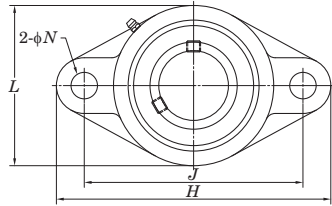
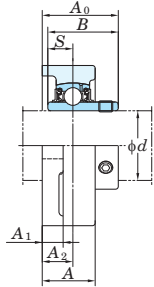


UCFL
Cylindrical bore (with set screws)
d 12 ~ 120 mm



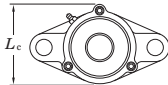
Variations of tolerance of distance from mounting surface to center of spherical bore (ΔA_{2a}) and tolerance of position of bolt hole (X)

				Unit: mm
Housing No.			ΔA_{2s}	X
FL204~FL210	FLX05~FLX10	FL305~FL310	± 0.5	0.7
FL211~FL218		FL311~FL324	± 0.8	1

Variations of tolerance of bolt hole diameter (ΔN_b)

FL204~FL218	FLX05~FLX10	FL305~FL311	±0.2
		FL312~FL324	±0.3

Forms and dimensions of L_c of FL204FJE3 and FL205FJE3 (housing with cast iron cover) are shown below.



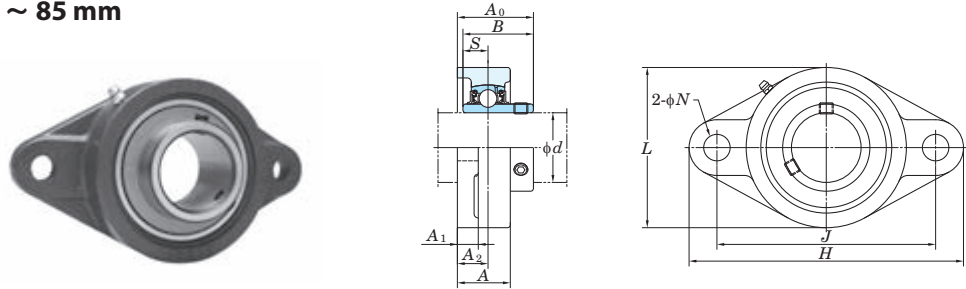
FL204FJE3 L_c = 65 mm
FL205FJE3 L_c = 73 mm

Shaft Dia. mm inch		Dimensions inch mm										Bolt Size inch mm	Unit No.	Housing No.	Bearing No.	Mass kg
<i>d</i>		<i>H</i>	<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>					
12	1/2												UCFL201		UC201	0.50
15	5/8	4 7/16	2 3/8	1	3 35/64	15/32	7/16	19/32	1 5/16	1.220	0.500	3/8	UCFL201-8	FL204	UC201-8	0.50
17	3/4	113	60	25.5	90	12	11	15	33.3	31	12.7	M10	UCFL202		UC202	0.48
20													UCFL202-10		UC202-10	0.48
													UCFL203		UC203	0.47
													UCFL204-12		UC204-12	0.47
													UCFL204		UC204	0.45
													UCFL205-14	FL205	UC205-14	0.64
													UCFL205-15		UC205-15	0.64
													UCFL205		UC205	0.64
													UCFL205-16		UC205-16	0.64
25	7/8	5 1/8	2 11/16	1 1/16	3 57/64	5/8	1/2	5/8	1 13/32	1.343	0.563	1/2	UCFL205-14		UC205-14	0.64
	15/16	130	68	27	99	16	13	16	35.8	34.1	14.3	M14	UCFL205-15		UC205-15	0.64
													UCFL205		UC205	0.64
													UCFL205-16		UC205-16	0.64
													UCFLX05	FLX05	UCX05	1.1
													UCFLX05-16		UCX05-16	1.1
													UCFL305		UC305	1.1
													UCFL305-16	FL305	UC305-16	1.1
													UCFL206-18		UC206-18	0.93
													UCFL206		UC206	0.93
													UCFL206-19	FL206	UC206-19	0.93
													UCFL206-20		UC206-20	0.93
30	1 1/8	5 13/16	3 5/32	1 7/32	4 39/64	5/8	1/2	45/64	1 19/32	1.500	0.626	1/2	UCFL206-18		UC206-18	0.93
	1 3/16	148	80	31	117	16	13	18	40.2	38.1	15.9	M14	UCFL206		UC206	0.93
	1 1/4												UCFL206-19		UC206-19	0.93
													UCFL206-20		UC206-20	0.93
													UCFLX06	FLX06	UCX06	1.5
													UCFLX06-19		UCX06-19	1.5
													UCFLX06-20		UCX06-20	1.5
													UCFL306	FL306	UC306	1.5
													UCFL207-20		UC207-20	1.2
													UCFL207-21	FL207	UC207-21	1.2
													UCFL207-22		UC207-22	1.2
													UCFL207		UC207	1.2
													UCFL207-23		UC207-23	1.2
35	1 1/4	6 11/32	3 17/32	1 11/32	5 1/8	5/8	9/16	3/4	1 3/4	1.689	0.689	1/2	UCFL207-20		UC207-20	1.2
	1 5/16	161	90	34	130	16	14	19	44.4	42.9	17.5	M14	UCFL207-21		UC207-21	1.2
	1 3/8												UCFL207-22		UC207-22	1.2
													UCFL207		UC207	1.2
													UCFL207-23		UC207-23	1.2
													UCFLX07-22	FLX07	UCX07-22	1.9
													UCFLX07		UCX07	1.9
													UCFLX07-23		UCX07-23	1.9
													UCFL307	FL307	UC307	1.8
													UCFL208-24		UC208-24	1.6
													UCFL208-25	FL208	UC208-25	1.6
													UCFL208		UC208	1.6
40	1 1/2	7 1/16	4 3/8	1 9/16	5 53/64	5/8	9/16	55/64	2 1/16	1.937	0.748	1/2	UCFL208-24		UCX08-24	2.1
	1 9/16	175	100	36	144	16	14	21	51.2	49.2	19	M14	UCFL208-25		UCX08-25	2.1
													UCFL208		UC208	1.6
													UCFLX08-24	FLX08	UCX08-24	2.1
													UCFLX08		UCX08	2.1
													UCFL308-24	FL308	UC308-24	2.5
													UCFL308		UC308	2.5

Remarks 1. In Part No. of unit and units with covers, fitting codes follow bore diameter numbers. (See **Table 10.5** in P62.)
2. Part No. of applicable grease fittings are shown below.
A-1/4-28UNF..... 201~210, X05~X09, 305~308
A-R1/8..... 211~218, X10, 309~324
3. As for the triple seal type product (from 201 to 205 are the double seal type products), suffix code L3 (or L2) follows the Part No. of unit or bearing.
(Example of Part No.: UCFL206JL3, UC206L3)
4. For the dimensions and forms of applicable bearings, see the dimensional tables of ball bearing for unit.
5. Housings of nodular graphite cast iron are also available.

Shaft Dia. mm inch		Dimensions inch mm										Bolt Size inch mm	Unit No.	Housing No.	Bearing No.	Mass kg
<i>d</i>		<i>H</i>	<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>					
	1 5/8												UCFL209-26		UC209-26	1.9
	1 11/16	7 13/32	4 1/4	1 1/2	5 53/64	3/4	19/32	55/64	2 1/16	1.937	0.748	5/8	UCFL209-27	FL209	UC209-27	1.9
	1 3/4	188	108	38	148	19	15	22	52.2	49.2	19	M16	UCFL209-28		UC209-28	1.9
													UCFL209		UC209	1.9
45	1 11/16	7 7/16	4 9/16	1 9/16	6 3/16	5/8	9/16	29/32	2 3/16	2.031	0.748	1/2	UCFLX09-27		UCX09-27	2.4
	1 3/4	189	116	40	157	16	14	23	55.6	51.6	19	M14	UCFLX09-28	FLX09	UCX09-28	2.4
													UCFLX09		UCX09	2.4
	1 3/4	9 1/16	4 29/32	1 23/32	6 31/32	63/64	23/32	63/64	2 3/8	2.244	0.866	7/8	UCFL309-28	FL309	UC309-28	3.5
		230	125	44	177	25	18	25	60	57	22	M22	UCFL309		UC309	3.5
													UCFL210-30		UC210-30	2.2
	1 7/8	7 3/4	4 17/32	1 9/16	6 3/16	3/4	19/32	55/64	2 5/32	2.031	0.748	5/8	UCFL210-31	FL210	UC210-31	2.2
	1 15/16	197	115	40	157	19	15	22	54.6	51.6	19	M16	UCFL210		UC210	2.2
	2												UCFL210-32		UC210-32	2.2
50	1 15/16	8 1/2	5 1/4	1 23/32	7 1/4	3/4	25/32	1 1/32	2 11/32	2.189	0.874	5/8	UCFLX10-31		UCX10-31	3.8
	2	216	133	44	184	19	20	26	59.4	55.6	22.2	M16	UCFLX10	FLX10	UCX10	3.8
													UCFLX10-32		UCX10-32	3.8
	—	9 7/16	5 1/2	1 7/8	7 23/64	63/64	3/4	1 7/64	2 5/8	2.402	0.866	7/8	UCFL310	FL310	UC310	4.4
		240	140	48	187	25	19	28	67	61	22	M22				
													UCFL211-32		UC211-32	3.3
	2	8 13/16	5 1/8	1 11/16	7 1/4	3/4	23/32	63/64	2 5/16	2.189	0.874	5/8	UCFL211-34	FL211	UC211-34	3.3
	2 1/8	224	130	43	184	19	18	25	58.4	55.6	22.2	M16	UCFL211		UC211	3.3
	2 3/16												UCFL211-35		UC211-35	3.3
													UCFL311-32		UC311-32	5.3
	2	9 27/32	5 29/32	2 1/16	7 51/64	63/64	25/32	1 3/16	2 25/32	2.598	0.984	7/8	UCFL311	FL311	UC311	5.3
	2 3/16	250	150	52	198	25	20	30	71	66	25	M22	UCFL311-35		UC311-35	5.3
													UCFL212-36		UC212-36	4.2
60	2 1/4	9 27/32	5 1/2	1 7/8	7 61/64	29/32	23/32	1 9/64	2 23/32	2.563	1.000	3/4	UCFL212	FL212	UC212	4.2
	2 3/8	250	140	48	202	23	18	29	68.7	65.1	25.4	M20	UCFL212-38		UC212-38	4.2
	2 7/16												UCFL212-39		UC212-39	4.2
													UCFL312		UC312	6.5
													UCFL312-39	FL312	UC312-39	6.5
													UCFL213-40		UC213-40	5.1
	2 1/2	10 5/32	6 3/32	1 31/32	8 17/64	29/32	25/32	1 3/16	2 3/4	2.563	1.000	3/4	UCFL213	FL213	UC213	5.1
	2 1/2	11 5/8	6 7/8	2 9/32	9 29/64	1 7/32	31/32	1 19/64	3 1/16	2.953	1.181	1	UCFL313-40		UC313-40	8.5
		295	175	58	240	31	25	33	78	75	30	M27	UCFL313	FL313	UC313	8.5
													UCFL214-44		UC214-44	5.7
	2 3/4	10 7/16	6 5/16	2 1/8	8 1/2	29/32	25/32	1 7/32	2 31/32	2.937	1.189	3/4	UCFL214	FL214	UC214	5.7

UCFL-E
Cylindrical bore (with set screws)
d 12 ~ 85 mm



Variations of tolerance of distance from mounting surface to center of spherical bore (ΔA_{2s}) and tolerance of position of bolt hole (X)

Unit: mm		
Housing No.	ΔA_{2s}	X
FL203E~FL210E	± 0.5	0.7
FL211E~FL217E	± 0.8	1

Variations of tolerance of bolt hole diameter (ΔN_s)

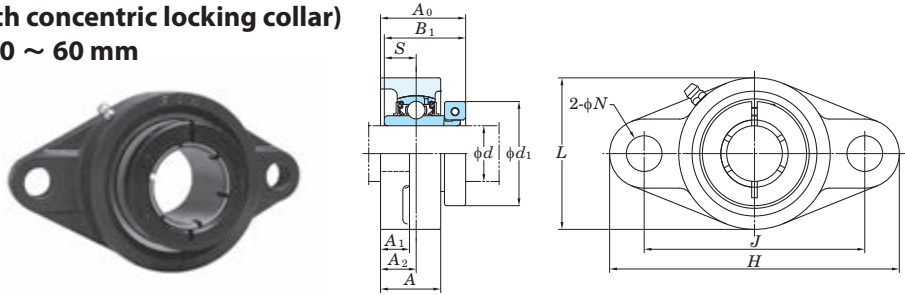
Unit: mm	
Housing No.	ΔN_s
FL203E~FL217E	± 0.2

Shaft Dia. mm inch		Dimensions inch mm										Bolt Size inch	Unit No.	Housing No.	Bearing No.	Mass kg
<i>d</i>		<i>H</i>	<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>					
12	1/2												UCFL201E		UC201	0.42
15	5/8	3 27/32	2 7/32	1	3	25/64	7/16	19/32	1 5/16	1.220	0.500	5/16	UCFL201-8E	FL203E	UC201-8	0.4
		98	56	25.5	76.2	10	11	15	33.3	31	12.7		UCFL202E		UC202	
17													UCFL202-10E		UC202-10	0.39
20	3/4	4 7/16	2 3/8	1	3 17/32	25/64	7/16	19/32	1 5/16	1.220	0.500	5/16	UCFL203E		UC203	
		113	60	25.5	89.7	10	11	15	33.3	31	12.7		UCFL204-12E	FL204E	UC204-12	0.48
													UCFL204E		UC204	
25	7/8	5 1/8	2 11/16	1 1/16	3 57/64	15/32	1/2	5/8	1 13/32	1.343	0.563	3/8	UCFL205-14E		UC205-14	0.64
	1 1/16	130	68	27	98.8	12	13	16	35.8	34.1	14.3		UCFL205-15E	FL205E	UC205-15	
													UCFL205E		UC205	
													UCFL205-16E		UC205-16	
30	1 1/8	5 13/16	3 5/32	1 7/32	4 19/32	15/32	1/2	45/64	1 19/32	1.500	0.626	3/8	UCFL206-18E		UC206-18	0.93
	1 3/16	148	80	31	116.7	12	13	18	40.2	38.1	15.9		UCFL206E	FL206E	UC206	
	1 1/4												UCFL206-19E		UC206-19	
													UCFL206-20E		UC206-20	
35	1 1/4	6 11/32	3 17/32	1 11/32	5 1/8	33/64	9/16	3/4	1 3/4	1.689	0.689	7/16	UCFL207-20E		UC207-20	1.2
	1 5/16	161	90	34	130.2	13	14	19	44.4	42.9	17.5		UCFL207-21E	FL207E	UC207-21	
	1 3/8												UCFL207-22E		UC207-22	
	1 7/16												UCFL207E		UC207	
													UCFL207-23E		UC207-23	
40	1 1/2	6 7/8	3 15/16	1 13/32	5 21/32	33/64	9/16	53/64	2 1/32	1.937	0.748	7/16	UCFL208-24E		UC208-24	1.6
	1 9/16	175	100	36	143.7	13	14	21	51.2	49.2	19		UCFL208-25E	FL208E	UC208-25	
													UCFL208E		UC208	
45	1 5/8	7 13/32	4 1/4	1 1/2	5 27/32	19/32	19/32	55/64	2 1/16	1.937	0.748	1/2	UCFL209-26E		UC209-26	1.9
	1 11/16	188	108	38	148.4	15	15	22	52.2	49.2	19		UCFL209-27E	FL209E	UC209-27	
	1 3/4												UCFL209-28E		UC209-28	
													UCFL209E		UC209	
50	1 7/8	7 3/4	4 17/32	1 9/16	6 3/16	19/32	19/32	55/64	2 5/32	2.031	0.748	1/2	UCFL210-30E		UC210-30	2.2
	1 15/16	197	115	40	157	15	15	22	54.6	51.6	19		UCFL210-31E	FL210E	UC210-31	
	2												UCFL210E		UC210	
													UCFL210-32E		UC210-32	
55	2	8 13/16	5 1/8	1 11/16	7 1/4	21/32	23/32	63/64	2 5/16	2.189	0.874	9/16	UCFL211-32E		UC211-32	3.3
	2 1/8	224	130	43	184	16.5	18	25	58.4	55.6	22.2		UCFL211-34E	FL211E	UC211-34	
													UCFL211E		UC211	
	2 3/16												UCFL211-35E		UC211-35	
60	2 1/4	9 27/32	5 1/2	1 7/8	7 61/64	21/32	23/32	1 9/64	2 23/32	2.563	1.000	9/16	UCFL212-36E		UC212-36	4.2
	2 3/8	250	140	48	202	16.5	18	29	68.7	65.1	25.4		UCFL212E	FL212E	UC212	
	2 7/16												UCFL212-38E		UC212-38	
													UCFL212-39E		UC212-39	
65	2 1/2	10 5/32	6 3/32	1 31/32	8 17/64	21/32	25/32	1 3/16	2 3/4	2.563	1.000	9/16	UCFL213-40E		UC213-40	5.2
		258	155	50	210	16.5	20	30	69.7	65.1	25.4		UCFL213E	FL213E	UC213	
70	2 3/4	10 7/16	6 5/16	2 1/8	8 1/2	21/32	25/32	1 7/32	2 31/32	2.937	1.189	9/16	UCFL214-44E		UC214-44	5.7
		265	160	54	216	16.5	20	31	75.4	74.6	30.2		UCFL214E	FL214E	UC214	

- Remarks
- In Part No. of unit, 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..... 201~210
A-R1/8..... 211~217
 - As for the triple seal type product (from 201 to 205 are the double seal type products), suffix code L3 (or L2) follows the Part No. of unit or bearing.
(Example of Part No. : UCFL206EJL3, UC206L3)
 - For the dimensions and forms of applicable bearings, see the dimensional tables of ball bearing for unit.
 - Housings of nodular graphite cast iron are also available.

Shaft Dia. mm inch		Dimensions inch mm										Bolt Size inch	Unit No.	Housing No.	Bearing No.	Mass kg
<i>d</i>		<i>H</i>	<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>					
75	2 15/16	10 13/16	6 1/2	2 7/32	8 55/64	3/4	25/32	1 11/32	3 3/32	3.063	1.311	1 1/16	UCFL215-47E		UC215-47	6.4
	3	275	165	56	225	19	20	34	78.5	77.8	33.3		UCFL215E	FL215E	UC215	
													UCFL215-48E		UC215-48	
80	3 1/8	11 13/32	7 3/32	2 9/32	9 11/64	3/4	25/32	1 11/32	3 9/32	3.252	1.311	1 1/16	UCFL216-50E		UC216-50	7.8
		290	180	58	233	19	20	34	83.3	82.6	33.3		UCFL216E	FL216E	UC216	
85	3 1/4	12	7 15/32	2 15/32	9 49/64	3/4	7/8	1 27/64	3 7/16	3.374	1.343	1 1/16	UCFL217-52E		UC217-52	9.8
		305	190	63	248	19	22	36	87.6	85.7	34.1		UCFL217E	FL217E	UC217	

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



Variations of tolerance of distance from mounting surface to center of spherical bore (ΔA_{2a}) and tolerance of position of bolt hole (X)

Housing No.	ΔA_{2a}	Unit: mm X
FL204~FL210	± 0.5	0.7
FL211~FL212	± 0.8	1

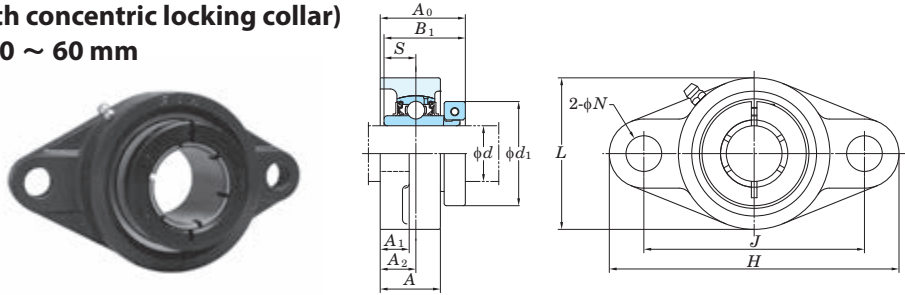
Variations of tolerance of bolt hole diameter (ΔN_b)

Housing No.	Unit: mm ΔN_b
FL204~FL212	± 0.2

Shaft Dia. mm inch		Dimensions inch mm												Bolt Size inch mm	Unit No.	Housing No.	Bearing No.	Mass kg
<i>d</i>		<i>H</i>	<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> ₁	<i>S</i>	<i>d</i> ₁						
20	3/4	4 7/16 113	2 3/8 60	1 25.5	3 35/64 90	15/32 12	7/16 11	19/32 15	1 3/8 34.8	1 9/32 32.5	0.500 12.7	1 3/4 44.5	3/8 M10	NCFL204-12 NCFL204	FL204	NC204-12 NC204	0.62	
25	7/8 15/16	5 1/8 130	2 11/16 68	1 1/16 27	3 57/64 99	5/8 16	1/2 13	5/8 16	1 1/2 38.2	1 7/16 36.5	0.563 14.3	1 15/16 49.2	1/2 M14	NCFL205-14 NCFL205-15 NCFL205 NCFL205-16	FL205	NC205-14 NC205-15 NC205 NC205-16	0.84	
	1 1/8	5 13/16 148	3 5/32 80	1 7/32 31	4 39/64 117	5/8 16	1/2 13	45/64 18	1 21/32 41.8	1 9/16 39.7	0.626 15.9	2 3/16 55.6	1/2 M14	NCFL206-18 NCFL206 NCFL206-19 NCFL206-20	FL206	NC206-18 NC206 NC206-19 NC206-20	1.1	
35	1 1/4	6 11/32 161	3 17/32 90	1 11/32 34	5 1/8 130	5/8 16	9/16 14	3/4 19	1 13/16 46	1 3/4 44.5	0.689 17.5	2 7/16 61.9	1/2 M14	NCFL207-20	FL207	NC207-20	1.5	
	1 3/8	6 11/32 161	3 17/32 90	1 11/32 34	5 1/8 130	5/8 16	9/16 14	3/4 19	1 13/16 46	1 3/4 44.5	0.689 17.5	2 9/16 65.1	1/2 M14	NCFL207-22 NCFL207 NCFL207-23	FL207	NC207-22 NC207 NC207-23	1.5	
40	1 1/2	6 7/8 175	3 15/16 100	1 13/32 36	5 43/64 144	5/8 16	9/16 14	53/64 21	2 3/32 52.8	2 50.8	0.748 19	2 11/16 68.3	1/2 M14	NCFL208-24 NCFL208	FL208	NC208-24 NC208	2.0	
	1 5/8	7 13/32 188	4 1/4 108	1 1/2 38	5 53/64 148	3/4 19	19/32 15	55/64 22	2 1/8 53.8	2 50.8	0.748 19	2 13/16 71.4	5/8 M16	NCFL209-26	FL209	NC209-26	2.3	
45	1 11/16	7 13/32 188	4 1/4 108	1 1/2 38	5 53/64 148	3/4 19	19/32 15	55/64 22	2 1/8 53.8	2 50.8	0.748 19	2 15/16 74.6	5/8 M16	NCFL209-27 NCFL209-28 NCFL209	FL209	NC209-27 NC209-28 NC209	2.3	
	1 3/4																	
50	1 15/16	7 3/4 197	4 17/32 115	1 9/16 40	6 3/16 157	3/4 19	19/32 15	55/64 22	2 7/32 56.1	2 3/32 53.1	0.748 19	3 3/8 85.7	5/8 M16	NCFL210-31 NCFL210 NCFL210-32	FL210	NC210-31 NC210 NC210-32	2.8	
	2																	
55	2	8 13/16 224	5 1/8 130	1 11/16 43	7 1/4 184	3/4 19	23/32 18	63/64 25	2 11/32 59.9	2 1/4 57.1	0.874 22.2	3 1/2 88.9	5/8 M16	NCFL211-32	FL211	NC211-32	3.7	
	2 3/16	8 13/16 224	5 1/8 130	1 11/16 43	7 1/4 184	3/4 19	23/32 18	63/64 25	2 11/32 59.9	2 1/4 57.1	0.874 22.2	3 5/8 92.1	5/8 M16	NCFL211 NCFL211-35	FL211	NC211 NC211-35	3.7	
60	2 1/4	9 27/32 250	5 1/2 140	1 7/8 48	7 61/64 202	29/32 23	23/32 18	1 9/64 29	2 25/32 70.3	2 5/8 66.7	1.000 25.4	4 1/16 103.2	3/4 M20	NCFL212-36	FL212	NC212-36	4.9	
	2 7/16	9 27/32 250	5 1/2 140	1 7/8 48	7 61/64 202	29/32 23	23/32 18	1 9/64 29	2 25/32 70.3	2 5/8 66.7	1.000 25.4	4 1/8 104.8	3/4 M20	NCFL212 NCFL212-39	FL212	NC212 NC212-39	4.9	

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.

NCFL-E
Cylindrical bore
(with concentric locking collar)
d 20 ~ 60 mm



Variations of tolerance of distance from mounting surface to center of spherical bore (ΔA_{2a}) and tolerance of position of bolt hole (X)

Housing No.	ΔA_{2a}	Unit: mm X
FL204E~FL210E	± 0.5	0.7
FL211E~FL212E	± 0.8	1

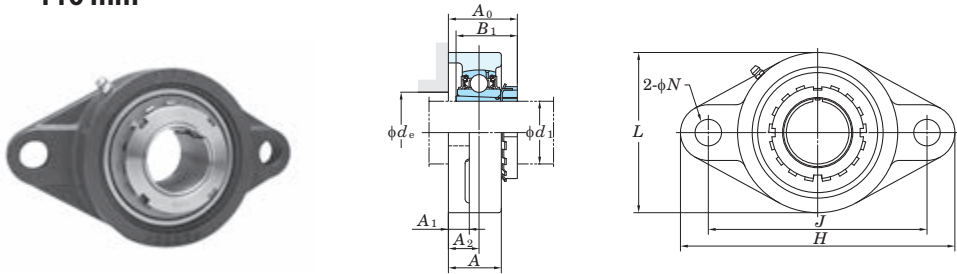
Variations of tolerance of bolt hole diameter (ΔN_b)

Housing No.	Unit: mm ΔN_b
FL204E~FL212E	± 0.2

Shaft Dia. mm inch		Dimensions inch mm												Bolt Size inch	Unit No.	Housing No.	Bearing No.	Mass kg
<i>d</i>		<i>H</i>	<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> ₁	<i>S</i>	<i>d</i> ₁						
20	3/4	4 7/16 113	2 3/8 60	1 25.5	3 17/32 89.7	25/64 10	7/16 11	19/32 15	1 3/8 34.8	1 9/32 32.5	0.500 12.7	1 3/4 44.5	5/16	NCFL204-12E NCFL204E	FL204E	NC204-12 NC204	0.62	
25	7/8 15/16	5 1/8 130	2 11/16 68	1 1/16 27	3 57/64 98.8	15/32 12	1/2 13	5/8 16	1 1/2 38.2	1 7/16 36.5	0.563 14.3	1 15/16 49.2	3/8	NCFL205-14E NCFL205-15E NCFL205E NCFL205-16E	FL205E	NC205-14 NC205-15 NC205 NC205-16	0.84	
	1																	
30	1 1/8	5 13/16 148	3 5/32 80	1 7/32 31	4 19/32 116.7	15/32 12	1/2 13	45/64 18	1 21/32 41.8	1 9/16 39.7	0.626 15.9	2 3/16 55.6	3/8	NCFL206-18E NCFL206E NCFL206-19E NCFL206-20E	FL206E	NC206-18 NC206 NC206-19 NC206-20	1.1	
	1 3/16																	
35	1 1/4	6 11/32 161	3 17/32 90	1 11/32 34	5 1/8 130.2	33/64 13	9/16 14	3/4 19	1 13/16 46	1 3/4 44.5	0.689 17.5	2 7/16 61.9	7/16	NCFL207-20E	FL207E	NC207-20	1.5	
	1 3/8	6 11/32 161	3 17/32 90	1 11/32 34	5 1/8 130.2	33/64 13	9/16 14	3/4 19	1 13/16 46	1 3/4 44.5	0.689 17.5	2 9/16 65.1	7/16	NCFL207-22E NCFL207E NCFL207-23E	FL207E	NC207-22 NC207 NC207-23	1.5	
40	1 1/2	6 7/8 175	3 15/16 100	1 13/32 36	5 21/32 143.7	33/64 13	9/16 14	53/64 21	2 3/32 52.8	2 50.8	0.748 19	2 11/16 68.3	7/16	NCFL208-24E NCFL208E	FL208E	NC208-24 NC208	2.0	
	1 5/8	7 13/32 188	4 1/4 108	1 1/2 38	5 27/32 148.4	19/32 15	19/32 15	55/64 22	2 1/8 53.8	2 50.8	0.748 19	2 13/16 71.4	1/2	NCFL209-26E	FL209E	NC209-26	2.3	
45	1 11/16	7 13/32 188	4 1/4 108	1 1/2 38	5 27/32 148.4	19/32 15	19/32 15	55/64 22	2 1/8 53.8	2 50.8	0.748 19	2 15/16 74.6	1/2	NCFL209-27E NCFL209-28E NCFL209E	FL209E	NC209-27 NC209-28 NC209	2.3	
	1 3/4																	
50	1 15/16	7 3/4 197	4 17/32 115	1 9/16 40	6 3/16 157	19/32 15	19/32 15	55/64 22	2 7/32 56.1	2 3/32 53.1	0.748 19	3 3/8 85.7	1/2	NCFL210-31E NCFL210E NCFL210-32E	FL210E	NC210-31 NC210 NC210-32	2.8	
	2																	
55	2	8 13/16 224	5 1/8 130	1 11/16 43	7 1/4 184	21/32 16.5	23/32 18	63/64 25	2 11/32 59.9	2 1/4 57.1	0.874 22.2	3 1/2 88.9	9/16	NCFL211-32E	FL211E	NC211-32	3.7	
	2 3/16	8 13/16 224	5 1/8 130	1 11/16 43	7 1/4 184	21/32 16.5	23/32 18	63/64 25	2 11/32 59.9	2 1/4 57.1	0.874 22.2	3 5/8 92.1	9/16	NCFL211E NCFL211-35E	FL211E	NC211 NC211-35	3.7	
60	2 1/4	9 27/32 250	5 1/2 140	1 7/8 48	7 61/64 202	21/32 16.5	23/32 18	1 9/64 29	2 25/32 70.3	2 5/8 66.7	1.000 25.4	4 1/16 103.2	9/16	NCFL212-36E	FL212E	NC212-36	4.9	
	2 7/16	9 27/32 250	5 1/2 140	1 7/8 48	7 61/64 202	21/32 16.5	23/32 18	1 9/64 29	2 25/32 70.3	2 5/8 66.7	1.000 25.4	4 1/8 104.8	9/16	NCFL212E NCFL212-39E	FL212E	NC212 NC212-39	4.9	

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.

UKFL
Tapered bore (with adapter)
 d_1 20 ~ 110 mm



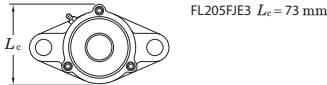
Variations of tolerance of distance from mounting surface to center of spherical bore (ΔA_{2a}) and tolerance of position of bolt hole (X)

Housing No.			ΔA_{2a}	X
FL205~FL210	FLX05~FLX10	FL305~FL310	± 0.5	0.7
FL211~FL218		FL311~FL324	± 0.8	1

Variations of tolerance of bolt hole diameter (ΔN_b)

Housing No.			ΔN_b
FL205~FL218	FLX05~FLX10	FL305~FL311	± 0.2
		FL312~FL324	± 0.3

Forms and dimensions of L_c of FL205FJE3 (housing with cast iron cover) are shown below.



Shaft Dia. mm inch		Dimensions inch mm										Bolt Size	Unit No.	Housing No.	Bearing No.	Adapter No.	Mass
d_1		H	L	A	J	N	A_1	A_2	A_0	B_1	d_e (min.)	inch mm					kg
20	$\frac{3}{4}$	5 $\frac{1}{8}$	2 $\frac{11}{16}$	1 $\frac{1}{16}$	3 $\frac{57}{64}$	$\frac{5}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	1 $\frac{13}{32}$	1 $\frac{3}{8}$	1 $\frac{3}{16}$	$\frac{1}{2}$	UKFL205	FL205	UK205	HE2305X	0.68
		130	68	27	99	16	13	16	36	35	30	M14				H2305X	0.68
	$\frac{3}{4}$	5 $\frac{9}{16}$	3 $\frac{9}{32}$	1 $\frac{3}{16}$	4 $\frac{39}{64}$	$\frac{15}{32}$	$\frac{1}{2}$	$\frac{45}{64}$	1 $\frac{9}{16}$	1 $\frac{3}{8}$	1 $\frac{3}{16}$	$\frac{3}{8}$	UKFLX05	FLX05	UKX05	HE2305X	1.0
25	$\frac{3}{4}$	5 $\frac{29}{32}$	3 $\frac{5}{32}$	1 $\frac{5}{32}$	4 $\frac{29}{64}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{5}{8}$	1 $\frac{15}{32}$	1 $\frac{3}{8}$	—	$\frac{5}{8}$	UKFL305	FL305	UK305	H2305X	1.0
		150	80	29	113	19	13	16	37.5	35	—	M16				H2305X	1.1
	$\frac{3}{4}$	5 $\frac{13}{16}$	3 $\frac{5}{32}$	1 $\frac{7}{32}$	4 $\frac{39}{64}$	$\frac{5}{8}$	$\frac{1}{2}$	$\frac{45}{64}$	1 $\frac{9}{16}$	1 $\frac{1}{2}$	1 $\frac{13}{32}$	$\frac{1}{2}$	UKFL206	FL206	UK206	H2306X	0.97
30	1	148	80	31	117	16	13	18	39.5	38	36	M14	UKFLX06	FLX06	UKX06	HE2306X	0.97
		156	95	34	130	16	14	19	42	38	36	M14				HE2306X	1.5
	1	180	90	32	134	23	15	18	41	38	—	$\frac{3}{4}$	UKFL306	FL306	UK306	H2306X	1.5
35	$\frac{1}{8}$	6 $\frac{11}{32}$	3 $\frac{17}{32}$	1 $\frac{11}{32}$	5 $\frac{1}{8}$	$\frac{5}{8}$	$\frac{9}{16}$	$\frac{5}{8}$	1 $\frac{21}{32}$	1 $\frac{1}{2}$	1 $\frac{13}{32}$	$\frac{1}{2}$	UKFL207	FL207	UK207	H2307X	1.3
		161	90	34	130	16	14	19	43	43	41	M14	UKFLX07	FLX07	UKX07	H2307X	1.8
	$\frac{1}{8}$	6 $\frac{23}{32}$	4 $\frac{1}{8}$	1 $\frac{1}{2}$	5 $\frac{43}{64}$	$\frac{5}{8}$	$\frac{9}{16}$	$\frac{53}{64}$	1 $\frac{27}{32}$	1 $\frac{11}{16}$	1 $\frac{5}{8}$	$\frac{1}{2}$	UKFL307	FL307	UK307	H2307X	1.9
40	$\frac{1}{8}$	7 $\frac{9}{32}$	3 $\frac{15}{16}$	1 $\frac{13}{32}$	5 $\frac{35}{64}$	$\frac{29}{32}$	$\frac{5}{8}$	$\frac{25}{32}$	1 $\frac{25}{32}$	1 $\frac{11}{16}$	—	$\frac{3}{4}$	UKFL208	FL208	UK208	HE2308X	1.6
		185	100	36	141	23	16	20	45.5	43	—	M20	UKFLX08	FLX08	UKX08	HS2308X	1.6
	$\frac{1}{4}$	6 $\frac{7}{8}$	3 $\frac{15}{16}$	1 $\frac{13}{32}$	5 $\frac{43}{64}$	$\frac{5}{8}$	$\frac{9}{16}$	$\frac{53}{64}$	1 $\frac{7}{8}$	1 $\frac{13}{16}$	1 $\frac{13}{16}$	$\frac{1}{2}$	UKFL308	FL308	UK308	HE2308X	2.1
45	$\frac{1}{4}$	7 $\frac{1}{16}$	4 $\frac{3}{8}$	1 $\frac{9}{16}$	5 $\frac{53}{64}$	$\frac{5}{8}$	$\frac{9}{16}$	$\frac{55}{64}$	1 $\frac{31}{32}$	1 $\frac{13}{16}$	1 $\frac{13}{16}$	$\frac{1}{2}$	UKFL209	FL209	UK209	HE2309X	2.0
		179	111	40	148	16	14	22	50	46	46	M14	UKFLX09	FLX09	UKX09	H2309X	2.0
	$\frac{1}{4}$	7 $\frac{7}{8}$	4 $\frac{13}{32}$	1 $\frac{9}{16}$	6 $\frac{7}{32}$	$\frac{29}{32}$	$\frac{21}{32}$	$\frac{29}{32}$	2	1 $\frac{13}{16}$	—	$\frac{3}{4}$	UKFL309	FL309	UK309	HE2309X	2.5
50	$\frac{1}{4}$	200	112	40	158	23	17	23	50.5	46	—	M20	UKFL210	FL210	UK210	HE2310X	2.3
		188	108	38	148	19	15	22	51	50	52	M16	UKFLX10	FLX10	UKX10	H2310X	2.3
	$\frac{1}{2}$	7 $\frac{7}{16}$	4 $\frac{9}{16}$	1 $\frac{9}{16}$	6 $\frac{3}{16}$	$\frac{5}{8}$	$\frac{9}{16}$	$\frac{29}{32}$	2 $\frac{1}{16}$	1 $\frac{31}{32}$	2 $\frac{1}{16}$	$\frac{1}{2}$	UKFL310	FL310	UK310	HE2310X	3.7
55	$\frac{1}{2}$	189	116	40	157	16	14	23	52	50	52	M14	UKFL211	FL211	UK211	HE2311X	3.3
		230	125	44	177	25	18	25	55	50	—	$\frac{7}{8}$	UKFLX11	FLX11	UKX11	H2311X	3.3
	$\frac{1}{2}$	9 $\frac{1}{16}$	4 $\frac{29}{32}$	1 $\frac{23}{32}$	6 $\frac{31}{32}$	$\frac{63}{64}$	$\frac{23}{32}$	$\frac{63}{64}$	2 $\frac{5}{32}$	1 $\frac{31}{32}$	—	$\frac{7}{8}$	UKFL311	FL311	UK311	HE2311X	4.4
60	$\frac{1}{2}$	240	140	48	187	25	19	28	60	55	—	M22	UKFL212	FL212	UK212	H2312X	4.1
		240	140	48	187	25	19	28	60	55	—	M22	UKFLX12	FLX12	UKX12	H2312X	4.1
	$\frac{3}{4}$	9 $\frac{7}{16}$	5 $\frac{1}{2}$	1 $\frac{7}{8}$	7 $\frac{23}{64}$	$\frac{63}{64}$	$\frac{3}{4}$	1 $\frac{7}{64}$	2 $\frac{3}{8}$	2 $\frac{5}{32}$	—	$\frac{7}{8}$	UKFL312	FL312	UK312	H2312X	6.9
65	$\frac{3}{4}$	240	140	48	187	25	19	28	60	55	—	M22	UKFL213	FL213	UK213	HE2313X	5.0
		250	140	48	187	25	19	28	60	55	—	M22	UKFLX13	FLX13	UKX13	H2313X	5.0
	$\frac{3}{4}$	10 $\frac{5}{8}$	6 $\frac{5}{16}$	2 $\frac{7}{32}$	8 $\frac{11}{32}$	1 $\frac{7}{32}$	$\frac{7}{8}$	1 $\frac{19}{64}$	2 $\frac{3}{4}$	2 $\frac{7}{16}$	—	1	UKFL313	FL313	UK313	HE2313X	8.6
70	$\frac{3}{4}$	270	160	56	212	31	22	33	69.5	62	—	M27	UKFL214	FL214	UK214	H2314X	5.6
		250	140	48	187	25	19	28	60	55	—	M22	UKFLX14	FLX14	UKX14	H2314X	5.6
	$\frac{3}{4}$	11 $\frac{5}{8}$	6 $\frac{7}{8}$	2 $\frac{9}{32}$	9 $\frac{29}{64}$	1 $\frac{7}{32}$	$\frac{31}{32}$	1 $\frac{19}{64}$	2 $\frac{13}{16}$	2 $\frac{9}{16}$	—	1	UKFL314	FL314	UK314	H2314X	8.6
75	$\frac{3}{4}$	295	175	58	240	31	25	33	71.5	65	—	M27	UKFL215	FL215	UK215	HE2315X	6.6
		275	165	56	225	23	20	34	74.5	73	85	M20	UKFLX15	FLX15	UKX15	H2315X	6.6
	$\frac{3}{4}$	12 $\frac{19}{32}$	7 $\frac{11}{16}$	2 $\frac{19}{32}$	10 $\frac{15}{64}$	1 $\frac{3}{8}$	1 $\frac{17}{32}$	3 $\frac{7}{32}$	2 $\frac{7}{8}$	—	—	$\frac{1}{8}$	UKFL315	FL315	UK315	HE2315X	11.4
80	$\frac{3}{4}$	320	195	66	260	35	30	39	81.5	73	—	M30	UKFL216	FL216	UK216	HE2316X	8.1
		290	180	58	233	25	20	34	78.5	78	90	M22	UKFLX16	FLX16	UKX16	H2316X	8.1
	$\frac{3}{4}$	13 $\frac{31}{32}$	8 $\frac{9}{32}$	2 $\frac{11}{16}$	11 $\frac{7}{32}$	1 $\frac{1}{2}$	1 $\frac{1}{4}$	1 $\frac{1}{2}$	3 $\frac{1}{4}$	3 $\frac{1}{16}$	—	1 $\frac{1}{4}$	UKFL316	FL316	UK316	HE2316X	13.9
85	$\frac{3}{4}$	355	210	68	285	38	32	38	82.5	78	—	M33	UKFL217	FL217	UK217	H2317X	9.9
		320	205	68	265	25	23	40	89.5	86	102	M22	UKFLX17	FLX17	UKX17	H2317X	9.9
	$\frac{3}{4}$	14 $\frac{9}{16}$	8 $\frac{21}{32}$	2 $\frac{29}{32}$	11 $\frac{13}{16}$	1 $\frac{1}{2}$	1 $\frac{1}{4}$	1 $\frac{47}{64}$	3 $\frac{5}{8}$	3 $\frac{7}{32}$	—	1 $\frac{1}{4}$	UKFL317	FL317	UK317	H2317X	15.8
90	$\frac{3}{4}$	370	220	74	300	38	32	44	92	82	—	M33	UKFL218	FL218	UK218	H2318X	12.2
		330	210	74	285	38	32	44	92	82	—	M33	UKFLX18	FLX18	UKX18	H2318X	12.2
	$\frac{3}{4}$	15 $\frac{5}{32}$	9 $\frac{1}{4}$	3	12 $\frac{13}{32}$	1 $\frac{1}{2}$	1 $\frac{13}{32}$	1 $\frac{47}{64}$	3 $\frac{5}{8}$	3 $\frac{3}{8}$	—	1 $\frac{1}{4}$	UKFL318	FL318	UK318	H2318X	19.1
95	$\frac{3}{4}$	385	235	76	315	38	36	44	92	86	—	M33	UKFL219	FL219	UK219	HE2319X	24.9
		340	220	74	285	38	32	44	92	82	—	M33	UKFLX19	FLX19	UKX19	H2319X	24.9
	$\frac{3}{4}$	16 $\frac{1}{16}$	9 $\frac{27}{32}$	3 $\frac{11}{16}$	12 $\frac{63}{64}$	1 $\frac{39}{64}$	1 $\frac{9}{16}$	2 $\frac{21}{64}$	4 $\frac{3}{8}$	3 $\frac{17}{32}$	—	1 $\frac{3}{8}$	UKFL319	FL319	UK319	HE2319X	29.0
100	$\frac{3}{4}$	405	250	94	330	41	40	59	111	90	—	M36	UKFL220	FL220	UK220	H2320X	29.0
		440	270	94	360	44	40	59	113	97	—	M39	UKFLX20	FLX20	UKX20	H2320X	29.0
	$\frac{3}{4}$	17 $\frac{5}{16}$	10 $\frac{5}{8}$	3 $\frac{11}{16}$	14 $\frac{11}{64}$	1 $\frac{47}{64}$	1 $\frac{9}{16}$	2 $\frac{21}{64}$	4 $\frac{7}{16}$	3 $\frac{13}{16}$	—	1 $\frac{1}{2}$	UKFL320	FL320	UK320	H2320X	36.1
105	$\frac{3}{4}$	470	300	96	390	44	42	60	120	105	—	M39	UKFL221	FL221	UK221	HE2321X	36.1
		470	300	96	390	44	42	60	120	105	—	M39	UKFLX21	FLX21	UKX21	HE2321X	36.1
	$\frac{3}{4}$	20 $\frac{15}{32}$	13	4 $\frac{11}{32}$	16 $\frac{59}{64}$	1 $\frac{27}{32}$	1 $\frac{7}{8}$	2 $\frac{9}{16}$	5 $\frac{1}{8}$	4 $\frac{13}{32}$	—	1 $\frac{5}{8}$	UKFL321	FL321	UK321	H2321X	51.9
110	$\frac{3}{4}$	520	330	110	430	47	48	65	130.5	112	—	M42	UKFL222	FL222	UK222	H2322X	51.9
		520	330	110	430	47	48	65	130.5	112	—	M42	UKFLX22	FLX22	UKX22	H2322X	51.9
	$\frac{3}{4}$	21 $\frac{1}{2}$	14	4 $\frac{11}{32}$	17 $\frac{59}{64}$	1 $\frac{27}{32}$	1 $\frac{7}{8}$	2 $\frac{9}{16}$	5 $\frac{1}{8}$	4 $\frac{13}{32}$	—	1 $\frac{5}{8}$	UKFL322	FL322	UK322	H2322X	51.9

Remarks 1. In Part No. of unit and units with covers, fitting codes follow bore diameter numbers. (See Table 10.5 in P62.)
2. Part No. of applicable grease fittings are shown below.
A-1/4-28UNF..... 205~210, X05~X09, 305~308
A-R1/8..... 211~218, X10, 309~324
3. 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.: UKFL206J + H2306X, UK206 + H2306X)
4. 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.: UKFL206JL3 + H2306X, UK206L3 + H2306X)
5. For the dimensions and forms of applicable bearings and adapters, see the dimensional tables of ball bearing for unit and adapter.
6. Housings of nodular graphite cast iron