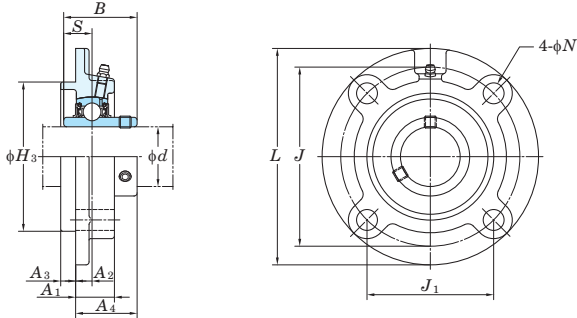


UCFC
Cylindrical bore (with set screws)
d 12 ~ 100 mm



Variations of tolerance of spigot joint outside diameter (ΔH_{3a}), variations of tolerance of distance from mounting surface to center of spherical bore (ΔA_{2a}), tolerance of position of bolt hole (X), and tolerance of circumferential runout of spigot joint (Y)

Housing No.		ΔH_{3a}	ΔA_{2a}	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 FCX20	0 -0.072			

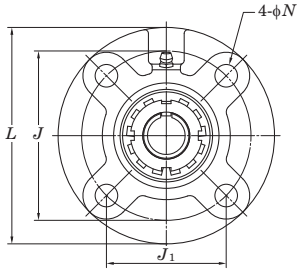
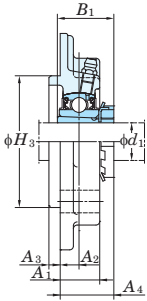
Variations of tolerance of bolt hole diameter (ΔN_s)

Housing No.		ΔN_s
FC204~FC218	FCX05~FCX20	±0.2

Shaft Dia. mm inch		Dimensions inch mm											Bolt Size inch mm	Unit No.	Housing No.	Bearing No.	Mass kg
d		L	H_3	J	J_1	N	A_1	A_2	A_3	A_4	B	S					
12 15 17 20	1/2													UCFC201 UCFC201-8 UCFC202 UCFC202-10 UCFC203 UCFC204-12 UCFC204	FC204	UC201 UC201-8 UC202 UC202-10 UC203 UC204-12 UC204	0.78 0.78 0.76 0.76 0.75 0.75 0.73
	5/8	3 15/16	2.441	3 5/64	2 11/64	15/32	13/16	25/64	13/64	1 1/8	1.220	0.500	3/8				
		100	62	78	55.1	12	20.5	10	5	28.3	31	12.7	M10				
	3/4																
25	7/8													UCFC205-14 UCFC205-15 UCFC205 UCFC205-16	FC205	UC205-14 UC205-15 UC205 UC205-16	0.95 0.95 0.95 0.95
	15/16	4 17/32	2.756	3 35/64	2 1/2	15/32	13/16	25/64	15/64	1 3/16	1.343	0.563	3/8				
		115	70	90	63.6	12	21	10	6	29.8	34.1	14.3	M10				
	1																
30	1 1/8													UCFCX05 UCFCX05-16 UCFCX05-16	FCX05	UCX05 UCX05-16 UCX05-16	1.2 1.2 1.2
		4 3/8	2.992	3 5/8	2 9/16	3/8	15/16	25/64	15/64	1 9/32	1.500	0.626	5/16				
		111	76	92	65	9.5	24	10	6	32.2	38.1	15.9	M8				
	1 1/4																
35	1 5/16													UCFC206 UCFC206-19 UCFC206-20	FC206	UC206 UC206-19 UC206-20	1.3 1.3 1.3
		4 29/32	3.150	3 15/16	2 25/32	15/32	29/32	25/64	5/16	1 9/32	1.500	0.626	3/8				
		125	80	100	70.7	12	23	10	8	32.2	38.1	15.9	M10				
	1 3/4																
40	1 7/16													UCFCX06 UCFCX06-19 UCFCX06-20	FCX06	UCX06 UCX06-19 UCX06-20	1.5 1.5 1.5
		5	3.347	4 9/64	2 59/64	15/32	7/8	5/16	3/8	1 5/16	1.689	0.689	3/8				
		127	85	105	74.2	12	22.5	8	9.5	33.4	42.9	17.5	M10				
	1 1/2																
45	1 5/8													UCFC207-20 UCFC207-21 UCFC207-22 UCFC207 UCFC207-23	FC207	UC207-20 UC207-21 UC207-22 UC207 UC207-23	1.7 1.7 1.7 1.7 1.7
		5 5/16	3.543	4 21/64	3 1/16	35/64	1 1/32	7/16	5/16	1 7/16	1.689	0.689	7/16				
		135	90	110	77.8	14	26	11	8	36.4	42.9	17.5	M12				
	1 3/4																
50	1 7/8													UCFCX07-22 UCFCX07 UCFCX07-23	FCX07	UCX07-22 UCX07 UCX07-23	1.9 1.9 1.9
		5 1/4	3.622	4 3/8	3 3/32	15/32	1 1/32	23/64	7/16	1 17/32	1.937	0.748	3/8				
		133	92	111	78.5	12	26	9	11	39.2	49.2	19	M10				
	1 1/2																
55	1 1/2													UCFC208-24 UCFC208-25 UCFC208	FC208	UC208-24 UC208-25 UC208	2.0 2.0 2.0
		5 23/32	3.937	4 23/32	3 11/32	35/64	1 1/32	7/16	25/64	1 5/8	1.937	0.748	7/16				
		145	100	120	84.8	14	26	11	10	41.2	49.2	19	M12				
	1 3/4																
60	1 5/8													UCFCX08-24 UCFCX08	FCX08	UCX08-24 UCX08	2.0 2.0
		5 1/4	3.622	4 3/8	3 3/32	15/32	1 1/32	23/64	7/16	1 17/32	1.937	0.748	3/8				
		133	92	111	78.5	12	26	9	11	39.2	49.2	19	M10				
	1 1/2																
65	1 5/8													UCFC209-26 UCFC209-27 UCFC209-28 UCFC209	FC209	UC209-26 UC209-27 UC209-28 UC209	2.6 2.6 2.6 2.6
		6 5/16	4.134	5 13/64	3 43/64	5/8	1 1/32	25/64	15/32	1 19/32	1.937	0.748	1/2				
		160	105	132	93.3	16	26	10	12	40.2	49.2	19	M14				
	1 3/4																
70	1 7/8													UCFCX09-27 UCFCX09-28 UCFCX09	FCX09	UCX09-27 UCX09-28 UCX09	2.6 2.6 2.6
		6 3/32	4.252	5 1/8	3 5/8	35/64	31/32	5/16	15/32	1 19/32	2.031	0.748	7/16				
		155	108	130	91.9	14	25	8	12	40.6	51.6	19	M12				
	1 1/2																
75	1 5/8													UCFC210-30 UCFC210-31 UCFC210 UCFC210-32	FC210	UC210-30 UC210-31 UC210 UC210-32	2.9 2.9 2.9 2.9
		6 1/2	4.331	5 7/16	3 27/32	5/8	1 3/32	25/64	15/32	1 11/16	2.031	0.748	1/2				
		165	110	138	97.6	16	28	10	12	42.6	51.6	19	M14				
	1 1/2																

Shaft Dia. mm inch		Dimensions inch mm											Bolt Size inch mm	Unit No.	Housing No.	Bearing No.	Mass
<i>d</i>		<i>L</i>	<i>H</i> ₃	<i>J</i>	<i>J</i> ₁	<i>N</i>	<i>A</i> ₁	<i>A</i> ₂	<i>A</i> ₃	<i>A</i> ₄	<i>B</i>	<i>S</i>					kg
50	1 ¹⁵ / ₁₆	6 ³ / ₈	4.646	5 ²³ / ₆₄	3 ²⁵ / ₃₂	35/ ₆₄	31/ ₃₂	9/ ₃₂	5/ ₈	1 ¹⁹ / ₃₂	2.189	0.874	7/ ₁₆	UCFCX10-31 UCFCX10 UCFCX10-32	FCX10	UCX10-31 UCX10 UCX10-32	3.2 3.2 3.2
	2	162	118	136	96.2	14	25	7	16	40.4	55.6	22.2	M12				
55	2													UCFC211-32 UCFC211-34 UCFC211 UCFC211-35	FC211	UC211-32 UC211-34 UC211 UC211-35	4.2 4.2 4.2 4.2
	2 ¹ / ₈	7 ⁹ / ₃₂	4.921	5 ²⁹ / ₃₂	4 ¹¹ / ₆₄	3/ ₄	1 ⁷ / ₃₂	33/ ₆₄	15/ ₃₂	1 ¹³ / ₁₆	2.189	0.874	5/ ₈				
		185	125	150	106.1	19	31	13	12	46.4	55.6	22.2	M16				
60	2 ³ / ₁₆	7 ³ / ₃₂	5.000	5 ⁶³ / ₆₄	4 ¹⁵ / ₆₄	5/ ₈	1 ¹ / ₃₂	5/ ₃₂	55/ ₆₄	1 ²³ / ₃₂	2.563	1.000	1/ ₂	UCFCX11 UCFCX11-35 UCFCX11-36	FCX11	UCX11 UCX11-35 UCX11-36	4.3 4.3 4.3
	2 ¹ / ₄													UCFC212-36 UCFC212 UCFC212-38 UCFC212-39	FC212	UC212-36 UC212 UC212-38 UC212-39	5.0 5.0 5.0 5.0
	2 ³ / ₈	7 ¹¹ / ₁₆	5.315	6 ¹⁹ / ₆₄	4 ²⁹ / ₆₄	3/ ₄	1 ¹³ / ₃₂	43/ ₆₄	15/ ₃₂	2 ⁷ / ₃₂	2.563	1.000	5/ ₈				
		195	135	160	113.1	19	36	17	12	56.7	65.1	25.4	M16				
65	2 ⁷ / ₁₆	7 ⁵ / ₈	5.512	6 ¹ / ₂	4 ¹⁹ / ₃₂	5/ ₈	1 ⁵ / ₁₆	7/ ₁₆	25/ ₃₂	2	2.563	1.000	1/ ₂	UCFCX12 UCFCX12-39	FCX12	UCX12 UCX12-39	5.3 5.3
	2 ¹ / ₂	8 ¹ / ₁₆	5.709	6 ¹¹ / ₁₆	4 ⁴⁷ / ₆₄	3/ ₄	1 ¹³ / ₃₂	5/ ₈	35/ ₆₄	2 ³ / ₁₆	2.563	1.000	5/ ₈	UCFC213-40 UCFC213	FC213	UC213-40 UC213	5.6 5.6
	2 ¹ / ₂	7 ⁵ / ₈	5.512	6 ¹ / ₂	4 ¹⁹ / ₃₂	5/ ₈	1 ⁵ / ₁₆	7/ ₁₆	25/ ₃₂	2 ³ / ₁₆	2.937	1.189	1/ ₂	UCFCX13-40 UCFCX13	FCX13	UCX13-40 UCX13	5.7 5.7
		194	140	165	116.7	16	33	11	20	55.4	74.6	30.2	M14				
70	2 ³ / ₄	8 ¹⁵ / ₃₂	5.906	6 ³¹ / ₃₂	4 ⁵⁹ / ₆₄	3/ ₄	1 ⁹ / ₁₆	43/ ₆₄	35/ ₆₄	2 ¹³ / ₃₂	2.937	1.189	5/ ₈	UCFC214-44 UCFC214	FC214	UC214-44 UC214	6.8 6.8
	2 ³ / ₄	8 ³ / ₄	6.457	7 ³¹ / ₆₄	5 ⁹ / ₃₂	3/ ₄	1 ¹³ / ₃₂	35/ ₆₄	25/ ₃₂	2 ⁵ / ₁₆	3.063	1.331	5/ ₈	UCFCX14-44 UCFCX14	FCX14	UCX14-44 UCX14	7.3 7.3
		222	164	190	134.3	19	36	14	20	58.5	77.8	33.3	M16				
75	2 ¹⁵ / ₁₆	8 ²¹ / ₃₂	6.299	7 ¹ / ₄	5 ¹ / ₈	3/ ₄	1 ⁹ / ₁₆	45/ ₆₄	5/ ₈	2 ¹⁵ / ₃₂	3.063	1.331	5/ ₈	UCFC215-47 UCFC215 UCFC215-48	FC215	UC215-47 UC215 UC215-48	7.2 7.2 7.2
	3	220	160	184	130.1	19	40	18	16	62.5	77.8	33.3	M16				
	2 ¹⁵ / ₁₆	8 ³ / ₄	6.457	7 ³¹ / ₆₄	5 ⁹ / ₃₂	3/ ₄	1 ³ / ₈	15/ ₃₂	55/ ₆₄	2 ¹³ / ₃₂	3.252	1.311	5/ ₈	UCFCX15-47 UCFCX15 UCFCX15-48	FCX15	UCX15-47 UCX15 UCX15-48	8.0 8.0 8.0
80	3 ¹ / ₈	9 ⁷ / ₁₆	6.693	7 ⁷ / ₈	5 ⁹ / ₁₆	29/ ₃₂	1 ²¹ / ₃₂	45/ ₆₄	5/ ₈	2 ²¹ / ₃₂	3.252	1.311	3/ ₄	UCFC216-50 UCFC216	FC216	UC216-50 UC216	8.7 8.7
	—	10 ¹ / ₄	7.323	8 ⁵ / ₈	6 ³ / ₃₂	29/ ₃₂	1 ¹³ / ₃₂	25/ ₆₄	63/ ₆₄	2 ⁷ / ₁₆	3.374	1.343	3/ ₄	UCFCX16	FCX16	UCX16	11.3
85	3 ¹ / ₄	9 ²⁷ / ₃₂	7.087	8 ³ / ₁₆	5 ⁵¹ / ₆₄	29/ ₃₂	1 ²⁵ / ₃₂	45/ ₆₄	45/ ₆₄	2 ³ / ₄	3.374	1.343	3/ ₄	UCFC217-52 UCFC217	FC217	UC217-52 UC217	10.3 10.3
		250	180	208	147.1	23	45	18	18	69.6	85.7	34.1	M20				
	3 ⁷ / ₁₆	10 ¹ / ₄	7.323	8 ⁵ / ₈	6 ³ / ₃₂	29/ ₃₂	1 ¹³ / ₃₂	25/ ₆₄	63/ ₆₄	2 ⁵ / ₈	3.780	1.563	3/ ₄	UCFCX17 UCFCX17-55	FCX17	UCX17 UCX17-55	12.9 12.9
90	3 ¹ / ₂	10 ⁷ / ₁₆	7.480	8 ²¹ / ₃₂	6 ¹ / ₈	29/ ₃₂	1 ³¹ / ₃₂	55/ ₆₄	45/ ₆₄	3 ³ / ₃₂	3.780	1.563	3/ ₄	UCFC218-56 UCFC218	FC218	UC218-56 UC218	13.3 13.3
		265	190	220	155.5	23	50	22	18	78.3	96	39.7	M20				
	—	10 ¹ / ₄	7.323	8 ⁵ / ₈	6 ³ / ₃₂	29/ ₃₂	1 ¹¹ / ₁₆	15/ ₃₂	1 ⁷ / ₆₄	2 ⁷ / ₈	4.094	1.689	3/ ₄	UCFCX18	FCX18	UCX18	13.5
100	3 ¹⁵ / ₁₆	10 ⁷ / ₈	8.110	9 ³ / ₈	6 ⁵ / ₈	29/ ₃₂	2 ¹⁹ / ₃₂	55/ ₆₄	1 ⁷ / ₆₄	3 ⁹ / ₁₆	4.626	1.937	3/ ₄	UCFCX20 UCFCX20-63 UCFCX20-64	FCX20	UCX20 UCX20-63 UCX20-64	18.2 18.2 18.2
	4	276	206	238	168.3	23	66	22	28	90.3	117.5	49.2	M20				

UKFC
Tapered bore (with adapter)
d₁ 20 ~ 90 mm



Variations of tolerance of spigot joint outside diameter (ΔH_{3a}), variations of tolerance of distance from mounting surface to center of spherical bore (ΔA_{2a}), tolerance of position of bolt hole (X), and tolerance of circumferential runout of spigot joint (Y)

Housing No.		ΔH_{3a}	ΔA_{2a}	X	Y
FC205~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 FCX20	0 -0.072			

Variations of tolerance of bolt hole diameter (ΔN_s)

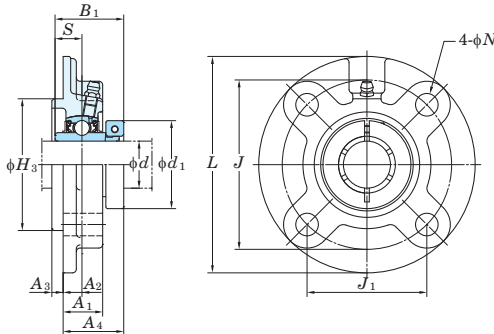
Housing No.		ΔN_s
FC205~FC218	FCX05~FCX20	±0.2

Shaft Dia. mm inch		Dimensions inch mm										Bolt Size	Unit No.	Housing No.	Bearing No.	Adapter No.	Mass
d ₁		L	H ₃	J	J ₁	N	A ₁	A ₂	A ₃	A ₄	B ₁	inch mm					kg
20	3/4	4 17/32	2.756	3 35/64	2 1/2	15/32	13/16	25/64	15/64	1 3/16	1 3/8	3/8	UKFC205	FC205	UK205	HE2305X H2305X	0.99 0.99
	3/4	4 3/8	2.992	3 3/8	2 9/16	3/8	15/16	25/64	15/64	1 1/4	1 3/8	5/16	UKFCX05	FCX05	UKX05	HE2305X H2305X	1.2 1.2
	1	4 29/32	3.150	3 15/16	2 25/32	15/32	29/32	25/64	5/16	1 1/4	1 1/2	3/8	UKFC206	FC206	UK206	H2306X HE2306X	1.3 1.3
25	1	5	3.347	4 9/64	2 59/64	15/32	7/8	5/16	3/8	1 7/32	1 1/2	3/8	UKFCX06	FCX06	UKX06	H2306X HE2306X	1.5 1.5
	1 1/8	5 5/16	3.543	4 21/64	3 1/16	1 1/32	7/16	5/16	1 3/8	1 11/16	7/16	3/8	UKFC207	FC207	UK207	HS2307X H2307X	1.7 1.7
	1 1/8	5 1/4	3.622	4 3/8	3 3/32	15/32	1 1/32	23/64	7/16	1 3/8	1 11/16	3/8	UKFCX07	FCX07	UKX07	HS2307X H2307X	1.9 1.9
30	1 1/4	5 23/32	3.937	4 23/32	3 11/32	35/64	1 1/32	7/16	25/64	1 1/2	1 13/16	7/16	UKFC208	FC208	UK208	HE2308X HS2308X H2308X	2.0 2.0 2.0
	1 3/8	5 1/4	3.622	4 3/8	3 3/32	15/32	1 1/32	23/64	7/16	1 15/32	1 13/16	3/8	UKFCX08	FCX08	UKX08	HE2308X HS2308X H2308X	1.9 1.9 1.9
	1 1/2	6 5/16	4.134	5 13/64	3 43/64	5/8	1 1/32	25/64	15/32	1 17/32	1 31/32	1/2	UKFC209	FC209	UK209	HE2309X H2309X	2.7 2.7
40	1 1/2	6 3/32	4.252	5 1/8	3 5/8	35/64	31/32	5/16	15/32	1 15/32	1 31/32	7/16	UKFCX09	FCX09	UKX09	HE2309X H2309X	2.6 2.6
	1 3/4	6 1/2	4.331	5 7/16	3 27/32	5/8	1 3/32	25/64	15/32	1 9/16	2 5/32	1/2	UKFC210	FC210	UK210	HE2310X H2310X	3.0 3.0
	1 3/4	6 3/8	4.646	5 23/64	3 25/32	35/64	31/32	9/32	5/8	1 17/32	2 5/32	7/16	UKFCX10	FCX10	UKX10	HE2310X H2310X	3.1 3.1
50	1 7/8	7 9/32	4.921	5 29/32	4 11/64	3/4	1 7/32	33/64	15/32	1 25/32	2 5/16	5/8	UKFC211	FC211	UK211	HS2311X H2311X HE2311X	4.3 4.3 4.3
	2	7 3/32	5.000	5 63/64	4 15/64	5/8	1 1/32	5/32	55/64	1 9/16	2 5/16	1/2	UKFCX11	FCX11	UKX11	HS2311X H2311X HE2311X	4.0 4.0 4.0
	2 1/8	7 11/16	5.315	6 19/64	4 29/64	3/4	1 13/32	43/64	15/32	2 3/32	2 7/16	5/8	UKFC212	FC212	UK212	HS2312X H2312X	4.9 4.9
55	2 1/8	7 5/8	5.512	6 1/2	4 19/32	5/8	1 5/16	7/16	25/32	1 7/8	2 7/16	1/2	UKFCX12	FCX12	UKX12	HS2312X H2312X	5.1 5.1
	2 1/4	8 1/16	5.709	6 11/16	4 47/64	3/4	1 13/32	5/8	35/64	2 3/32	2 9/16	5/8	UKFC213	FC213	UK213	HE2313X H2313X HS2313X	5.5 5.5 5.5
	2 3/8	7 5/8	5.512	6 1/2	4 19/32	5/8	1 5/16	7/16	25/32	2	2 9/16	1/2	UKFCX13	FCX13	UKX13	HE2313X H2313X HS2313X	5.3 5.3 5.3
60	2 1/4	8 1/16	5.709	6 11/16	4 47/64	3/4	1 13/32	5/8	35/64	2 3/32	2 9/16	5/8	UKFC213	FC213	UK213	HE2313X H2313X HS2313X	5.5 5.5 5.5
	2 3/8	7 5/8	5.512	6 1/2	4 19/32	5/8	1 5/16	7/16	25/32	2	2 9/16	1/2	UKFCX13	FCX13	UKX13	HE2313X H2313X HS2313X	5.3 5.3 5.3
	2 1/2	8 21/32	6.299	7 1/4	5 1/8	3/4	1 9/16	45/64	5/8	2 5/16	2 7/8	5/8	UKFC215	FC215	UK215	HE2315X H2315X	7.4 7.4

- Remarks
- In Part No. of unit and units with covers, fitting codes follow bore diameter numbers. (See **Table 10.5** in P.62.)
 - Part No. of applicable grease fittings are shown below.
A-1/4-28UNF..... 205~210, X05~X09
A-R1/8..... 211~218, X10~X20
 - In Part No. of unit with adapters and bearing with adapters, Part No. of applicable adapter follow the Part No. shown in the dimensional tables.
(Example of Part No. : UKFC206J + H2306X, UK206 + H2306X)
 - As for the triple seal type product (205 is the double seal type product), suffix code L3 (or L2) follows the Part No. of unit or bearing.
(Example of Part No. : UKFC206JL3 + H2306X, UK206L3 + H2306X)
 - For the dimensions and forms of applicable bearings and adapters, see the dimensional tables of ball bearing for unit and adapter.
 - Housings of nodular graphite cast iron are also available.

Shaft Dia. mm inch		Dimensions inch mm										Bolt Size	Unit No.	Housing No.	Bearing No.	Adapter No.	Mass
d ₁		L	H ₃	J	J ₁	N	A ₁	A ₂	A ₃	A ₄	B ₁	inch mm					kg
65	2 1/2	8 3/4	6.457	7 31/64	5 9/32	3/4	1 3/8	15/32	55/64	2 5/32	2 7/8	5/8	UKFCX15	FCX15	UKX15	HE2315X H2315X	7.7 7.7
	2 3/4	9 7/16	6.693	7 7/8	5 9/16	29/32	1 31/32	45/64	5/8	2 15/32	3 1/16	3/4	UKFC216	FC216	UK216	HE2316X H2316X	9.0 9.0
70	2 3/4	10 1/4	7.323	8 5/8	6 3/32	29/32	1 13/32	25/64	63/64	2 3/16	3 1/16	3/4	UKFCX16	FCX16	UKX16	HE2316X H2316X	11.4 11.4
	3	9 27/32	7.087	8 3/16	5 51/64	29/32	1 25/32	45/64	45/64	3 17/32	3 7/32	3/4	UKFC217	FC217	UK217	H2317X	10.4
75	3	10 1/4	7.323	8 5/8	6 3/32	29/32	1 13/32	25/64	63/64	2 11/32	3 7/32	3/4	UKFCX17	FCX17	UKX17	H2317X	12.6
	3	260	186	219	154.8	23	36	10	25	59.5	82	M20	UKFC218	FC218	UK218	H2318X	13.3
	3	265	190	220	155.5	23	50	22	18	71.5	86	M20	UKFCX18	FCX18	UKX18	H2318X	13.0
80	3 1/2	10 7/8	8.110	9 3/8	6 5/8	29/32	2 19/32	55/64	1 7/64	3	3 13/16	3/4	UKFCX20	FCX20	UKX20	HE2320X H2320X	17.1 17.1

NCFC
Cylindrical bore
(with concentric locking collar)
d 20 ~ 60 mm



Variations of tolerance of spigot joint outside diameter (ΔH_{3s}), variations of tolerance of distance from mounting surface to center of spherical bore (ΔA_{2s}), tolerance of position of bolt hole (X), and tolerance of circumferential runout of spigot joint (Y)

Housing No.	Unit: mm			
	ΔH_{3s}	ΔA_{2s}	X	Y
FC204~FC206	0 -0.046	±0.5	0.7	0.2
FC207~FC210	0 -0.054			
FC211~FC212	0 -0.063	±0.8	1	0.3

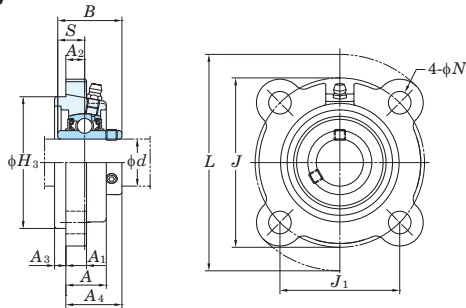
Variations of tolerance of bolt hole diameter (ΔN_s)

Housing No.	ΔN_s
FC204~FC212	±0.2

Shaft Dia. mm inch		Dimensions inch mm													Bolt Size	Unit No.	Housing No.	Bearing No.	Mass
<i>d</i>		<i>L</i>	<i>H</i> ₃	<i>J</i>	<i>J</i> ₁	<i>N</i>	<i>A</i> ₁	<i>A</i> ₂	<i>A</i> ₃	<i>A</i> ₄	<i>B</i> ₁	<i>S</i>	<i>d</i> ₁	inch mm				kg	
20	3/4	3 15/16	2.441	3 5/64	2 11/64	15/32	13/16	25/64	13/64	1 3/16	1 9/32	0.500	1 3/4	3/8	NCFC204-12 NCFC204	FC204	NC204-12 NC204	0.87	
		100	62	78	55.1	12	20.5	10	5	29.8	32.5	12.7	44.5	M10					
25	7/8 15/16 1	4 17/32	2.756	3 35/64	2 1/2	15/32	13/16	25/64	15/64	1 9/32	1 7/16	0.563	1 15/16	3/8	NCFC205-14 NCFC205-15 NCFC205 NCFC205-16	FC205	NC205-14 NC205-15 NC205 NC205-16	1.15	
		115	70	90	63.6	12	21	10	6	32.2	36.5	14.3	49.2	M10					
30	1 1/8 1 3/16 1 1/4	4 29/32	3.150	3 15/16	2 25/32	15/32	29/32	25/64	5/16	1 11/32	1 19/32	0.626	2 3/16	3/8	NCFC206-18 NCFC206 NCFC206-19 NCFC206-20	FC206	NC206-18 NC206 NC206-19 NC206-20	1.5	
		125	80	100	70.7	12	23	10	8	34.2	40.1	15.9	55.6	M10					
35	1 1/4 1 3/8 1 7/16	5 5/16	3.543	4 21/64	3 1/16	35/64	1 1/32	7/16	5/16	1 1/2	1 3/4	0.689	2 7/16	7/16	NCFC207-20	FC207	NC207-20	2.0	
		135	90	110	77.8	14	26	11	8	38	44.5	17.5	61.9	M12					
40	1 1/2	5 5/16	3.543	4 21/64	3 1/16	35/64	1 1/32	7/16	5/16	1 1/2	1 3/4	0.689	2 9/16	7/16	NCFC207-22 NCFC207 NCFC207-23	FC207	NC207-22 NC207 NC207-23	2.0	
		135	90	110	77.8	14	26	11	8	38	44.5	17.5	65.1	M12					
45	1 5/8 1 11/16 1 3/4	5 23/32	3.937	4 23/32	3 11/32	35/64	1 1/32	7/16	25/64	1 11/16	2	0.748	2 11/16	7/16	NCFC208-24 NCFC208	FC208	NC208-24 NC208	2.4	
		145	100	120	84.8	14	26	11	10	42.8	50.8	19	68.3	M12					
50	1 5/8 1 11/16 1 3/4	6 5/16	4.134	5 13/64	4 43/64	5/8	1 1/32	25/64	15/32	1 21/32	2	0.748	2 13/16	1/2	NCFC209-26	FC209	NC209-26	3.0	
		160	105	132	93.3	16	26	10	12	41.8	50.8	19	71.4	M14					
55	1 15/16 2	6 5/16	4.134	5 13/64	4 43/64	5/8	1 1/32	25/64	15/32	1 21/32	2	0.748	2 15/16	1/2	NCFC209-27 NCFC209-28 NCFC209	FC209	NC209-27 NC209-28 NC209	3.0	
		160	105	132	93.3	16	26	10	12	41.8	50.8	19	74.6	M14					
60	1 15/16 2	6 1/2	4.331	5 7/16	3 27/32	5/8	1 3/32	25/64	15/32	1 3/4	2 3/32	0.748	3 3/8	1/2	NCFC210-31 NCFC210 NCFC210-32	FC210	NC210-31 NC210 NC210-32	3.5	
		165	110	138	97.6	16	28	10	12	44.1	53.1	19	85.7	M14					
65	2	7 9/32	4.921	5 29/32	4 11/64	3/4	1 7/32	33/64	15/32	1 7/8	2 1/4	0.874	3 1/2	5/8	NCFC211-32	FC211	NC211-32	4.6	
		185	125	150	106.1	19	31	13	12	47.9	57.1	22.2	88.9	M16					
70	2 3/16	7 9/32	4.921	5 29/32	4 11/64	3/4	1 7/32	33/64	15/32	1 7/8	2 1/4	0.874	3 5/8	5/8	NCFC211 NCFC211-35	FC211	NC211 NC211-35	4.6	
		185	125	150	106.1	19	31	13	12	47.9	57.1	22.2	92.1	M16					
75	2 1/4	7 11/16	5.315	6 19/64	4 29/64	3/4	1 13/32	43/64	15/32	2 5/16	2 5/8	1.000	4 1/16	5/8	NCFC212-36	FC212	NC212-36	5.7	
		195	135	160	113.1	19	36	17	12	58.4	66.8	25.4	103.2	M16					
80	2 7/16	7 11/16	5.315	6 19/64	4 29/64	3/4	1 13/32	43/64	15/32	2 5/16	2 5/8	1.000	4 1/8	5/8	NCFC212 NCFC212-39	FC212	NC212 NC212-39	5.7	
		195	135	160	113.1	19	36	17	12	58.4	66.8	25.4	104.8	M16					

Remarks 1. In Part No. of unit, fitting codes follow bore diameter codes. (See **Table 10.5** in P.62.)
2. Part No. of applicable grease fittings are shown below.
A-1/4-28UNF..... 204~210
A-R1/8..... 211~212
3. For the dimensions and forms of applicable bearings, see the dimensional tables of ball bearing for unit.
4. Representative examples of the forms of housing are indicated.

UCSFC-S6
Cylindrical bore (with set screws)
d 20 ~ 50 mm



Variations of tolerance of spigot joint outside diameter (ΔH_{3s}), variations of tolerance of distance from mounting surface to center of spherical bore (ΔA_{2s}) and tolerance of position of bolt hole (X), and tolerance of circumferential runout of spigot joint (Y)

Housing No.	Unit: mm			
	ΔH_{3s}	ΔA_{2s}	X	Y
SFC204~SFC206	0 -0.046	±0.5	0.7	0.2
SFC207~SFC210	0 -0.054			

Variations of tolerance of bolt hole diameter (ΔN_s)

Housing No.	ΔN_s
SFC204~SFC210	±0.2

Shaft Dia		Dimensions													Bolt Size	Unit No.	Housing No.	Bearing No.	Mass
mm	inch	inch mm													inch mm				
<i>d</i>		<i>L</i>	<i>H</i> ₃	<i>J</i>	<i>J</i> ₁	<i>N</i>	<i>A</i>	<i>A</i> ₁	<i>A</i> ₂	<i>A</i> ₃	<i>A</i> ₄	<i>B</i>	<i>S</i>				kg		
20	3/4	3 15/16	2.441	3 5/64	2 11/64	15/32	13/16	25/64	25/64	13/64	1 1/8	1.220	0.500	3/8	UCSFC204-12S6	SFC204	UC204-12S6	0.54	
		100	62	78	55.1	12	21	10	10	5	28.3	31	12.7	M10	UCSFC204S6		UC204S6		
25	7/8	4 17/32	2.756	3 35/64	2 1/2	15/32	27/32	25/64	25/64	15/64	1 3/16	1.343	0.563	3/8	UCSFC205-14S6	SFC205	UC205-14S6	0.72	
	15/16													M10	UCSFC205-15S6		UC205-15S6		
																	UC205S6		UC205S6
30	1 1/8	4 29/32	3.150	3 15/16	2 25/32	15/32	29/32	25/64	25/64	5/16	1 9/32	1.500	0.626	3/8	UCSFC206-18S6	SFC206	UC206-18S6	0.92	
	1 3/16													M10	UCSFC206S6		UC206S6		
	1 1/4																UC206-19S6		UC206-20S6
35	1 1/4	5 5/16	3.543	4 21/64	3 1/16	35/64	1 1/32	15/32	7/16	5/16	1 7/16	1.689	0.689	7/16	UCSFC207-20S6	SFC207	UC207-20S6	1.24	
	1 5/16													M12	UCSFC207-21S6		UC207-21S6		
	1 3/8														UCSFC207-22S6		UC207-22S6		
															UCSFC207S6		UC207S6		
40	1 7/16														UCSFC207-23S6		UC207-23S6	1.56	
	1 1/2	5 23/32	3.937	4 23/32	3 11/32	35/64	1 1/32	15/32	7/16	25/64	1 5/8	1.937	0.748	7/16	UCSFC208-24S6	SFC208	UC208-24S6		
	1 9/16													M12	UCSFC208-25S6	UC208-25S6			
45	1 5/8														UCSFC208S6		UC208S6	1.87	
	1 11/16	6 5/16	4.1339	5 13/64	3 43/64	5/8	1 1/32	15/32	25/64	15/32	1 19/32	1.937	0.748	1/2	UCSFC209-26S6	SFC209	UC209-26S6		
	1 3/4													M14	UCSFC209-27S6		UC209-27S6		
															UCSFC209-28S6		UC209-28S6		
50	1 7/8														UCSFC209S6		UC209S6	2.22	
	1 15/16	6 17/32	4.3307	5 7/16	3 27/32	5/8	1 3/32	35/64	25/64	15/32	1 11/16	2.031	0.748	1/2	UCSFC210-30S6	SFC210	UC210-30S6		
														M14	UCSFC210-31S6		UC210-31S6		
															UCSFC210S6		UC210S6		
55	2														UCSFC210-32S6		UC210-32S6	2.6	

SBFC-RKP8
Cylindrical bore
(with set screws)
d 20 ~ 55 mm

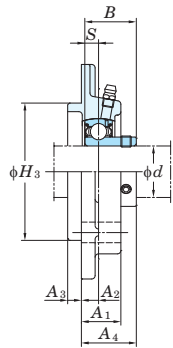


SBFC-RKP8

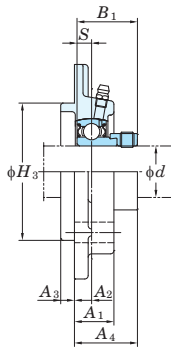
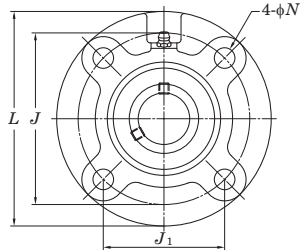
SAFC-FP9
Cylindrical bore
(with eccentric locking collar)



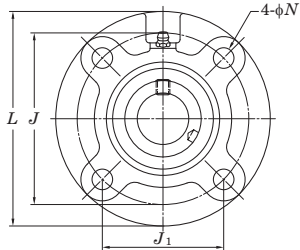
SAFC-FP9



SBFC-RKP8



SAFC-FP9



Variations of tolerance of spigot joint outside diameter (ΔH_{3a}), variations of tolerance of distance from mounting surface to center of spherical bore (ΔA_{2a}), tolerance of position of bolt hole (X), and tolerance of circumferential runout of spigot joint (Y)

Housing No.	ΔH_{3a}	ΔA_{2a}	X	Y
FC204~FC206	0 -0.046	±0.5	0.7	0.2
FC207~FC210	0 -0.054			
FC211	0 -0.063	±0.8	1	0.3

Unit: mm

Variations of tolerance of bolt hole diameter (ΔN_s)

Housing No.	ΔN_s
FC204~FC211	±0.2

Unit: mm

Shaft Dia. mm inch		Dimensions inch mm														Bolt Size inch mm		Unit No.	Bearing No.	Unit No.	Bearing No.	Housing No.	Mass	
		<i>L</i>	<i>H</i> ₃	<i>J</i>	<i>J</i> ₁	<i>N</i>	<i>A</i> ₁	<i>A</i> ₂	<i>A</i> ₃	SBFC-RKP8 <i>A</i> ₄	SAFC-FP9 <i>A</i> ₄	<i>B</i>	<i>B</i> ₁	SBFC-RKP8 <i>S</i>	SAFC-FP9 <i>S</i>								SBFC-RKP8	SAFC-FP9
<i>d</i>		<i>L</i>	<i>H</i> ₃	<i>J</i>	<i>J</i> ₁	<i>N</i>	<i>A</i> ₁	<i>A</i> ₂	<i>A</i> ₃	SBFC-RKP8 <i>A</i> ₄	SAFC-FP9 <i>A</i> ₄	<i>B</i>	<i>B</i> ₁	SBFC-RKP8 <i>S</i>	SAFC-FP9 <i>S</i>									
20	3/4	3 15/16 100	2.441 62	3 5/64 78	2 11/64 55.1	15/32 12	13/16 20.5	25/64 10	13/64 5	1 3/32 28	1 5/16 33.5	0.984 25	1.220 31	0.276 7	0.295 7.5	3/8 M10		SBFC204-12RKP8 SBFC204RKP8	SB204-12RKP8 SB204RKP8	SAFC204-12FP9 SAFC204FP9	SA204-12FP9 SA204FP9	FC204	0.72	0.76
25	7/8	4 17/32 115	2.756 70	3 35/64 90	2 1/2 63.6	15/32 12	13/16 21	25/64 10	15/64 6	1 5/32 29.5	1 5/16 33.5	1.063 27	1.220 31	0.295 7.5	0.295 7.5	3/8 M10		SBFC205-14RKP8	SB205-14RKP8	SAFC205-14FP9	SA205-14FP9	FC205	0.93	0.98
																	SBFC205-15RKP8	SB205-15RKP8	SAFC205-15FP9	SA205-15FP9				
																	SBFC205RKP8	SB205RKP8	SAFC205FP9	SA205FP9				
30	1 1/8	4 29/32 125	3.150 80	3 15/16 100	2 25/32 70.7	15/32 12	29/32 23	25/64 10	5/16 8	1 1/4 32	1 7/16 36.7	1.181 30	1.406 35.7	0.315 8	0.354 9	3/8 M10		SBFC206-18RKP8	SB206-18RKP8	SAFC206-18FP9	SA206-18FP9	FC206	1.25	1.32
																	SBFC206RKP8	SB206RKP8	SAFC206FP9	SA206FP9				
																	SBFC206-19RKP8	SB206-19RKP8	SAFC206-19FP9	SA206-19FP9				
35	1 3/16	5 5/16 135	3.543 90	4 21/64 110	3 1/16 77.8	35/64 14	1 1/32 26	7/16 11	5/16 8	1 11/32 34.5	1 19/32 40.4	1.260 32	1.531 38.9	0.335 8.5	0.374 9.5	7/16 M12		SBFC206-20RKP8	SB206-20RKP8	SAFC206-20FP9	SA206-20FP9	FC207	1.64 1.64 1.64 1.64	1.79
																	SBFC207-20RKP8	SB207-20RKP8	SAFC207-20FP9	SA207-20FP9				
																	—	—	SAFC207-21FP9	SA207-21FP9				
																	SBFC207-22RKP8	SB207-22RKP8	SAFC207-22FP9	SA207-22FP9				
																	SBFC207RKP8	SB207RKP8	SAFC207FP9	SA207FP9				
40	1 7/16	5 23/32 145	3.937 100	4 23/32 120	3 11/32 84.8	35/64 14	1 1/32 26	7/16 11	25/64 10	1 13/32 36	1 23/32 43.7	1.339 34	1.720 43.7	0.354 9	0.433 11	7/16 M12		SBFC207-23RKP8	SB207-23RKP8	SAFC207-23FP9	SA207-23FP9	FC208	1.96 — 1.96	2.11
																	SBFC208-24RKP8	SB208-24RKP8	SAFC208-24FP9	SA208-24FP9				
																	—	—	SAFC208-25FP9	SA208-25FP9				
45	1 1/2	6 5/16 160	4.134 105	5 13/64 132	3 43/64 93.3	5/8 16	1 1/32 26	15/32 12	25/64 10	—	1 11/16 42.7	—	1.720 43.7	—	0.433 11	1/2 M14		SBFC208RKP8	SB208RKP8	SAFC208FP9	SA208FP9	FC209	—	2.74
																	—	—	SAFC209-26FP9	SA209-26FP9				
																	—	—	SAFC209-27FP9	SA209-27FP9				
																	—	—	SAFC209-28FP9	SA209-28FP9				
50	1 3/4	6 1/2 165	4.331 110	5 7/16 138	3 27/32 97.6	5/8 16	1 3/32 28	15/32 12	25/64 10	—	1 11/16 42.7	—	1.720 43.7	—	0.433 11	1/2 M14		—	—	SAFC209FP9	SA209FP9	FC210	—	2.95
																	—	—	SAFC210-30FP9	SA210-30FP9				
																	—	—	SAFC210-31FP9	SA210-31FP9				
55	2	7 9/32 185	4.921 125	5 29/32 150	4 11/64 106.1	3/4 19	1 7/32 31	33/64 13	15/32 12	—	1 15/16 49.3	—	1.902 48.3	—	0.472 12	5/8 M16		—	—	SAFC210FP9	SA210FP9	FC211	—	4.29
																	—	—	SAFC211-32FP9	SA211-32FP9				
																	—	—	SAFC211-34FP9	SA211-34FP9				
																	—	—	SAFC211FP9	SA211FP9				
	2 3/16																							

Remarks 1. In Part No. of unit, fitting codes follow bore diameter codes. (See **Table 10.5** in P.62.)
2. Part No. of applicable grease fittings are shown below.
A-1/4-28UNF..... 204~210
A-R1/8 211

3. For the dimensions and forms of applicable bearings, see the dimensional tables of ball bearing for unit.
4. Representative examples of the forms of housing are indicated.