SR160×16.2 SR160×11.2 SR160×10	2 2 1	MZ19	MZ22
28	R 1/4	R 1/4	1318 2318	— 22318RHR	SR190×15.5 SR190×10	2 1	MZ19	MZ23
18	R 1/8	R 1/8	1219 2219	— 22219RHR	SR170×10.5 SR170×10	2 1	MZ20	MZ24
31	R 1/4	R 1/4	1319 2319	— 22319RHR	SR200×16 SR200×10	2 1	MZ20	MZ24
24	R 1/4	R 1/4	1220 2220 —	— 22220RHR 23220RH	SR180×18.1 SR180×12.1 SR180×10	2 2 1	MZ21	MZ26
41	R 1/4	R 1/4	1320 2320	— 22320RHR	SR215×18 SR215×10	2 1	MZ21	MZ26
28	R 1/4	R 1/4	1222 2222 —	— 22222RHR 23222RH	SR200×21 SR200×13.5 SR200×10	2 2 1	MZ23	MZ28

[Remarks] 1) Large bore diameter types (concentric collar locking) are identified by B suffixed to housing numbers.
2) Housings shown below are equipped with eyebolts.
SSN224~SSN232, SSN318~SSN332

Plummer blocks
split type, flat bottom
different bore type
SSN 2, 3
large bore type
SSN 2B, 3B
d_1 (105) ~ 150 mm



Shaft diameter (mm)			Dimensions (mm)										Bolt size		Housing No.
d_1	d	d_2 2)	D	H	J	J_1	L	A	A_1	H_1	H_2	g	t Bolt size	S (Two)	S (Four)	
105	110	125	240	150	390	70	450	190	130	50	300	90	M24	M24	M24	SSN322
115	120	135	215	140	350	70	410	185	120	45	270	86	M20	M24	M16	SSN224
	120	135	260	160	450	90	530	200	160	60	320	96	M24	M30	M24	SSN324
125	130	145	230	150	380	70	445	190	130	50	290	90	M24	M24	M20	SSN226
	130	150	280	170	470	90	550	210	160	60	340	103	M24	M30	M24	SSN326
135	140	155	250	150	420	80	500	205	150	50	305	98	M24	M30	M24	SSN228
	140	160	300	180	520	100	610	235	170	65	365	112	M30	M30	M24	SSN328
145	150	165	270	160	450	90	530	220	160	60	325	106	M24	M30	M24	SSN230
	150	170	320	190	560	110	650	245	180	65	385	118	M30	M30	M24	SSN330
150	160	175	290	170	470	90	550	235	160	60	345	114	M24	M30	M24	SSN232
	160	180	340	200	580	110	680	255	190	70	405	124	M30	M36	M30	SSN332

[Notes] 1) Dimension J shows the shear between center of bearing and housing when one stabilizing ring is used. The value is 1/2 the width dimension of stabilizing ring.
When mounting two stabilizing rings, J becomes equal to 0, since they are mounted to each side of bearing.
2) If bearing of shaft diameter marked with * (shoulder diameter) receives large axial load, the use of spacers is recommended.

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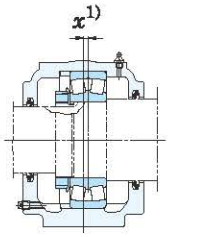
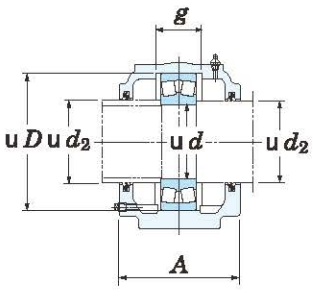


Fixed side
(When one stabilizing ring used)

SSN 2B, 3B
Large bore type
(concentric collar locking)

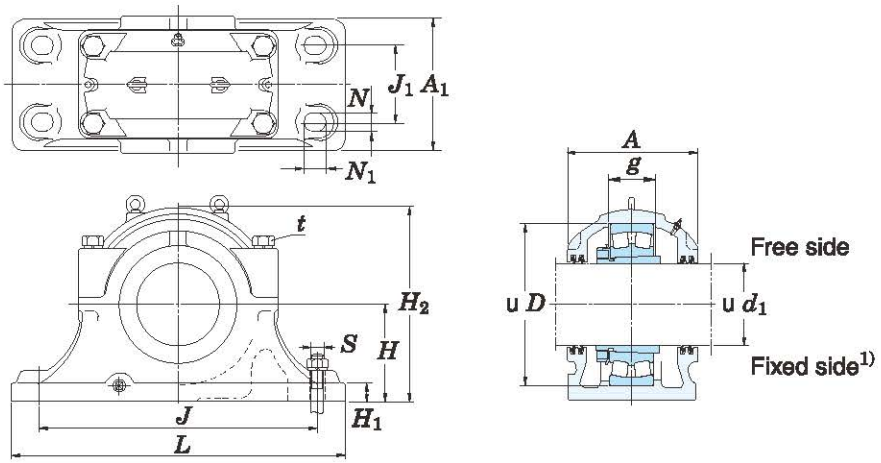


Stabilizing ring

(Refer.) Housing mass (kg)	Grease nipple size	Drain plug size	Applicable bearing No. Self-aligning ball brg.	Applicable bearing No. Spherical roller brg.	Applicable stabilizing ring No. Outside dia×Width	Qty.	Applicable oil seal No. d_1 side	Applicable oil seal No. d_2 side
51	R 1/4	R 1/4	1322 2322	— 22322RHR	SR240×20 SR240×10	2 1	MZ23	MZ28
33	R 1/4	R 1/4	—	22224RHR 23224RH	SR215×14 SR215×10	2 1	MZ26	MZ30
63	R 1/4	R 1/4	—	22324RHR	SR260×10	1	MZ26	MZ30
45	R 1/4	R 1/4	—	22226RHR 23226RH	SR230×13 SR230×10	2 1	MZ28	MZ33
96	R 1/4	R 1/4	—	22326RHR	SR280×10	1	MZ28	MZ34
54	R 1/4	R 1/4	—	22228RHR 23228RH	SR250×15 SR250×10	2 1	MZ30	MZ35
117	R 1/4	R 1/4	—	22328R	SR300×10	1	MZ30	MZ36
60	R 1/4	R 1/4	—	22230RHR 23230RH	SR270×16.5 SR270×10	2 1	MZ33	MZ37
132	R 1/4	R 1/4	—	22330R	SR320×10	1	MZ33	MZ38
69	R 1/4	R 1/4	—	22232R 23232R	SR290×17 SR290×10	2 1	MZ34	MZ39
145	R 1/4	R 1/4	—	22332R	SR340×10	1	MZ34	MZ40

[Remarks] 1) Large bore diameter types (concentric collar locking) are identified by B suffixed to housing numbers.
2) Housings shown below are equipped with eyebolts.
SSN224~SSN232, SSN318~SSN332

Plummer blocks
split type, large size
SD 5, 6
SD 33, 34
d_1 150 ~ 240 mm



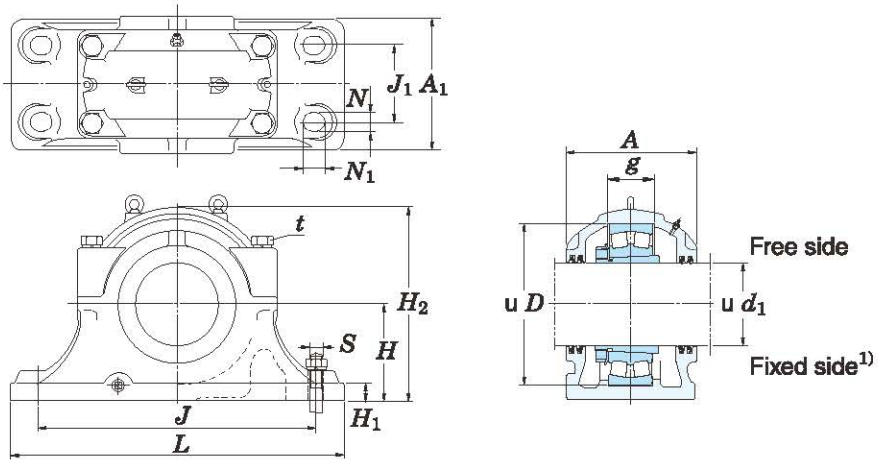
Shaft dia. (mm)	Dimensions (mm)													Bolt size	Housing No.
d_1	D	H	J	J_1	L	A	A_1	H_1	H_2	N	N_1	g	t Bolt size	S	
150	260	160	450	110	540	230	200	50	315	36	46	77	M24	M30	SD3334
	310	180	510	140	620	270	250	60	360	36	46	96	M24	M30	SD534
	360	210	610	170	740	300	290	65	420	36	46	130	M30	M30	SD634
160	280	170	470	120	560	250	220	50	335	36	46	84	M24	M30	SD3336
	320	190	540	150	650	280	260	60	380	36	46	96	M24	M30	SD536
	380	225	640	180	780	320	310	70	450	43	59	136	M30	M36	SD636
170	290	170	470	120	560	250	220	50	340	36	46	85	M24	M30	SD3338
	340	200	570	160	700	290	280	65	400	36	46	102	M30	M30	SD538
	400	240	680	190	820	330	320	70	475	43	59	142	M30	M36	SD638
180	310	180	510	140	620	270	250	60	360	36	46	92	M24	M30	SD3340
	340	200	570	160	700	310	280	65	400	36	46	122	M30	M30	SD3440
	360	210	610	170	740	300	290	65	420	36	46	108	M30	M30	SD540
	420	250	710	200	860	350	340	85	500	43	59	148	M36	M36	SD640
200	340	200	570	160	700	290	280	65	400	36	46	100	M30	M30	SD3344
	370	225	640	180	780	320	310	70	445	43	59	130	M30	M36	SD3444
	400	240	680	190	820	330	320	70	475	43	59	118	M30	M36	SD544
	460	280	770	210	920	360	350	85	550	43	59	155	M36	M36	SD644
220	360	210	610	170	740	300	290	65	420	36	46	102	M30	M30	SD3348
	400	240	680	190	820	330	320	70	475	43	59	138	M30	M36	SD3448
	440	260	740	200	880	340	330	85	515	43	59	130	M36	M36	SD548
	500	300	830	230	990	390	380	100	590	50	67	165	M36	M42	SD648
240	400	240	680	190	820	340	320	70	475	43	59	114	M30	M36	SD3352
	440	260	740	200	880	360	350	85	515	43	59	154	M36	M36	SD3452
	480	280	790	210	940	370	360	85	560	43	59	140	M36	M36	SD552
	540	325	890	250	1 060	410	400	100	640	50	67	175	M36	M42	SD652

[Note] 1) Since bearings are designed to be locked by housing, stabilizing rings are unnecessary.

	(Refer.) Housing mass (kg)	Grease nipple size	Drain plug size	Applicable bearing No.	Applicable adapter ass'y No.	Applicable oil seal No. MZ
	70	R 3/8	R 3/8	23034RHK	H3034	MZ34
	105	R 3/8	R 3/8	22234RK	H3134	MZ34
	165	R 3/8	R 3/8	22334RK	H2334	MZ34
	80	R 3/8	R 3/8	23036RHK	H3036	MZ36
	120	R 3/8	R 3/8	22236RK	H3136	MZ36
	200	R 3/8	R 3/8	22336RK	H2336	MZ36
	90	R 3/8	R 3/8	23038RK	H3038	MZ38
	145	R 3/8	R 3/8	22238RK	H3138	MZ38
	220	R 3/8	R 3/8	22338RK	H2338	MZ38
	100	R 3/8	R 3/8	23040RK	H3040	MZ40
	135	R 3/8	R 3/8	23140RK	H3140	MZ40
	170	R 3/8	R 3/8	22240RK	H3140	MZ40
	250	R 3/8	R 1/2	22340RK	H2340	MZ40
	130	R 3/8	R 3/8	23044RK	H3044	MZ44
	185	R 3/8	R 3/8	23144RK	H3144	MZ44
	220	R 3/8	R 3/8	22244RK	H3144	MZ44
	320	R 3/8	R 1/2	22344RK	H2344	MZ44
	160	R 3/8	R 3/8	23048RK	H3048	MZ48
	210	R 3/8	R 3/8	23148RK	H3148	MZ48
	260	R 3/8	R 1/2	22248RK	H3148	MZ48
	415	R 3/8	R 1/2	22348RK	H2348	MZ48
	215	R 3/8	R 3/8	23052RK	H3052	MZ52
	245	R 3/8	R 1/2	23152RK	H3152	MZ52
	325	R 3/8	R 1/2	22252RK	H3152	MZ52
	490	R 3/8	R 3/4	22352RK	H2352	MZ52

[Remark] The structure of certain housings may differ from those shown in the figures.

Plummer blocks
split type, large size
SD 5, 6
SD 33, 34
d_1 260 ~ 360 mm



Shaft dia. (mm)	Dimensions (mm)													Bolt size	Housing No.
d_1	D	H	J	J_1	L	A	A_1	H_1	H_2	N	N_1	g	t Bolt size	S	
260	420	250	710	200	860	350	340	85	500	43	59	116	M36	M36	SD3356
	460	280	770	210	920	360	350	85	550	43	59	156	M36	M36	SD3456
	500	300	830	230	990	390	380	100	590	50	67	140	M36	M42	SD556
	580	355	930	270	1 110	440	430	110	690	57	77	185	M42	M48	SD656
280	460	280	770	210	920	360	350	85	550	43	59	128	M36	M36	SD3360
	500	300	830	230	990	390	380	100	590	50	67	170	M36	M42	SD3460
	540	325	890	250	1 060	410	400	100	640	50	67	150	M36	M42	SD560
300	480	280	790	210	940	380	360	85	560	43	59	131	M36	M36	SD3364
	540	325	890	250	1 060	430	400	100	640	50	67	186	M36	M42	SD3464
	580	355	930	270	1 110	440	430	110	690	57	77	160	M42	M48	SD564
320	520	310	860	230	1 020	400	370	100	615	50	67	143	M36	M42	SD3368
	580	355	930	270	1 110	470	450	110	690	57	77	200	M42	M48	SD3468
340	540	325	890	250	1 060	410	390	100	640	50	67	144	M36	M42	SD3372
360	560	340	900	260	1 080	410	390	100	665	50	67	145	M36	M42	SD3376

[Note] 1) Since bearings are designed to be locked by housing, stabilizing rings are unnecessary.

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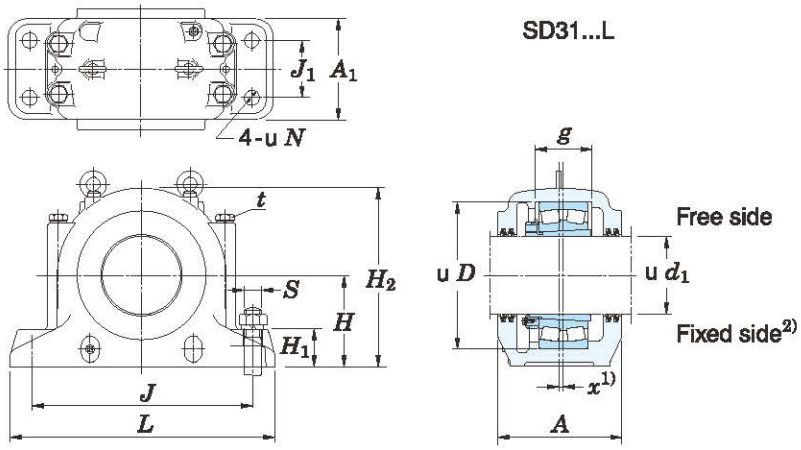
	(Refer.) Housing mass (kg)	Grease nipple size	Drain plug size	Applicable bearing No.	Applicable adapter ass'y No.	Applicable oil seal No. MZ
	245	R 3/8	R 1/2	23056RK	H3056	MZ56
	320	R 3/8	R 1/2	23156RK	H3156	MZ56
	395	R 3/8	R 1/2	22256RK	H3156	MZ56
	615	R 3/8	R 3/4	22356RK	H2356	MZ56
	305	R 3/8	R 1/2	23060RK	H3060	MZ60
	400	R 3/8	R 1/2	23160RK	H3160	MZ60
	490	R 3/8	R 3/4	22260RK	H3160	MZ60
	325	R 3/8	R 1/2	23064RK	H3064	MZ64
	480	R 3/8	R 3/4	23164RK	H3164	MZ64
	600	R 3/8	R 3/4	22264RK	H3164	MZ64
	420	R 3/8	R 3/4	23068RK	H3068	MZ68
	645	R 3/8	R 3/4	23168RK	H3168	MZ68
	470	R 3/8	R 3/4	23072RK	H3072	MZ72
	485	R 3/8	R 3/4	23076RK	H3076	MZ76

[Remark] The structure of certain housings may differ from those shown in the figures.

M

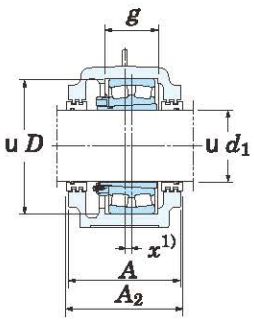
Plummer blocks
split type, large size
SD 31
d_1 150 ~ 300 mm



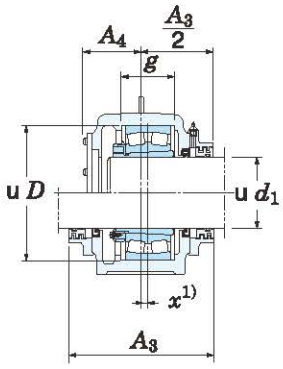
Shaft dia. (mm)	Dimensions (mm)																Housing No.
d_1	D	H	J	J_1	L	A	A_1	A_2	A_3	A_4	H_1	H_2	N	g	t Bolt size	x 1)	
150	280	170	430	100	510	230	180	240	300	120	70	335	28	108	M20	14	SD3134L
160	300	180	450	110	530	240	190	250	310	125	75	355	28	116	M20	15	SD3136L
170	320	190	480	120	560	260	210	270	330	135	80	375	28	124	M24	10	SD3138L
180	340	210	510	130	610	280	230	290	350	145	85	410	35	132	M24	10	SD3140L
200	370	220	540	140	640	290	240	300	360	152	90	435	35	140	M24	12	SD3144L
220	400	240	600	150	700	310	260	320	380	162	95	475	35	148	M30	12	SD3148L
240	440	260	650	160	770	320	280	330	396	170	100	515	42	164	M30	13	SD3152L
260	460	280	670	160	790	320	280	330	396	170	105	550	42	166	M30	16	SD3156L
280	500	300	710	190	830	350	310	360	420	193	110	590	42	180	M30	22	SD3160L
300	540	320	750	200	880	370	330	380	440	203	115	630	42	196	M30	23	SD3164L

[Notes] 1) Dimension x shows the shear between center of bearing and housing.
2) Stabilizing rings are mounted to the fixed side of the SD 31...TS and SD 31 ...TAC series (both sides of bearings).
SD31...L series are locked by housings.

SD31...TS
(With labyrinth seals)



SD31...TAC
(With taconite seal(s))



Stabilizing ring

	Bolt size S	(Refer.) Housing mass (kg)	Grease nipple size	Drain plug size	Applicable bearing No.	Applicable adapter ass'y No.	Applicable stabilizing ring No. 2) Outside diaxWidth	Qty.
	M24	65	R 3/8	R 3/8	23134RHK	H3134	SR280×10	2
	M24	75	R 3/8	R 3/8	23136RK	H3136	SR300×10	2
	M24	95	R 3/8	R 3/8	23138RK	H3138	SR320×10	2
	M30	120	R 3/8	R 3/8	23140RK	H3140	SR340×10	2
	M30	140	R 3/8	R 3/8	23144RK	H3144	SR370×10	2
	M30	180	R 3/8	R 3/8	23148RK	H3148	SR400×10	2
	M36	220	R 3/8	R 1/2	23152RK	H3152	SR440×10	2
	M36	250	R 3/8	R 1/2	23156RK	H3156	SR460×10	2
	M36	300	R 3/8	R 1/2	23160RK	H3160	SR500×10	2
	M36	340	R 3/8	R 3/4	23164RK	H3164	SR540×10	2

[Remark] Use of labyrinth or taconite seals are indicated by TS or TAC suffixed to housing numbers.

M

KOYO

N

【Locknuts, lockwashers & lock plates】

UCIP連座軸承系列

Locknuts, lockwashers & lock plates

Bearings are often fit to a shaft with an adapter sleeve, locknut, lockwasher or lock plate.

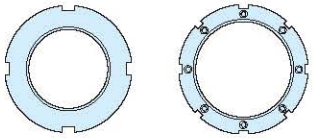
These accessories make it easy to attach and remove bearings.

They are standardized in JIS.

- Locknuts are standardized such that they can be used with either adapter sleeves, withdrawal sleeves or shafts.
- Lockwashers and lock plates are used as locks on locknuts.

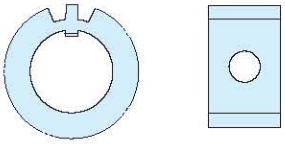
Lockwashers are used with bearings of bore diameter number 40 or lower. Lock plates are used with those of bore diameter 44 or higher.

Locknuts



AN (ANL)	02 – 100
HN (HNL)	41 – 110

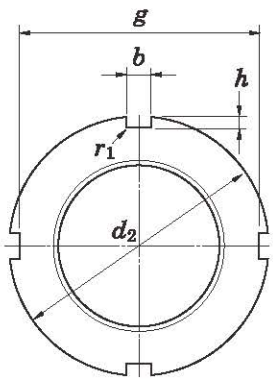
Lockwashers and lock plates

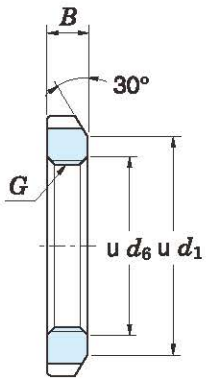


AW (AWL)	00 – 40(X)
AL (ALL)	44 – 100

Locknuts for adapter sleeves and shafts

AN02 ~ 25





Locknut No.	Thread size [1] G	Standard dimensions (mm) d_2	d_1	g	d_6	b	h	B	r_1 max.	(Refer.) Mass (kg)	Applicable [2] adapter sleeve (bore No.)	Applicable [3] lockwasher No.
AN 02	M 15×1	25	21	21	15.5	4	2	5	0.4	0.010	—	AW 02
03	M 17×1	28	24	24	17.5	4	2	5	0.4	0.013	—	03
04	M 20×1	32	26	28	20.5	4	2	6	0.4	0.019	04	04
AN 05	M 25×1.5	38	32	34	25.8	5	2	7	0.4	0.025	05	AW 05
06	M 30×1.5	45	38	41	30.8	5	2	7	0.4	0.043	06	06
07	M 35×1.5	52	44	48	35.8	5	2	8	0.4	0.053	07	07
AN 08	M 40×1.5	58	50	53	40.8	6	2.5	9	0.5	0.085	08	AW 08
09	M 45×1.5	65	56	60	45.8	6	2.5	10	0.5	0.119	09	09
10	M 50×1.5	70	61	65	50.8	6	2.5	11	0.5	0.148	10	10
AN 11	M 55×2	75	67	69	56	7	3	11	0.5	0.158	11	AW 11
12	M 60×2	80	73	74	61	7	3	11	0.5	0.174	12	12
13	M 65×2	85	79	79	66	7	3	12	0.5	0.203	13	13
AN 14	M 70×2	92	85	85	71	8	3.5	12	0.5	0.242	14	AW 14
15	M 75×2	98	90	91	76	8	3.5	13	0.5	0.287	15	15
16	M 80×2	105	95	98	81	8	3.5	15	0.6	0.397	16	16
AN 17	M 85×2	110	102	103	86	8	3.5	16	0.6	0.451	17	AW 17
18	M 90×2	120	108	112	91	10	4	16	0.6	0.556	18	18
19	M 95×2	125	113	117	96	10	4	17	0.6	0.658	19	19
AN 20	M100×2	130	120	122	101	10	4	18	0.6	0.698	20	AW 20
21	M105×2	140	126	130	106	12	5	18	0.7	0.845	21	21
22	M110×2	145	133	135	111	12	5	19	0.7	0.965	22	22
AN 23	M115×2	150	137	140	116	12	5	19	0.7	1.01	—	AW 23
24	M120×2	155	138	145	121	12	5	20	0.7	1.08	24	24
25	M125×2	160	148	150	126	12	5	21	0.7	1.19	—	25

[Notes] 1) Basic profile and dimension of screw thread are in accordance with JIS B 0205.
2) Applicable to adapter sleeve series A31, A2, A3 and A23.
3) Applicable to lockwashers with flat inner tongue.

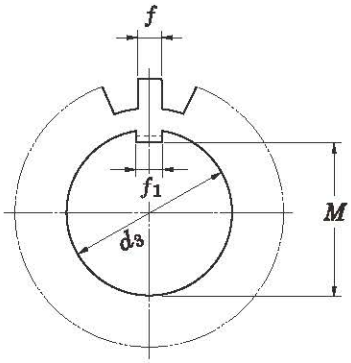
[Remark] Locknut series AN is used for adapter assembly series H2, H3, H23 and H31, while locknut series ANL is used for adapter assembly series H30.

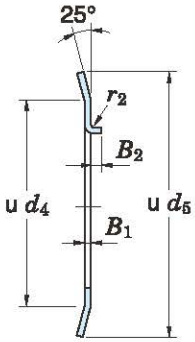
AN 26 ～40
ANL24 ～40

Locknut No.	Thread size [1]	Standard dimensions (mm)								(Refer.) Mass (kg)	Applicable [2] adapter sleeve (bore No.)	Applicable [3] lockwasher No.
	G	d_2	d_1	g	d_6	b	h	B	r_1 max.			
AN 26	M130×2	165	149	155	131	12	5	21	0.7	1.25	26	AW 26
AN 27	M135×2	175	160	163	136	14	6	22	0.7	1.55	—	AW 27
28	M140×2	180	160	168	141	14	6	22	0.7	1.56	28	28
AN 29	M145×2	190	172	178	146	14	6	24	0.7	1.80	—	AW 29
30	M150×2	195	171	183	151	14	6	24	0.7	2.03	30	30
31	M155×3	200	182	186	156.5	16	7	25	0.7	2.30	—	—
AN 32	M160×3	210	182	196	161.5	16	7	25	0.7	2.59	32	AW 32
33	M165×3	210	193	196	166.5	16	7	26	0.7	2.70	—	—
34	M170×3	220	193	206	171.5	16	7	26	0.7	2.80	34	34
AN 36	M180×3	230	203	214	181.5	18	8	27	0.7	3.07	36	AW 36
38	M190×3	240	214	224	191.5	18	8	28	0.7	3.39	38	38
40	M200×3	250	226	234	201.5	18	8	29	0.7	3.69	40	40
ANL24	M120×2	145	133	135	121	12	5	20	0.7	0.78	24	AWL24
26	M130×2	155	143	145	131	12	5	21	0.7	0.88	26	26
28	M140×2	165	151	153	141	14	6	22	0.7	0.99	28	28
ANL30	M150×2	180	164	168	151	14	6	24	0.7	1.33	30	AWL30
32	M160×3	190	174	176	161.5	16	7	25	0.7	1.56	32	32
34	M170×3	200	184	186	171.5	16	7	26	0.7	1.72	34	34
ANL36	M180×3	210	192	194	181.5	18	8	27	0.7	1.95	36	AWL36
38	M190×3	220	202	204	191.5	18	8	28	0.7	2.08	38	38
40	M200×3	240	218	224	201.5	18	8	29	0.7	2.98	40	40

Lockwashers

AW 00 ~ 24 (X)





With bent inner tongue

With flat inner tongue

Lockwasher No.		Standard dimensions (mm)									No. of tooth	(Refer.) Mass (kg/100pcs.)	Applicable adapter sleeve (bore No.)	Applicable locknut No.
With bent inner tongue	With flat inner tongue	d_3	M	f_1	B_1	f	d_4	d_5	r_2	B_2				
AW 00	AW 00X	10	8.5	3	1	3	13	21	0.5	2	9	0.131	—	AN 00
01	01X	12	10.5	3	1	3	17	25	0.5	2	9	0.192	—	01
02	02X	15	13.5	4	1	4	21	28	1	2.5	13	0.253	—	02
AW 03	AW 03X	17	15.5	4	1	4	24	32	1	2.5	13	0.313	—	AN 03
04	04X	20	18.5	4	1	4	26	36	1	2.5	13	0.350	04	04
05	05X	25	23	5	1.2	5	32	42	1	2.5	13	0.640	05	05
AW 06	AW 06X	30	27.5	5	1.2	5	38	49	1	2.5	13	0.780	06	AN 06
07	07X	35	32.5	6	1.2	5	44	57	1	2.5	15	1.04	07	07
08	08X	40	37.5	6	1.2	6	50	62	1	2.5	15	1.23	08	08
AW 09	AW 09X	45	42.5	6	1.2	6	56	69	1	2.5	17	1.52	09	AN 09
10	10X	50	47.5	6	1.2	6	61	74	1	2.5	17	1.60	10	10
11	11X	55	52.5	8	1.2	7	67	81	1	4	17	1.96	11	11
AW 12	AW 12X	60	57.5	8	1.5	7	73	86	1.2	4	17	2.53	12	AN 12
13	13X	65	62.5	8	1.5	7	79	92	1.2	4	19	2.90	13	13
14	14X	70	66.5	8	1.5	8	85	98	1.2	4	19	3.34	14	14
AW 15	AW 15X	75	71.5	8	1.5	8	90	104	1.2	4	19	3.56	15	AN 15
16	16X	80	76.5	10	1.8	8	95	112	1.2	4	19	4.64	16	16
17	17X	85	81.5	10	1.8	8	102	119	1.2	4	19	5.24	17	17
AW 18	AW 18X	90	86.5	10	1.8	10	108	126	1.2	4	19	6.23	18	AN 18
19	19X	95	91.5	10	1.8	10	113	133	1.2	4	19	6.70	19	19
20	20X	100	96.5	12	1.8	10	120	142	1.2	6	19	7.65	20	20
AW 21	AW 21X	105	100.5	12	1.8	12	126	145	1.2	6	19	8.26	21	AN 21
22	22X	110	105.5	12	1.8	12	133	154	1.2	6	19	9.40	22	22
23	23X	115	110.5	12	2	12	137	159	1.5	6	19	10.8	—	23
AW 24	AW 24X	120	115	14	2	12	138	164	1.5	6	19	10.5	24	AN 24

[Remark] 1) AW00~AW40, AW00X~AW40X are applicable to adapter assembly series H31, H2, H3 and H23.
2) AWL24~AWL40, AWL24X~AWL40X are applied to adapter assembly series H30.
3) For adapter sleeves with narrow slits, lockwashers with flat inner tongue should be used. Either type of lockwasher can be used for adapter sleeves with wide slits.

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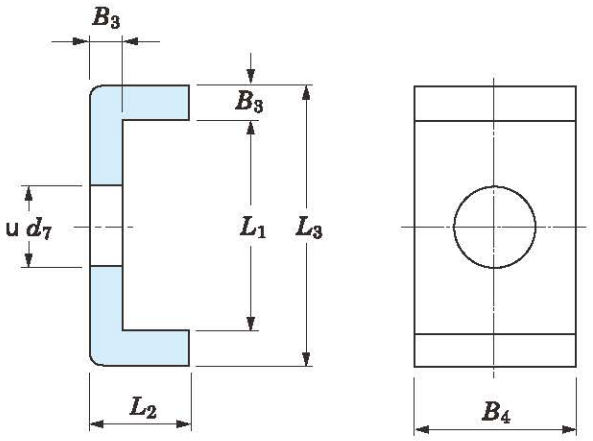
AW 25 ~ 40 (X)
AWL24 ~ 40 (X)

Lockwasher No.		Standard dimensions (mm)									No. of tooth	(Refer.) Mass (kg/100pcs.)	Applicable adapter sleeve (bore No.)	Applicable locknut No.
With bent inner tongue	With flat inner tongue	d_3	M	f_1	B_1	f	d_4	d_5	r_2	B_2				
AW 25	AW 25X	125	120	14	2	12	148	170	1.5	6	19	11.8	—	25
26	26X	130	125	14	2	12	149	175	1.5	6	19	11.3	26	26
AW 27	AW 27X	135	130	14	2	14	160	185	1.5	6	19	14.4	—	AN 27
28	28X	140	135	16	2	14	160	192	1.5	8	19	14.2	28	28
29	29X	145	140	16	2	14	172	202	1.5	8	19	16.8	—	29
AW 30	AW 30X	150	145	16	2	14	171	205	1.5	8	19	15.5	30	AN 30
31	31X	155	147.5	16	2.5	16	182	212	1.5	8	19	20.9	—	31
32	32X	160	154	18	2.5	16	182	217	1.5	8	19	22.2	32	32
AW 33	AW 33X	165	157.5	18	2.5	16	193	222	1.5	8	19	24.1	—	AN 33
34	34X	170	164	18	2.5	16	193	232	1.5	8	19	24.7	34	34
36	36X	180	174	20	2.5	18	203	242	1.5	8	19	26.8	36	36
AW 38	AW 38X	190	184	20	2.5	18	214	252	1.5	8	19	27.8	38	AN 38
40	40X	200	194	20	2.5	18	226	262	1.5	8	19	29.3	40	40
AWL24	AWL24X	120	115	14	2	12	133	155	1.5	6	19	7.70	24	ANL24
26	26X	130	125	14	2	12	143	165	1.5	6	19	8.70	26	26
28	28X	140	135	16	2	14	151	175	1.5	8	19	10.9	28	28
AWL30	AWL30X	150	145	16	2	14	164	190	1.5	8	19	11.3	30	ANL30
32	32X	160	154	18	2.5	16	174	200	1.5	8	19	16.2	32	32
34	34X	170	164	18	2.5	16	184	210	1.5	8	19	19.0	34	34
AWL36	AWL36X	180	174	20	2.5	18	192	220	1.5	8	19	18.0	36	ANL36
38	38X	190	184	20	2.5	18	202	230	1.5	8	19	20.5	38	38
40	40X	200	194	20	2.5	18	218	250	1.5	8	19	21.4	40	40

Lock plates

AL 44 ~ 100

ALL44 ~ 96



Lock plate No.	Standard dimensions (mm) B_3	B_4	L_2	d_7	L_1	L_3	(Refer.) Mass (kg/100pcs.)	Applicable locknut No.
AL 44	4	20	12	9	22.5	30.5	2.60	AN 44,48
52	4	24	12	12	25.5	33.5	3.39	52,56
60	4	24	12	12	30.5	38.5	3.79	60
AL 64	5	24	15	12	31	41	5.35	AN 64
68	5	28	15	14	38	48	6.65	68,72
76	5	32	15	14	40	50	7.96	76
AL 80	5	32	15	18	45	55	8.20	AN 80,84
88	5	36	15	18	43	53	9.00	88,92
96	5	36	15	18	53	63	10.4	96
100	5	40	15	18	45	55	10.5	100
ALL44	4	20	12	7	13.5	21.5	2.12	ANL44
48	4	20	12	9	17.5	25.5	2.29	48,52
56	4	24	12	9	17.5	25.5	2.92	56
ALL60	4	24	12	9	20.5	28.5	3.16	ANL60
64	5	24	15	9	21	31	4.56	64,68
72	5	28	15	9	20	30	5.03	72
ALL76	5	28	15	12	24	34	5.28	ANL76,80
84	5	32	15	12	24	34	6.11	84
88	5	32	15	14	28	38	6.45	88,92
96	5	36	15	14	28	38	7.29	96,100

[Remark] Lock plate series AL are applicable to adapter assembly series H31, H32 and H23, while lock plate series ALL are applicable to H30.