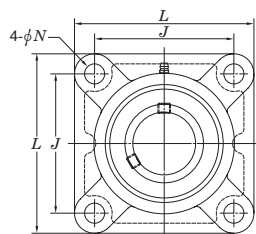
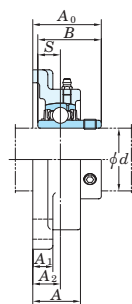
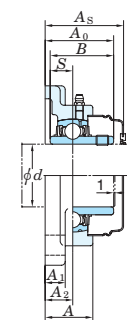


Ball bearing units
square-flanged type
UCF (with set screws)

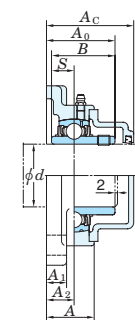
d 12 ~ (55) mm



Pressed steel cover



Cast iron cover



Tolerances for housing

unit : mm

housing No.	ΔA_{2s}	X		
F204- F210	FX05- FX10	F305- F310	± 0.5	0.7
F211- F218	FX11- FX20	F311- F328	± 0.8	1

ΔA_{2s} : deviation of distance from mounting face to centre of spherical bearing seating.

X : positional tolerance of bolt hole.

unit : mm

housing No.	ΔN_s		
F204- F218	FX05- FX18	F305- F315	± 0.2
	FX20	F316- F328	± 0.3

ΔN_s : deviation of bolt hole diameter.

Shaft dia. (mm) <i>d</i>	Dimensions (mm)									Bolt size	Unit No.	Housing No.	Applicable bearing			Unit No. with covers				Cover dimensions (mm)		(Refer.) Unit mass (kg)			
	<i>L</i>	<i>A</i>	<i>J</i>	<i>N</i>	<i>A</i> ₁	<i>A</i> ₂	<i>A</i> ₀	<i>B</i>	<i>S</i>				No.	Basic load ratings (kN)		Factor <i>f</i> ₀	Pressed steel covers		Cast iron covers		<i>A</i> _s	<i>A</i> _c	Pressed steel covers	Cast iron covers	
														<i>C</i> _r	<i>C</i> _{0r}		Open ends	Closed end	Open ends	Closed end					
12	86	25.5	64	12	11	15	33.3	31	12.7	M10	UCF201	F204	UC201	12.8	6.65	13.2	UCF201C	UCF201D	—	—	37	—	0.64	—	
	15	86	25.5	64	12	11	15	33.3	31	12.7	M10	UCF202	F204	UC202	12.8	6.65	13.2	UCF202C	UCF202D	—	—	37	—	0.62	—
		17	86	25.5	64	12	11	15	33.3	31	12.7	M10	UCF203	F204	UC203	12.8	6.65	13.2	UCF203C	UCF203D	—	—	37	—	0.61
20	86	25.5	64	12	11	15	33.3	31	12.7	M10	UCF204	F204	UC204	12.8	6.65	13.2	UCF204C	UCF204D	UCF204FC	UCF204FD	37	46	0.59	0.74	
	25	95	27	70	12	13	16	35.8	34.1	14.3	M10	UCF205	F205	UC205	14.0	7.85	13.9	UCF205C	UCF205D	UCF205FC	UCF205FD	40	49	0.83	1.0
		108	30	83	12	13	18	40.2	38.1	15.9	M10	UCFX05	FX05	UCX05	19.5	11.3	13.9	UCFX05C	UCFX05D	—	—	44	—	1.2	—
	110	29	80	16	13	16	39	38	15	M14	UCF305	F305	UC305	21.2	10.9	12.6	—	—	UCF305C	UCF305D	—	54	1.3	1.6	
30	108	31	83	12	13	18	40.2	38.1	15.9	M10	UCF206	F206	UC206	19.5	11.3	13.9	UCF206C	UCF206D	UCF206FC	UCF206FD	44	53	1.1	1.4	
	117	34	92	16	14	19	44.4	42.9	17.5	M14	UCFX06	FX06	UCX06	25.7	15.4	13.9	UCFX06C	UCFX06D	—	—	49	—	1.6	—	
	125	32	95	16	15	18	44	43	17	M14	UCF306	F306	UC306	26.7	15.0	13.3	—	—	UCF306C	UCF306D	—	59	1.9	2.2	
35	117	34	92	14	15	19	44.4	42.9	17.5	M12	UCF207	F207	UC207	25.7	15.4	13.9	UCF207C	UCF207D	UCF207FC	UCF207FD	49	58	1.5	1.9	
	130	38	102	16	14	21	51.2	49.2	19	M14	UCFX07	FX07	UCX07	29.1	17.8	14.0	UCFX07C	UCFX07D	—	—	55	—	2.0	—	
	135	36	100	19	16	20	49	48	19	M16	UCF307	F307	UC307	33.4	19.3	13.2	—	—	UCF307C	UCF307D	—	64	2.3	2.7	
40	130	36	102	16	15	21	51.2	49.2	19	M14	UCF208	F208	UC208	29.1	17.8	14.0	UCF208C	UCF208D	UCF208FC	UCF208FD	55	64	1.9	2.3	
	137	40	105	19	14	22	52.2	49.2	19	M16	UCFX08	FX08	UCX08	32.7	20.3	14.0	UCFX08C	UCFX08D	—	—	56	—	2.4	—	
	150	40	112	19	17	23	56	52	19	M16	UCF308	F308	UC308	40.7	24.0	13.2	—	—	UCF308C	UCF308D	—	71	3.1	3.6	
45	137	38	105	16	16	22	52.2	49.2	19	M14	UCF209	F209	UC209	32.7	20.3	14.0	UCF209C	UCF209D	UCF209FC	UCF209FD	56	66	2.2	2.6	
	143	40	111	19	14	23	55.6	51.6	19	M16	UCFX09	FX09	UCX09	35.1	23.3	14.4	UCFX09C	UCFX09D	—	—	60	—	2.7	—	
	160	44	125	19	18	25	60	57	22	M16	UCF309	F309	UC309	48.9	29.5	13.3	—	—	UCF309C	UCF309D	—	76	4.0	4.6	
50	143	40	111	16	16	22	54.6	51.6	19	M14	UCF210	F210	UC210	35.1	23.3	14.4	UCF210C	UCF210D	UCF210FC	UCF210FD	59	70.5	2.5	3.0	
	162	44	130	19	20	26	59.4	55.6	22.2	M16	UCFX10	FX10	UCX10	43.4	29.4	14.4	UCFX10C	UCFX10D	—	—	64	—	3.7	—	
	175	48	132	23	19	28	67	61	22	M20	UCF310	F310	UC310	62.0	38.3	13.2	—	—	UCF310C	UCF310D	—	83	5.1	5.9	
55	162	43	130	19	18	25	58.4	55.6	22.2	M16	UCF211	F211	UC211	43.4	29.4	14.4	UCF211C	UCF211D	UCF211FC	UCF211FD	63	74.5	3.4	4.0	

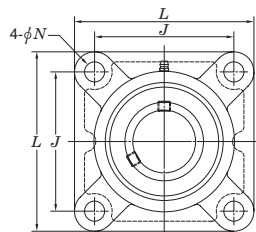
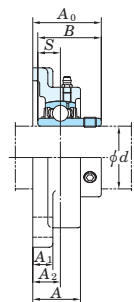
[Remarks] 1) Applicable sizes of grease nipples are shown below.
A-1/4-28UNF 201~210, X05~X09, 305~308
A-PT 1/8 211~218, X10~X20, 309~328

2) For bearings with double- or triple-lip seals, unit and bearing number are suffixed by L2 or L3.
(UCF206JL3, UC206L3)

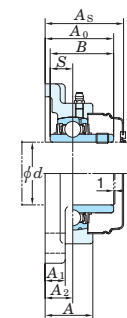
3) For more detailed information, refer to ball bearing for unit specification tables.

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

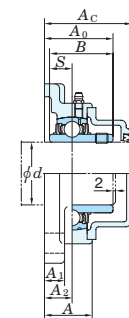
d (55) ~ 95 mm



Pressed steel cover



Cast iron cover



Tolerances for housing

unit : mm

housing No.	ΔA_{2s}	X
F204~F210 FX05~FX10 F305~F310	± 0.5	0.7
F211~F218 FX11~FX20 F311~F328	± 0.8	1

ΔA_{2s} : deviation of distance from mounting face to centre of spherical bearing seating.

X : positional tolerance of bolt hole.

unit : mm

housing No.	ΔN_s
F204~F218 FX05~FX18 F305~F315	± 0.2
FX20 F316~F328	± 0.3

ΔN_s : deviation of bolt hole diameter.

Shaft dia. (mm) <i>d</i>	Dimensions (mm)									Bolt size	Unit No.	Housing No.	Applicable bearing			Unit No. with covers				Cover dimensions (mm)		(Refer.) Unit mass (kg)		
	<i>L</i>	<i>A</i>	<i>J</i>	<i>N</i>	<i>A</i> ₁	<i>A</i> ₂	<i>A</i> ₀	<i>B</i>	<i>S</i>				No.	Basic load ratings (kN)		Factor <i>f</i> ₀	Pressed steel covers		Cast iron covers		<i>A</i> _s	<i>A</i> _c	Pressed steel covers	Cast iron covers
														<i>C</i> _r	<i>C</i> _{0r}		Open ends	Closed end	Open ends	Closed end				
55	175	49	143	19	20	29	68.7	65.1	25.4	M16	UCFX11	FX11	UCX11	52.4	36.2	14.4	UCFX11C	UCFX11D	—	—	73	—	4.9	—
	185	52	140	23	20	30	71	66	25	M20	UCF311	F311	UC311	71.6	45.0	13.2	—	—	UCF311C	UCF311D	—	87	5.6	6.5
60	175	48	143	19	18	29	68.7	65.1	25.4	M16	UCF212	F212	UC212	52.4	36.2	14.4	UCF212C	UCF212D	UCF212FC	UCF212FD	73	86	4.2	5.0
	187	59	149	19	21	34	73.7	65.1	25.4	M16	UCFX12	FX12	UCX12	57.2	40.1	14.4	UCFX12C	UCFX12D	—	—	78	—	5.7	—
	195	56	150	23	22	33	78	71	26	M20	UCF312	F312	UC312	81.9	52.2	13.2	—	—	UCF312C	UCF312D	—	95	6.9	8.1
65	187	50	149	19	22	30	69.7	65.1	25.4	M16	UCF213	F213	UC213	57.2	40.1	14.4	UCF213C	UCF213D	UCF213FC	UCF213FD	74	87	5.2	6.0
	187	59	149	19	21	34	78.4	74.6	30.2	M16	UCFX13	FX13	UCX13	62.2	44.1	14.5	UCFX13C	UCFX13D	—	—	83	—	6.3	—
	208	58	166	23	22	33	78	75	30	M20	UCF313	F313	UC313	92.7	59.9	13.2	—	—	UCF313C	UCF313D	—	94	7.8	8.9
70	193	54	152	19	22	31	75.4	74.6	30.2	M16	UCF214	F214	UC214	62.2	44.1	14.5	UCF214C	UCF214D	UCF214FC	UCF214FD	80	93	5.9	6.8
	197	60	152	23	22	37	81.5	77.8	33.3	M20	UCFX14	FX14	UCX14	67.4	48.3	14.5	UCFX14C	UCFX14D	—	—	86	—	7.0	—
	226	61	178	25	25	36	81	78	33	M22	UCF314	F314	UC314	104	68.2	13.2	—	—	UCF314C	UCF314D	—	98	10.1	11.2
75	200	56	159	19	22	34	78.5	77.8	33.3	M16	UCF215	F215	UC215	67.4	48.3	14.5	UCF215C	UCF215D	UCF215FC	UCF215FD	83	96	6.4	7.4
	197	68	152	23	24	40	89.3	82.6	33.3	M20	UCFX15	FX15	UCX15	72.7	53.0	14.6	UCFX15C	UCFX15D	—	—	94	—	8.4	—
	236	66	184	25	25	39	89	82	32	M22	UCF315	F315	UC315	113	77.2	13.2	—	—	UCF315C	UCF315D	—	106	11.6	12.9
80	208	58	165	23	22	34	83.3	82.6	33.3	M20	UCF216	F216	UC216	72.7	53.0	14.6	UCF216C	UCF216D	UCF216FC	UCF216FD	88	103	7.3	8.5
	214	70	171	23	24	40	91.6	85.7	34.1	M20	UCFX16	FX16	UCX16	84.0	61.9	14.5	UCFX16C	UCFX16D	—	—	96	—	9.4	—
	250	68	196	31	27	38	90	86	34	M27	UCF316	F316	UC316	123	86.7	13.3	—	—	UCF316C	UCF316D	—	107	12.8	14.2
85	220	63	175	23	24	36	87.6	85.7	34.1	M20	UCF217	F217	UC217	84.0	61.9	14.5	UCF217C	UCF217D	UCF217FC	UCF217FD	92	107	8.9	10.3
	214	70	171	23	24	40	96.3	96	39.7	M20	UCFX17	FX17	UCX17	96.1	71.5	14.5	UCFX17C	UCFX17D	—	—	101	—	10.8	—
	260	74	204	31	27	44	100	96	40	M27	UCF317	F317	UC317	133	96.8	13.3	—	—	UCF317C	UCF317D	—	117	15.3	16.9
90	235	68	187	23	25	40	96.3	96	39.7	M20	UCF218	F218	UC218	96.1	71.5	14.5	UCF218C	UCF218D	UCF218FC	UCF218FD	101	116	11.4	12.9
	214	76	171	23	24	45	106.1	104	42.9	M20	UCFX18	FX18	UCX18	109	81.9	14.4	—	—	UCFX18C	UCFX18D	—	124	11.9	13.6
	280	76	216	35	30	44	100	96	40	M30	UCF318	F318	UC318	143	107	13.3	—	—	UCF318C	UCF318D	—	119	18.9	20.8
95	290	94	228	35	30	59	121	103	41	M30	UCF319	F319	UC319	153	119	13.3	—	—	UCF319C	UCF319D	—	140	21.6	23.8

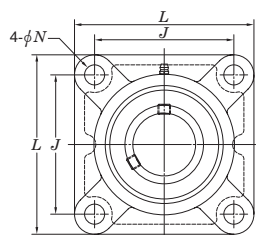
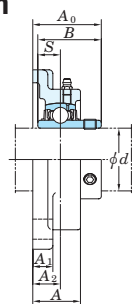
(Remarks) 1) Applicable sizes of grease nipples are shown below.
A-1/4-28UNF 201~210, X05~X09, 305~308
A-PT 1/8 211~218, X10~X20, 309~328

2) For bearings with double- or triple-lip seals, unit and bearing number are suffixed by L2 or L3.
(UCF206JL3, UC206L3)

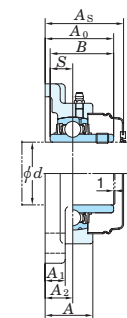
3) For more detailed information, refer to ball bearing for unit specification tables.

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

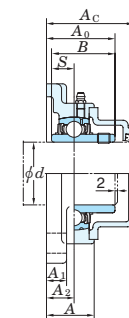
d 100 ~ 140 mm



Pressed steel cover



Cast iron cover



Tolerances for housing

unit : mm

housing No.			ΔA_{2s}	X
F204- F210	FX05- FX10	F305- F310	± 0.5	0.7
F211- F218	FX11- FX20	F311- F328	± 0.8	1

ΔA_{2s} : deviation of distance from mounting face to centre of spherical bearing seating.

X : positional tolerance of bolt hole.

unit : mm

housing No.			ΔN_s
F204- F218	FX05- FX18	F305- F315	± 0.2
	FX20	F316- F328	± 0.3

ΔN_s : deviation of bolt hole diameter.

Shaft dia. (mm) <i>d</i>	Dimensions (mm)									Bolt size	Unit No.	Housing No.	Applicable bearing			Unit No. with covers				Cover dimensions (mm)		Unit mass (kg)		
	<i>L</i>	<i>A</i>	<i>J</i>	<i>N</i>	<i>A</i> ₁	<i>A</i> ₂	<i>A</i> ₀	<i>B</i>	<i>S</i>				No.	Basic load ratings (kN) <i>C</i> _r	<i>C</i> _{0r}	Factor <i>f</i> ₀	Pressed steel covers		Cast iron covers		<i>A</i> _s	<i>A</i> _c	Pressed steel covers	Cast iron covers
	Open ends	Closed end	Open ends	Closed end																				
100	268	97	211	31	28	59	127.3	117.5	49.2	M27	UCFX20	FX20	UCX20	133	105	14.4	—	—	UCFX20C	UCFX20D	—	152	19.4	21.6
	310	94	242	38	32	59	125	108	42	M33				UCF320	F320	UC320	173	141	13.2	—	—	UCF320C	UCF320D	—
105	310	94	242	38	32	59	127	112	44	M33	UCF321	F321	UC321	184	153	13.2	—	—	UCF321C	UCF321D	—	148	30.2	33.2
110	340	96	266	41	35	60	131	117	46	M36	UCF322	F322	UC322	205	180	13.2	—	—	UCF322C	UCF322D	—	154	35.3	41.7
120	370	110	290	41	40	65	140	126	51	M36	UCF324	F324	UC324	207	185	13.5	—	—	UCF324C	UCF324D	—	163	47.3	52.1
130	410	115	320	41	45	65	146	135	54	M36	UCF326	F326	UC326	229	214	13.6	—	—	UCF326C	UCF326D	—	172	65.5	71.6
140	450	125	350	41	55	75	161	145	59	M36	UCF328	F328	UC328	253	246	13.6	—	—	UCF328C	UCF328D	—	186	93.4	101

[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

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.