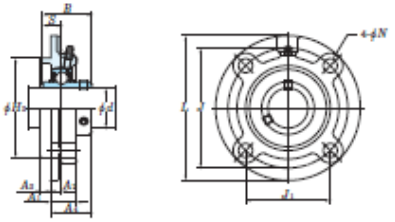
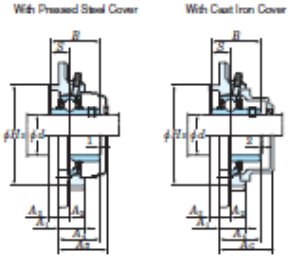
Koyo

UCFC
Cylindrical bore (with set screws)
d 12 ~ 50 mm





Variations of tolerance of spigot joint outside diameter (Δ_{dm}), variations of tolerance of distance from mounting surface to center of spherical bore (Δ_{As}), tolerance of position of bolt hole (X), and tolerance of circumferential runout of spigot joint (Y)

Unit: mm

Housing No.		Δ_{dm}	Δ_{As}	X	Y
FC204–FC206	FCX05	0 −0.008	±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			0.4
	FCX20				

Variations of tolerance of bolt hole diameter (Δ_{Hs})

Unit: mm

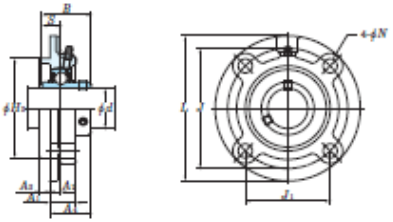
Housing No.		Δ_{Hs}
FC204–FC218	FCX05–FCX20	±0.2

Shaft Dia. mm / inch d	Dimensions inch / mm L	H_2	J	J_1	N	A_1	A_2	A_3	A_4	B	S	Bolt Size inch / mm	Standard Unit No.	Housing No.	Bearing No.	Mass kg	Basic Load Ratings kN C_r	C_{0r}	Fatigue Load Limit kN C_u	Factor f_0	With Pressed Steel Cover Unit No. Open End Type	Closed End Type	Dimension mm / inch A_s	Mass kg	With Cast Iron Cover Unit No. Open End Type	Closed End Type	Dimension mm / inch A_s	Mass kg
12													UCFC201		UC201	0.78					UCFC201C	UCFC201D	32.5 1 9/32	0.78	–	–	–	–
	1/2												UCFC201-8		UC201-8	0.78					–	–	– –	–	–	–	– –	–
15													UCFC202		UC202	0.76					UCFC202C	UCFC202D	32.5 1 9/32	0.76	–	–	– –	–
	5/8	3 11/32	2.4409	3 15/64	2 21/64	13/32	13/16	25/64	13/64	1 1/8	1.220	0.500	UCFC202-10	FC204	UC202-10	0.76	12.8	6.65	0.302	13.2	–	–	– –	–	–	–	– –	–
17		100	62	78	55.1	12	20.5	10	5	28.3	31	12.7	UCFC203		UC203	0.75					UCFC203C	UCFC203D	32.5 1 9/32	0.75	–	–	– –	–
	3/4												UCFC204-12		UC204-12	0.75					–	–	– –	–	–	–	– –	–
20													UCFC204		UC204	0.73					UCFC204C	UCFC204D	32.5 1 9/32	0.73	UCFC204FC	UCFC204FD	41 1 21/32	0.84
25	7/8												UCFC205-14		UC205-14	0.95					–	–	– –	–	–	–	– –	–
	15/16	4 1/32	2.7559	3 29/64	2 1/2	13/32	13/16	25/64	13/64	1 3/16	1.343	0.563	UCFC205-15		UC205-15	0.95					–	–	– –	–	–	–	– –	–
		115	70	90	63.6	12	21	10	6	29.8	34.1	14.3	UCFC205	FC205	UC205	0.95	14.0	7.85	0.357	13.9	UCFC205C	UCFC205D	34.5 1 11/32	0.95	UCFC205FC	UCFC205FD	43 1 23/32	1.1
	1												UCFC205-16		UC205-16	0.95					–	–	– –	–	–	–	– –	–
		4 3/8	2.9921	3 3/4	2 5/16	3/8	13/16	25/64	13/64	1 15/32	1.500	0.626	UCFCX05	FCX05	UCX05	1.2	19.5	11.3	0.514	13.9	UCFCX05C	UCFCX05D	36.5 1 7/16	1.2	–	–	– –	–
	1	111	76	92	65	9.5	24	10	6	32.2	38.1	15.9	UCFCX05-16		UCX05-16	1.2					–	–	– –	–	–	–	– –	–
30	1 1/8												UCFC206-18		UC206-18	1.3					–	–	– –	–	–	–	– –	–
		4 29/32	3.1496	3 15/16	2 25/32	13/32	25/32	25/64	5/16	1 15/32	1.500	0.626	UCFC206	FC206	UC206	1.3	19.5	11.3	0.514	13.9	UCFC206C	UCFC206D	36.5 1 7/16	1.3	UCFC206FC	UCFC206FD	45 1 25/32	1.6
	1 3/16	125	80	100	70.7	12	23	10	8	32.2	38.1	15.9	UCFC206-19		UC206-19	1.3					–	–	– –	–	–	–	– –	–
	1 1/4												UCFC206-20		UC206-20	1.3					–	–	– –	–	–	–	– –	–
		5	3.3465	4 15/64	2 59/64	13/32	7/8	5/16	3/8	1 51/64	1.689	0.689	UCFCX06	FCX06	UCX06	1.5	25.7	15.4	0.700	13.9	UCFCX06C	UCFCX06D	38 1 1/2	1.5	–	–	– –	–
	1 3/16												UCFCX06-19		UCX06-19	1.5					–	–	– –	–	–	–	– –	–
	1 1/4	127	85	105	74.2	12	22.5	8	9.5	33.4	42.9	17.5	UCFCX06-20		UCX06-20	1.5					–	–	– –	–	–	–	– –	–
35	1 1/4												UCFC207-20		UC207-20	1.7					–	–	– –	–	–	–	– –	–
	1 5/16												UCFC207-21		UC207-21	1.7					–	–	– –	–	–	–	– –	–
	1 3/8	5 1/2	3.5433	4 31/64	3 1/16	35/64	1 1/32	7/16	5/16	1 11/16	1.689	0.689	UCFC207-22	FC207	UC207-22	1.7	25.7	15.4	0.700	13.9	–	–	– –	–	–	–	– –	–
		140	90	110	77.8	14	26	11	8	36.4	42.9	17.5	UCFC207		UC207	1.7					UCFC207C	UCFC207D	41 1 5/8	1.7	UCFC207FC	UCFC207FD	50 1 31/32	2.1
	1 7/16												UCFC207-23		UC207-23	1.7					–	–	– –	–	–	–	– –	–
	1 3/8												UCFCX07-22		UCX07-22	1.9					–	–	– –	–	–	–	– –	–
		5 1/4	3.6220	4 3/8	3 5/32	13/32	1 1/32	25/64	7/16	1 17/32	1.937	0.748	UCFCX07	FCX07	UCX07	1.9	29.1	17.8	0.809	14.0	UCFCX07C	UCFCX07D	43.5 1 23/32	1.9	–	–	– –	–
	1 7/16	133	92	111	78.5	12	26	9	11	39.2	49.2	19	UCFCX07-23		UCX07-23	1.9					–	–	– –	–	–	–	– –	–
40	1 1/2												UCFC208-24		UC208-24	2.0					–	–	– –	–	–	–	– –	–
	1 9/16	5 33/64	3.9370	4 25/32	3 11/32	35/64	1 1/32	1/16	25/64	1 5/8	1.937	0.748	UCFC208-25	FC208	UC208-25	2.0	29.1	17.8	0.809	14.0	–	–	– –	–	–	–	– –	–
		145	100	120	84.8	14	26	11	10	41.2	49.2	19	UCFC208		UC208	2.0					UCFC208C	UCFC208D	45.5 1 25/32	2.0	UCFC208FC	UCFC208FD	54 2 1/8	2.4
	1 1/2	5 1/4	3.6220	4 3/8	3 5/32	13/32	1 1/32	25/64	7/16	1 17/32	1.937	0.748	UCFCX08-24	FCX08	UCX08-24	2.0	34.1	21.3	0.968	14.0	–	–	– –	–	–	–	– –	–
		133	92	111	78.5	12	26	9	11	39.2	49.2	19	UCFCX08		UCX08	2.0					UCFCX08C	UCFCX08D	43.5 1 25/32	2.0	–	–	– –	–
45	1 5/8												UCFC209-26		UC209-26	2.6					–	–	– –	–	–	–	– –	–
	1 11/16	6 3/16	4.1339	5 13/64	3 49/64	7/16	1 1/32	25/64	13/32	1 13/16	1.937	0.748	UCFC209-27	FC209	UC209-27	2.6	34.1	21.3	0.968	14.0	–	–	– –	–	–	–	– –	–
	1 3/4	160	105	132	99.3	16	26	10	12	40.2	49.2	19	UCFC209-28		UC209-28	2.6					–	–	– –	–	–	–	– –	–
													UCFC209		UC209	2.6					UCFC209C	UCFC209D	44.5 1 3/4	2.6	UCFC209FC	UCFC209FD	54 2 1/8	3.0
	1 3/4	6 29/32	4.2520	5 1/4	3 5/16	35/64	1 21/32	9/16	13/32	1 29/32	2.031	0.748	UCFCX09-28	FCX09	UCX09-28	2.6	35.1	23.3	1.06	14.4	–	–	– –	–	–	–	– –	–
		155	108	130	91.9	14	25	8	12	40.6	51.6	19	UCFCX09		UCX09	2.6					UCFCX09C	UCFCX09D	45 1 25/32	2.6	–	–	– –	–
50	1 7/8												UCFC210-30		UC210-30	2.9					–	–	– –	–	–	–	– –	–
	1 15/16	6 1/2	4.3307	5 1/16	3 23/32	9/16	1 13/32	25/64	13/32	1 11/16	2.031	0.748	UCFC210-31	FC210	UC210-31	2.9	35.1	23.3	1.06	14.4	–	–	– –	–	–	–	– –	–
		165	110	138	97.6	16	28	10	12	42.6	51.6	19	UCFC210		UC210	2.9					UCFC210C	UCFC210D	47 1 27/32	2.9	UCFC210FC	UCFC210FD	58.5 2 5/16	3.4
	2												UCFC210-32		UC210-32	2.9					–	–	– –	–	–	–	– –	–
	1 15/16	6 3/8	4.6457	5 29/64	3 25/32	35/64	1 21/32	9/32	9/16	1 29/32	2.189	0.874	UCFCX10-31	FCX10	UCX10-31	3.2	43.4	29.4	1.34	14.4	–	–	– –	–	–	–	– –	–
		162	118	136	96.2	14	25	7	16	40.4	55.6	22.2	UCFCX10		UCX10	3.2					UCFCX10C	UCFCX10D	45 1 25/32	3.2	–	–	– –	–
	2												UCFCX10-32		UCX10-32	3.2					–	–	– –	–	–	–	– –	–

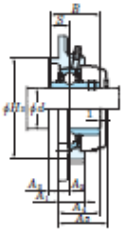
Remarks 1. In Part No. of unit and units with covers, fitting codes follow bore diameter numbers. (See **Table 2.5** in P.11.)
2. Part No. of applicable grease nipples are shown below.
A-1/4-28UNF 201–210, X05–X09
A-R1/8 .....211–218, X10–X20
3. As for the triple-lip seal type product (from 201 to 205 are the double-lip seal type products), supplementary code L3 (L2) follows the Part No. of unit or bearing. (Example of Part No. : UCFC206JL3, UC206L3)
4. For the dimensions and forms of applicable bearings, see the dimensional tables of ball bearing for unit.
5. Housings of spheroidal graphite iron casting are also available.

Koyo

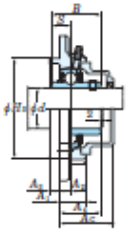
UCFC
Cylindrical bore (with set screws)
d 55 ~ 100 mm



With Pressed Steel Cover



With Cast Iron Cover



Variations of tolerance of spigot joint outside diameter (Δ_{dm}), variations of tolerance of distance from mounting surface to center of spherical bore (Δ_{As}), tolerance of position of bolt hole (X), and tolerance of circumferential runout of spigot joint (Y)

Unit: mm

Housing No.		Δ_{dm}	Δ_{As}	X	Y
FC204–FC208	FC005	0 −0.046	±0.5	0.7	0.2
FC207–FC210	FC006–FC010	0 −0.054			
FC211–FC217	FC011–FC015	0 −0.063	±0.8	1	0.3
FC218	FC016–FC018	0 −0.072			0.4
	FC020				

Variations of tolerance of bolt hole diameter (Δ_{dH})

Unit: mm

Housing No.	Δ_{dH}
FC204–FC218	FC005–FC020	±0.2

Shaft Dia. mm / inch d		Dimensions inch / mm L	Hs	J	J1	N	A1	A2	A3	A4	B	S	Bolt Size inch / mm	Standard Unit No.	Housing No.	Bearing No.	Mass kg	Basic Load Ratings kN Cr	Cor	Fatigue Load Limit kN Cu	Factor fo	With Pressed Steel Cover Unit No. Open End Type	Closed End Type	Dimension mm / inch A	Mass kg	With Cast Iron Cover Unit No. Open End Type	Closed End Type	Dimension mm / inch A	Mass kg
55	2	7 9/32	4.9213	5 25/32	4 11/64	3/4	1 7/32	39/64	15/32	1 13/16	2.189	0.874	5/8	UCFC211-32	FC211	UC211-32	4.2	43.4	29.4	1.34	14.4	–	–	– –	–	–	–	– –	–
	2 1/8	185	125	150	106.1	19	31	13	12	46.4	55.6	22.2	M16	UCFC211-34		UC211-34	4.2					–	–	– –	–	–	–	– –	–
														UCFC211		UC211	4.2					UCFC211C	UCFC211D	5.1 2	4.2	UCFC211FC	UCFC211FD	62.5 2 15/32	4.8
	2 5/16													UCFC211-35		UC211-35	4.2					–	–	– –	–	–	–	– –	–
	2 5/16	7 3/32	5	5 49/64	4 15/64	3/4	1 1/32	5/32	39/64	1 25/32	2.563	1.000	1/2	UCFCX11	FCX11	UCX11	4.3	52.4	36.2	1.65	14.4	UCFC011C	UCFCX11D	48.5 1 29/32	4.3	–	–	– –	–
		180	127	152	107.5	16	26	4	22	43.7	65.1	25.4	M14	UCFCX11-35		UCX11-35	4.3					–	–	– –	–	–	–	– –	–
	2 1/4													UCFCX11-36		UCX11-36	4.3					–	–	– –	–	–	–	– –	–
60	2 1/4													UCFC212-36	FC212	UC212-36	5.0	52.4	36.2	1.65	14.4	–	–	– –	–	–	–	– –	–
		7 11/16	5.3150	6 13/64	4 39/64	3/4	1 13/32	45/64	15/32	2 1/32	2.563	1.000	5/8	UCFC212		UC212	5.0					UCFC212C	UCFC212D	61.5 2 1/32	5.0	UCFC212FC	UCFC212FD	74 2 29/32	5.8
	2 3/8	195	135	160	113.1	19	36	17	12	56.7	65.1	25.4	M16	UCFC212-38		UC212-38	5.0					–	–	– –	–	–	–	– –	–
	2 7/16													UCFC212-39		UC212-39	5.0					–	–	– –	–	–	–	– –	–
	2 5/16	7 3/4	5.5118	6 1/2	4 15/32	3/4	1 5/16	7/16	39/64	2	2.563	1.000	1/2	UCFCX12	FCX12	UCX12	5.3	57.2	40.1	1.82	14.4	UCFC012C	UCFCX12D	55.5 2 3/16	5.3	–	–	– –	–
		194	140	165	116.7	16	33	11	20	50.7	65.1	25.4	M14	UCFCX12-39		UCX12-39	5.3					–	–	– –	–	–	–	– –	–
65	2 1/2	8 1/16	5.7087	6 11/16	4 47/64	3/4	1 13/32	5/8	39/64	2 5/16	2.563	1.000	5/8	UCFC213-40	FC213	UC213-40	5.6	57.2	40.1	1.82	14.4	–	–	– –	–	–	–	– –	–
		205	145	170	120.2	19	36	16	14	55.7	65.1	25.4	M16	UCFC213C	UCFC213D	UC213	5.6					UCFC213C	UCFC213D	60.5 2 3/8	5.6	UCFC213FC	UCFC213FD	73 2 7/8	6.4
	2 1/2	7 5/8	5.5118	6 1/2	4 15/32	3/4	1 5/16	7/16	39/64	2 5/16	2.937	1.189	1/2	UCFCX13-40	FCX13	UCX13-40	5.7	62.2	44.1	2.01	14.5	–	–	– –	–	–	–	– –	–
		194	140	165	116.7	16	33	11	20	55.4	74.6	30.2	M14	UCFCX13		UCX13	5.7					UCFC013C	UCFCX13D	60.5 2 3/8	5.7	–	–	– –	–
70	2 3/4	8 15/32	5.9055	6 31/32	4 59/64	3/4	1 9/16	45/64	39/64	2 13/32	2.937	1.189	5/8	UCFC214-44	FC214	UC214-44	6.8	62.2	44.1	2.01	14.5	–	–	– –	–	–	–	– –	–
		215	150	177	125.1	19	40	17	14	61.4	74.6	30.2	M16	UCFC214		UC214	6.8					UCFC214C	UCFC214D	66.5 2 5/8	6.8	UCFC214FC	UCFC214FD	79 3 1/8	7.7
	2 3/4	8 3/4	6.4567	7 31/64	5 5/32	3/4	1 13/32	29/64	39/64	2 5/16	3.063	1.331	3/4	UCFCX14-44	FCX14	UCX14-44	7.3	67.4	48.3	2.17	14.5	–	–	– –	–	–	–	– –	–
		222	164	190	134.3	19	36	14	20	58.5	77.8	33.3	M16	UCFCX14		UCX14	7.3					UCFC014C	UCFCX14D	63.5 2 1/2	7.3	–	–	– –	–
75	2 15/16	8 21/32	6.2992	7 1/4	5 1/8	3/4	1 9/16	45/64	1/2	2 13/32	3.063	1.331	3/4	UCFC215-47	FC215	UC215-47	7.2	67.4	48.3	2.17	14.5	–	–	– –	–	–	–	– –	–
		220	160	184	130.1	19	40	18	16	62.5	77.8	33.3	M16	UCFC215		UC215	7.2					UCFC215C	UCFC215D	67.5 2 21/32	7.2	UCFC215FC	UCFC215FD	80 3 5/32	8.2
	3													UCFC215-48		UC215-48	7.2					–	–	– –	–	–	–	– –	–
	2 15/16	8 3/4	6.4567	7 31/64	5 5/32	3/4	1 5/16	13/32	39/64	2 13/32	3.252	1.311	3/4	UCFCX15-47	FCX15	UCX15-47	8.0	72.7	53.0	2.30	14.6	–	–	– –	–	–	–	– –	–
		222	164	190	134.3	19	35	12	22	61.3	82.6	33.3	M16	UCFCX15		UCX15	8.0					UCFC015C	UCFCX15D	66.5 2 5/8	8.0	–	–	– –	–
	3													UCFCX15-48		UCX15-48	8.0					–	–	– –	–	–	–	– –	–
80	3 1/8	9 1/16	6.6929	7 1/2	5 1/16	29/32	1 33/32	45/64	1/2	2 21/32	3.252	1.311	3/4	UCFC216-50	FC216	UC216-50	8.7	72.7	53.0	2.30	14.6	–	–	– –	–	–	–	– –	–
		240	170	200	141.4	23	42	18	16	67.3	82.6	33.3	M20	UCFC216		UC216	8.7					UCFC216C	UCFC216D	72.5 2 27/32	8.7	UCFC216FC	UCFC216FD	87 3 7/16	9.9
	–	10 1/4	7.3228	8 1/8	6 1/32	29/32	1 13/32	29/64	49/64	2 11/16	3.374	1.343	3/4	UCFCX16	FCX16	UCX16	11.3	84.0	61.9	2.60	14.5	UCFC016C	UCFCX16D	66.5 2 5/8	11.3	–	–	– –	–
		260	186	219	154.8	23	36	10	25	61.6	85.7	34.1	M20																
85	3 1/4	9 21/32	7.0866	8 1/16	5 31/64	29/32	1 29/32	45/64	49/64	2 3/4	3.374	1.343	3/4	UCFC217-52	FC217	UC217-52	10.3	84.0	61.9	2.60	14.5	–	–	– –	–	–	–	– –	–
		250	180	208	147.1	23	45	18	18	69.6	85.7	34.1	M20	UCFC217		UC217	10.3					UCFC217C	UCFC217D	74.5 2 15/16	10.3	UCFC217FC	UCFC217FD	89 3 1/2	11.7
		10 1/4	7.3228	8 1/8	6 1/32	29/32	1 13/32	29/64	49/64	2 1/8	3.780	1.563	3/4	UCFCX17	FCX17	UCX17	12.9	96.1	71.5	2.91	14.5	UCFC017C	UCFCX17D	71.5 2 13/16	12.9	–	–	– –	–
	3 5/16	260	186	219	154.8	23	36	10	25	66.3	96	39.7	M20	UCFCX17-55		UCX17-55	12.9					–	–	– –	–	–	–	– –	–
90	3 1/2	10 1/16	7.4803	8 21/32	6 1/8	29/32	1 29/32	29/64	49/64	3 3/32	3.780	1.563	3/4	UCFC218-56	FC218	UC218-56	13.3	96.1	71.5	2.91	14.5	–	–	– –	–	–	–	– –	–
		265	190	220	155.5	23	50	22	18	78.3	96	39.7	M20	UCFC218		UC218	13.3					UCFC218C	UCFC218D	83.5 3 5/32	13.3	UCFC218FC	UCFC218FD	98 3 27/32	14.8
	–	10 1/4	7.3228	8 1/8	6 1/32	29/32	1 11/16	11/32	1 1/64	2 1/8	4.094	1.689	3/4	UCFCX18	FCX18	UCX18	13.5	109	81.9	3.23	14.4	–	–	– –	–	UCFC018C	UCFCX18D	92 3 5/8	15.4
		260	186	219	154.8	23	43	12	28	73.1	104	42.9	M20																
100	3 15/16	10 7/8	8.1102	9 3/8	6 5/8	29/32	2 15/32	39/64	1 7/64	3 5/16	4.626	1.937	3/4	UCFCX20	FCX20	UCX20	18.2	133	105	3.91	14.4	–	–	– –	–	UCFC020C	UCFCX20D	116 4 9/16	20.7
	4	276	206	238	168.3	23	66	22	28	90.3	117.5	49.2	M20	UCFCX20-63		UCX20-63	18.2					–	–	– –	–	–	–	– –	–
														UCFCX20-64		UCX20-64	18.2					–	–	– –	–	–	–	– –	–

Remarks 1. In Part No. of unit and units with covers, fitting codes follow bore diameter numbers. (See **Table 2.5** in P.11.)
2. Part No. of applicable grease nipples are shown below.
A-1/4-28UNF 201–210, X05–X09
A-R1/8 ..... 211–218, X10–X20
3. As for the triple-lip seal type product (from 201 to 205 are the double-lip seal type products), supplementary code L3 (L2) follows the Part No. of unit or bearing. (Example of Part No. : UCFC206JL3, UC206L3)
4. For the dimensions and forms of applicable bearings, see the dimensional tables of ball bearing for unit.
5. Housings of spheroidal graphite iron casting are also available.