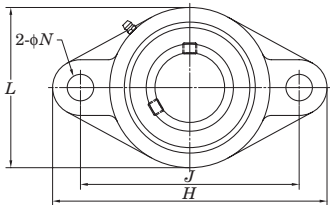
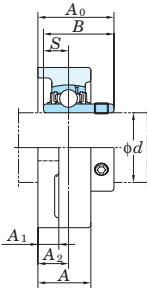
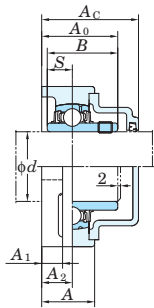
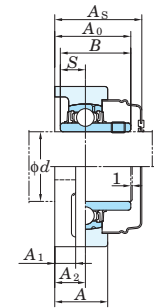


UCFL
Cylindrical bore (with set screws)
d 12 ~ (45) mm



With Pressed Steel Cover With Cast Iron Cover

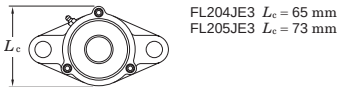


Variations of tolerance of distance from mounting surface to center of spherical bore (ΔA_{2s}) and tolerance of position of bolt hole (X) Unit: mm

Housing No.		ΔA_{2s}	X	
FL204-FL210	FLX05-FLX10	FL305-FL310	± 0.5	0.7
FL211-FL218		FL311-FL326	± 0.8	1

Variations of tolerance of bolt hole diameter (ΔN_s)			Unit: mm
Housing No.			ΔN_s
FL204~FL218	FLX05~FLX10	FL305~FL311	± 0.2
		FL312~FL326	± 0.3

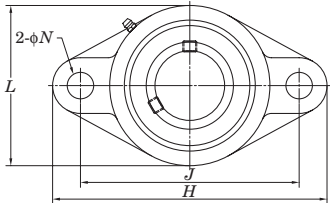
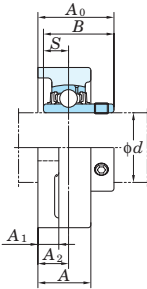
Forms and dimensions of L_c of FL204JE3 and FL205JE3 (housing with cast iron cover) are shown below.



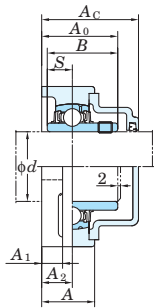
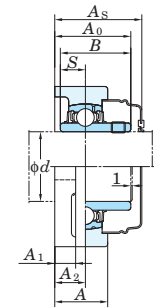
Shaft Dia. mm inch		Dimensions inch mm										Bolt Size inch mm	Standard				Mass	Basic		Factor	With Pressed Steel Cover					With Cast Iron Cover																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
													Unit No.	Housing No.	Bearing No.	Load Ratings kN		Open Type	Closed Type		mm	inch	Mass	Open Type	Closed Type	mm	inch	Mass																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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12	1/2 5/8 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 5/16 33.3	1.220 31	0.500 12.7	3/8 M10	UCFL201	FL204	UC201	0.50	12.8	6.65	13.2	UCFL201C	UCFL201D	37	1 15/32	0.50	—	—	—	—	—																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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25	7/8 15/16 1 1	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 13/32 35.8	1.343 34.1	0.563 14.3	1/2 M14	UCFL203	FL205	UC203	0.47	14.0	7.85	13.9	UCFL203C	UCFL203D	37	1 15/32	0.47	UCFL204	FLX05	UCX05	1.1	19.5	11.3	13.9	UCFL204C	UCFL204D	37	1 15/32	0.45	UCFL204FC	UCFL204FD	46	1 13/16	0.6																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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30	1 1/8 3/16 1 1/4 —	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 19/32 40.2	1.500 38.1	0.626 15.9	3/8 M10	UCFLX05	FLX05	UCX05	1.1	19.5	11.3	13.9	UCFLX05C	UCFLX05D	44	1 23/32	1.1	UCFL305	FL305	UC305	1.1	21.2	10.9	12.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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35	1 1/4 1 5/16 1 3/8 1 7/16 3/8	6 5/32 156	3 3/4 95	1 11/32 34	5 1/8 130	5/8 16	9/16 14	3/4 19	1 3/4 44.4	1.689 42.9	0.689 17.5	1/2 M14	UCFL206-20	FL206	UC206-18	0.93	25.7	15.4	13.9	UCFL206C	UCFL206D	44	1 23/32	0.93	UCFLX06	FLX06	UCX06	1.5	33.4	19.3	13.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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40	1 1/8 1 1/4 1 3/8 1 7/16 —	7 3/32 180	3 17/32 90	1 1/4 32	5 9/32 134	29/32 23	19/32 15	45/64 18	1 23/32 44	1.693 43	0.669 17	3/4 M20	UCFL305	FL305	UC305	1.1	26.7	15.0	13.3	—	—	—	—	—	—	UCFL306	FL306	UC306	1.5	34.1	21.3	14.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remarks 1. In Part No. of unit and units with covers, fitting codes follow bore diameter numbers. (See Table 10.5 in P.51.)
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, 309~326
3. As for the triple seal type product (from 201 to 205 are the double seal type products), accessory 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.

UCFL
Cylindrical bore (with set screws)
d (45) ~ (90) mm



With Pressed Steel Cover With Cast Iron Cover



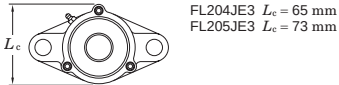
Variations of tolerance of distance from mounting surface to center of spherical bore (ΔA_{2s}) and tolerance of position of bolt hole (X)

Housing No.		ΔA_{2s}	X
FL204-FL210	FLX05-FLX10	± 0.5	0.7
FL211-FL218	FL311-FL326	± 0.8	1

Variations of tolerance of bolt hole diameter (ΔN_s)

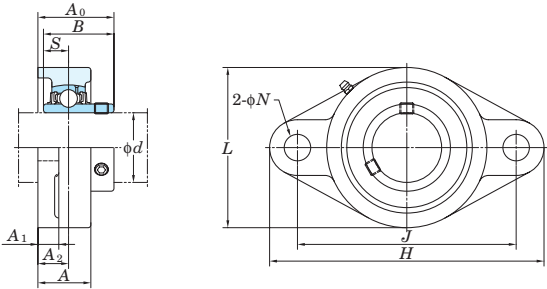
Housing No.		ΔN_s
FL204-FL218	FLX05-FLX10	± 0.2
	FL312-FL326	± 0.3

Forms and dimensions of L_c of FL204JE3 and FL205JE3 (housing with cast iron cover) are shown below.

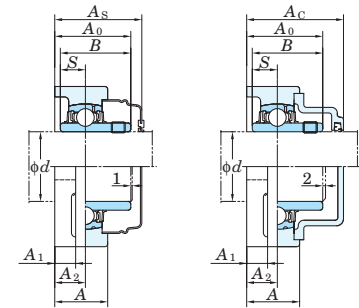


Shaft Dia. mm inch		Dimensions inch mm										Bolt Size inch mm	Standard				Mass kg	Basic Load Ratings kN		Factor <i>f</i> ₀	With Pressed Steel Cover				With Cast Iron Cover				
		Unit No.	Housing No.	Bearing No.	Unit No.	Dimension mm inch	Mass kg	Open Type	Closed Type	Unit No.	Dimension mm inch		Mass kg	Open Type	Closed Type	Unit No.		Dimension mm inch	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>	<i>C</i> _r	<i>C</i> _{0r}	<i>A</i> _s
45	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 UCFL309	FL309	UC309-28 UC309	3.5 3.5	48.9	29.5	13.3	—	—	—	—	—	—	—	—	—	
	1 7/8	230	125	44	177	25	18	25	60	57	22	M22	UCFL210-30 UCFL210-31 UCFL210	FL210	UC210-30 UC210-31 UC210	2.2 2.2 2.2	35.1	23.3	14.4	—	—	—	—	—	—	—	—	—	
50	1 15/16	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 UCFL210	FL210	UC210-31 UC210	2.2 2.2	35.1	23.3	14.4	UCFL210C	UCFL210D	59	2 5/16	2.2	UCFL210FC	UCFL210FD	70.5	2 25/32	2.7
	2	197	115	40	157	19	15	22	54.6	51.6	19	M16	UCFL210-32 UCFL210	FL210	UC210-32 UC210	2.2 2.2	35.1	23.3	14.4	—	—	—	—	—	—	—	—	—	
	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 UCFLX10	FLX10	UCX10-31 UCX10	3.8 3.8	43.4	29.4	14.4	—	—	—	—	—	—	—	—	—	
	2	216	133	44	184	19	20	26	59.4	55.6	22.2	M16	UCFLX10-32 UCFLX10-32	FLX10	UCX10-32 UCX10-32	3.8 3.8	43.4	29.4	14.4	UCFLX10C	UCFLX10D	64	2 17/32	3.8	—	—	—	—	
55	—	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	62.0	38.3	13.2	—	—	—	—	—	—	—	—	—	
	2	240	140	48	187	25	19	28	67	61	22	M22	UCFL211-32 UCFL211-34 UCFL211	FL211	UC211-32 UC211-34 UC211	3.3 3.3 3.3	43.4	29.4	14.4	—	—	—	—	—	—	—	—	—	
	2 1/8	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	UCFL211-35 UCFL211	FL211	UC211-35 UC211	3.3 3.3	43.4	29.4	14.4	UCFL211C	UCFL211D	63	2 15/32	3.3	UCFL211FC	UCFL211FD	74.5	2 15/16	3.9
	2 3/16	224	130	43	184	19	18	25	58.4	55.6	22.2	M16	UCFL211-35 UCFL211	FL211	UC211-35 UC211	3.3 3.3	43.4	29.4	14.4	—	—	—	—	—	—	—	—	—	
60	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	UCFL311-32 UCFL311	FL311	UC311-32 UC311	5.3 5.3	71.6	45.0	13.2	—	—	—	—	—	—	—	—	—	
	2 1/8	250	150	52	198	25	20	30	71	66	25	M22	UCFL311-35 UCFL311	FL311	UC311-35 UC311	5.3 5.3	71.6	45.0	13.2	—	—	—	—	—	—	—	—	—	
	2 3/8	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	UCFL212-36 UCFL212	FL212	UC212-36 UC212	4.2 4.2	52.4	36.2	14.4	—	—	—	—	—	—	—	—	—	
	2 7/16	250	140	48	202	23	18	29	68.7	65.1	25.4	M20	UCFL212-38 UCFL212-39	FL212	UC212-38 UC212-39	4.2 4.2	52.4	36.2	14.4	UCFL212C	UCFL212D	73	2 7/8	4.2	UCFL212FC	UCFL212FD	86	3 3/8	5.0
65	2 1/4	10 5/8	6 5/16	2 7/32	8 11/32	1 7/32	7/8	1 19/64	3 1/16	2.795	1.024	1	UCFL312 UCFL312-39	FL312	UC312 UC312-39	6.5 6.5	81.9	52.2	13.2	—	—	—	—	—	—	—	—	—	
	2 3/8	10 9/32	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	UCFL213-40 UCFL213	FL213	UC213-40 UC213	5.1 5.1	57.2	40.1	14.4	—	—	—	—	—	—	—	—	—	
	2 7/16	258	155	50	210	23	20	30	69.7	65.1	25.4	M20	UCFL213-40 UCFL213	FL213	UC213-40 UC213	5.1 5.1	57.2	40.1	14.4	UCFL213C	UCFL213D	74	2 29/32	5.1	UCFL213FC	UCFL213FD	87	3 7/16	5.9
	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 UCFL313	FL313	UC313-40 UC313	8.5 8.5	92.7	59.9	13.2	—	—	—	—	—	—	—	—	—	
70	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 UCFL313	FL313	UC313-40 UC313	8.5 8.5	92.7	59.9	13.2	—	—	—	—	—	—	—	—	—	
	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	UCFL214-44 UCFL214	FL214	UC214-44 UC214	5.7 5.7	62.2	44.1	14.5	—	—	—	—	—	—	—	—	—	
	2 7/16	265	160	54	216	23	20	31	75.4	74.6	30.2	M20	UCFL214-44 UCFL214	FL214	UC214-44 UC214	5.7 5.7	62.2	44.1	14.5	—	—	—	—	—	—	—	—		
	2 3/4	12 13/32	7 9/32	2 13/32	9 27/32	1 3/8	1 3/32	1 27/64	3 3/16	3.071	1.299	1 1/8	UCFL314-44 UCFL314	FL314	UC314-44 UC314	9.7 9.7	104	68.2	13.2	—	—	—	—	—	—	—	—		
75	2 3/4	12 13/32	7 9/32	2 13/32	9 27/32	1 3/8	1 3/32	1 27/64	3 3/16	3.071	1.299	1 1/8	UCFL314-44 UCFL314	FL314	UC314-44 UC314	9.7 9.7	104	68.2	13.2	—	—	—	—	—	—	—	—	—	
	2 15/16	10 13/16	6 1/2	2 7/32	8 55/64	29/32	25/32	1 11/32	3 3/32	3.063	1.311	3/4	UCFL215-47 UCFL215	FL215	UC215-47 UC215	6.4 6.4	67.4	48.3	14.5	—	—	—	—	—	—	—	—	—	
	3	275	165	56	225	23	20	34	78.5	77.8	33.3	M20	UCFL215-48 UCFL215	FL215	UC215-48 UC215	6.4 6.4	67.4	48.3	14.5	UCFL215C	UCFL215D	83	3 9/32	6.4	UCFL215FC	UCFL215FD	96	3 25/32	7.4
	2 15/16	12 19/32	7 11/16	2 19/32	10 15/64	1 3/8	1 3/16	1 17/32	3 1/2	3.228	1.260	1 1/8	UCFL315-47 UCFL315	FL315	UC315-47 UC315	11.3 11.3	113	77.2	13.2	—	—	—	—	—	—	—	—	—	
80	3	320	195	66	260	35	30	39	89	82	32	M30	UCFL315-48 UCFL315	FL315	UC315-48 UC315	11.3 11.3	113	77.2	13.2	—	—	—	—	—	—	—	—	—	
	3 1/8	11 13/32	7 3/32	2 9/32	9 11/64	63/64	25/32	1 11/32	3 9/32	3.252	1.311	7/8	UCFL216-50 UCFL216	FL216	UC216-50 UC216	7.8 7.8	72.7	53.0	14.6	—	—	—	—	—	—	—	—	—	
	—	290	180	58	233	25	20	34	83.3	82.6	33.3	M22	UCFL216-50 UCFL216	FL216	UC216-50 UC216	7.8 7.8	72.7	53.0	14.6	UCFL216C	UCFL216D	88	3 15/32	7.8	UCFL216FC	UCFL216FD	103	4 1/16	9.0
	3 1/4	12	7 15/32	2 15/32	9 49/64	63/64	7/8	1 27/64	3 7/16	3.374	1.343	1 1/4	UCFL316	FL316	UC316	14.4	123	86.7	13.3	—	—	—	—	—	—	—	—	—	
85	—	355	210	68	285	38	32	38	90	86	34	M33	UCFL316	FL316	UC316	14.4	123	86.7	13.3	—	—	—	—	—	—	—	—	—	
	3 1/4	12	7 15/32	2 15/32	9 49/64	63/64	7/8	1 27/64	3 7/16	3.374	1.343	1 1/4	UCFL316	FL316	UC316	14.4	123	86.7	13.3	—	—	—	—	—	—	—	—	—	
	3 1/2	14 9/16	8 21/32	2 29/32	11 13/16	1 1/2	1 1/4	1 47/64	3 15/16	3.780	1.575	1 1/4	UCFL217-52 UCFL217	FL217	UC217-52 UC217	9.8 9.8	84.0	61.9	14.5	—	—	—	—	—	—	—	—	—	
	—	305	190	63	248	25	22	36	87.6	85.7	34.1	M22	UCFL217-52 UCFL217	FL217	UC217-52 UC217	9.8 9.8	84.0	61.9	14.5	UCFL217C	UCFL217D	92	3 5/8	9.8	UCFL217FC	UCFL217FD	107	4 7/32	11.2
90	3 1/2	14 9/16	8 21/32	2 29/32	11 13/16	1 1/2	1 1/4	1 47/64	3 15/16	3.780	1.575	1 1/4	UCFL317	FL317	UC317	16.0	133	96.8	13.3	—	—	—	—	—	—	—	—	—	
	3 1/2	370	220	74	300	38	32	44	100	96	40	M33	UCFL317	FL317	UC317	16.0	133	96.8	13.3	—	—	—	—	—	—	—	—	—	
90	3 1/2	12 19/32	8 1/16	2 11/16	10 7/16	63/64	29/32	1 37/64	3 25/32	3.780	1.563	7/8	UCFL218-56 UCFL218	FL218	UC218-56 UC218	12.3 12.3	96.1	71.5	14.5	—	—	—	—	—	—	—	—	—	
	—	320	205	68	265	25	23	40	96.3	96	39.7	M22	UCFL218-56 UCFL218	FL218	UC218-56 UC218	12.3 12.3	96.1	71.5	14.5	UCFL218C	UCFL218D	101	3 31/32	12.3	UCFL218FC	UCFL218FD	116	4 9/16	13.8

UCFL
Cylindrical bore (with set screws)
d (90) ~ 130 mm



With Pressed Steel Cover With Cast Iron Cover



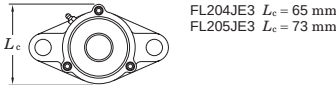
Variations of tolerance of distance from mounting surface to center of spherical bore (ΔA_{2s}) and tolerance of position of bolt hole (X)

Housing No.			ΔA_{2s}	X
FL204-FL210	FLX05-FLX10	FL305-FL310	± 0.5	0.7
FL211-FL218		FL311-FL326	± 0.8	1

Variations of tolerance of bolt hole diameter (ΔN_s)

Housing No.			ΔN_s
FL204-FL218	FLX05-FLX10	FL305-FL311	± 0.2
		FL312-FL326	± 0.3

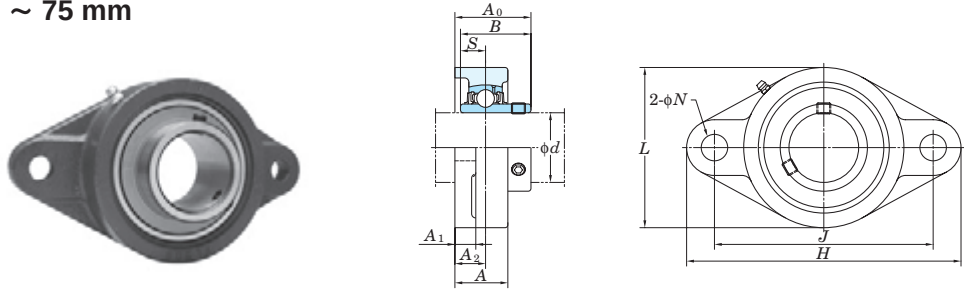
Forms and dimensions of L_c of FL204JE3 and FL205JE3 (housing with cast iron cover) are shown below.



Shaft Dia. mm inch		Dimensions inch mm										Bolt Size inch mm	Standard				Mass kg	Basic Load Ratings kN		Factor <i>f</i> ₀	With Pressed Steel Cover				With Cast Iron Cover			
		Unit No.	Housing No.	Bearing No.	Unit No.	Dimension mm inch	Mass kg	Unit No.		Dimension mm inch	Mass kg		Unit No.		Dimension mm inch	Mass kg												
Open Type	Closed Type							Open Type	Closed Type			Open Type	Closed Type															
90	3 1/2	15 5/32	9 1/4	3	12 13/32	1 1/2	1 13/32	1 47/64	3 15/16	3.780	1.575	1 1/4	UCFL318-56 UCFL318	FL318	UC318-56 UC318	19.0	143	107	13.3	—	—	—	—	—	—	—	—	
		385	235	76	315	38	36	44	100	96	40	M33				19.0				—	—	—	—	UCFL318C	UCFL318D	119	4 11/16	20.9
95	—	15 15/16	9 27/32	3 11/16	13	1 39/64	1 9/16	2 21/64	4 3/4	4.055	1.614	1 3/8	UCFL319	FL319	UC319	24.6	153	119	13.3	—	—	—	—	—	—	—	—	
		405	250	94	330	41	40	59	121	103	41	M36				—				—	—	—	UCFL319C	UCFL319D	140	5 1/2	26.8	
100	3 15/16 4	17 5/16	10 5/8	3 11/16	14 11/64	1 47/64	1 9/16	2 21/64	4 29/32	4.252	1.654	1 1/2	UCFL320 UCFL320-63 UCFL320-64	FL320	UC320 UC320-63 UC320-64	29.4	173	141	13.2	—	—	—	—	—	—	—	—	
		440	270	94	360	44	40	59	125	108	42	M39				29.4				—	—	—	—	—	—	—	—	
																29.4				—	—	—	—	—	—	—	—	—
																				—	—	—	—	—	—	—	—	—
110	—	18 1/2	11 13/16	3 25/32	15 23/64	1 47/64	1 21/32	2 23/64	5 5/32	4.606	1.811	1 1/2	UCFL322	FL322	UC322	36.2	205	180	13.2	—	—	—	—	—	—	—	—	
120	—	20 15/32	13	4 11/32	16 59/64	1 27/32	1 7/8	2 9/16	5 1/2	4.961	2.008	1 5/8	UCFL324	FL324	UC324	51.6	207	185	13.5	—	—	—	—	—	—	—	—	
		520	330	110	430	47	48	65	140	126	51	M42				—				—	—	—	UCFL324C	UCFL324D	163	6 13/32	56.4	
130	—	21 21/32	14 3/16	4 17/32	18 7/64	1 27/32	1 31/32	2 9/16	5 3/4	5.315	2.126	1 5/8	UCFL326	FL326	UC326	61.6	229	214	13.6	—	—	—	—	—	—	—	—	
		550	360	115	460	47	50	65	146	135	54	M42				—				—	—	—	UCFL326C	UCFL326D	172	6 25/32	67.7	

- Remarks 1. In Part No. of unit and units with covers, fitting codes follow bore diameter numbers. (See **Table 10.5** in P.51.)
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, 309~326
3. As for the triple seal type product (from 201 to 205 are the double seal type products), accessory 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.

UCFL-E
Cylindrical bore (with set screws)
d 12 ~ 75 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_b)

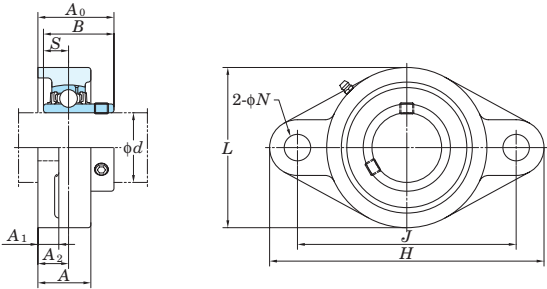
Unit: mm	
Housing No.	ΔN_b
FL203E-FL217E	±0.2

Shaft Dia. mm inch		Dimensions inch mm										Bolt Size inch	Unit No.	Housing No.	Bearing No.	Basic Load Ratings kN		Factor f_0	Mass kg
d		H	L	A	J	N	A ₁	A ₂	A ₀	B	S					C _r	C _{0r}		
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	12.8	6.65	13.2	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
													UCFL203E		UC203				
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	UCFL204-12E	FL204E	UC204-12	12.8	6.65	13.2	0.48
		113	60	25.5	89.7	10	11	15	33.3	31	12.7		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	FL205E	UC205-14	14.0	7.85	13.9	0.64
	15/16	130	68	27	98.8	12	13	16	35.8	34.1	14.3		UCFL205-15E		UC205-15				
	1												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	FL206E	UC206-18	19.5	11.3	13.9	0.93
	1 3/16	148	80	31	116.7	12	13	18	40.2	38.1	15.9		UCFL206E		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	FL207E	UC207-20	25.7	15.4	13.9	1.2
	1 5/16	161	90	34	130.2	13	14	19	44.4	42.9	17.5		UCFL207-21E		UC207-21				
	1 3/8												UCFL207-22E		UC207-22				
													UCFL207E		UC207				
	1 7/16												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	FL208E	UC208-24	29.1	17.8	14.0	1.6
	1 9/16	175	100	36	143.7	13	14	21	51.2	49.2	19		UCFL208-25E		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	FL209E	UC209-26	34.1	21.3	14.0	1.9
	1 11/16	188	108	38	148.4	15	15	22	52.2	49.2	19		UCFL209-27E		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	FL210E	UC210-30	35.1	23.3	14.4	2.2
	1 15/16	197	115	40	157	15	15	22	54.6	51.6	19		UCFL210-31E		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	FL211E	UC211-32	43.4	29.4	14.4	3.3
	2 1/8	224	130	43	184	16.5	18	25	58.4	55.6	22.2		UCFL211-34E		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	FL212E	UC212-36	52.4	36.2	14.4	4.2
	2 3/8	250	140	48	202	16.5	18	29	68.7	65.1	25.4		UCFL212E		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	FL213E	UC213-40	57.2	40.1	14.4	5.2
		258	155	50	210	16.5	20	30	69.7	65.1	25.4		UCFL213E		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	FL214E	UC214-44	62.2	44.1	14.5	5.7
		265	160	54	216	16.5	20	31	75.4	74.6	30.2		UCFL214E		UC214				
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	FL215E	UC215-47	67.4	48.3	14.5	6.4
	3	275	165	56	225	19	20	34	78.5	77.8	33.3		UCFL215E		UC215				
													UCFL215-48E		UC215-48				

Remarks 1. In Part No. of unit, fitting codes follow bore diameter numbers. (See Table 10.5 in P.51.)
2. Part No. of applicable grease fittings are shown below.
A-1/4-28UNF 201~210
A-R1/8 211~217

3. As for the triple seal type product (from 201 to 205 are the double seal type products), accessory code L3 (or L2) follows the Part No. of unit or bearing. (Example of Part No. : UCFL206EJL3, 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.

UCFL-E
Cylindrical bore (with set screws)
d 80 ~ 85 mm



Variations of tolerance of distance from mounting surface to center of spherical bore (Δ_{A2s}) and tolerance of position of bolt hole (X)

Unit: mm		
Housing No.	Δ_{A2s}	X
FL203E-FL210E	± 0.5	0.7
FL211E-FL217E	± 0.8	1

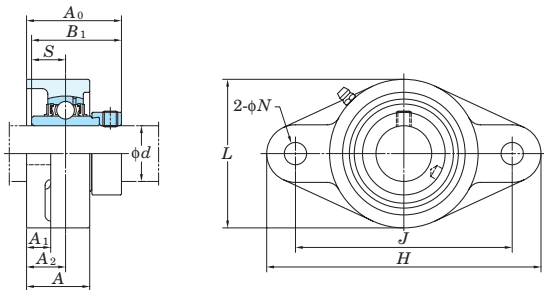
Variations of tolerance of bolt hole diameter (Δ_{Ns})

Unit: mm	
Housing No.	Δ_{Ns}
FL203E-FL217E	± 0.2

Shaft Dia. mm inch		Dimensions inch mm										Bolt Size inch	Unit No.	Housing No.	Bearing No.	Basic Load Ratings kN		Factor	Mass
<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>					<i>C</i> _r	<i>C</i> _{0r}	<i>f</i> ₀	kg
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	11/16	UCFL216-50E UCFL216E	FL216E	UC216-50 UC216	72.7	53.0	14.6	7.8
		290	180	58	233	19	20	34	83.3	82.6	33.3								
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	11/16	UCFL217-52E UCFL217E	FL217E	UC217-52 UC217	84.0	61.9	14.5	9.8
		305	190	63	248	19	22	36	87.6	85.7	34.1								

- Remarks 1. In Part No. of unit, fitting codes follow bore diameter numbers. (See **Table 10.5** in P.51.)
2. Part No. of applicable grease fittings are shown below.
A-1/4-28UNF 201~210
A-R1/8 211~217
3. As for the triple seal type product (from 201 to 205 are the double seal type products), accessory code L3 (or L2) follows the Part No. of unit or bearing. (Example of Part No. : UCFL206EJL3, 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.

NANFL
Cylindrical bore
(with eccentric locking collar)
d 12 ~ 55 mm



Variations of tolerance of distance from mounting surface to center of spherical bore (Δ_{A2s}) and tolerance of position of bolt hole (*X*)

Unit: mm		
Housing No.	Δ_{A2s}	<i>X</i>
NFL204~NFL210	±0.5	0.7
NFL211	±0.8	1

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

Unit: mm	
Housing No.	Δ_{Ns}
NFL204~NFL211	±0.2

Shaft Dia mm inch		Dimensions inch mm										Bolt Size inch	Unit No.	Housing No.	Bearing No.	Basic Load Ratings kN		Factor <i>f</i> ₀	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>C</i> _r	<i>C</i> _{0r}		
12	1/2												NANFL201		NA201				
15	5/8	4 7/16	2 3/8	1 5/32	3 17/32	25/64	7/16	3/4	1 25/32	1.720	0.673	5/16	NANFL201-8	NFL204	NA201-8	12.8	6.65	13.2	0.59
17	3/4	113	60	29.5	89.7	10	11	19	45.6	43.7	17.1		NANFL202		NA202				
20													NANFL202-10		NA202-10				
													NANFL203		NA203				
													NANFL204-12		NA204-12				
													NANFL204		NA204				
25	7/8	5 1/8	2 11/16	1 7/32	3 57/64	15/32	1/2	25/32	1 27/32	1.748	0.689	3/8	NANFL205-14	NFL205	NA205-14	14.0	7.85	13.9	0.9
	15/16	130	68	31	98.8	12	13	20	46.9	44.4	17.5		NANFL205-15		NA205-15				
	1												NANFL205		NA205				
													NANFL205-16		NA205-16				
30	1 1/8	5 13/16	3 5/32	1 11/32	4 19/32	15/32	1/2	53/64	2	1.906	0.720	3/8	NANFL206-18	NFL206	NA206-18	19.5	11.3	13.9	1.1
	1 3/16	148	80	34	116.7	12	13	21	51.1	48.4	18.3		NANFL206		NA206				
	1 1/4												NANFL206-19		NA206-19				
													NANFL206-20		NA206-20				
35	1 1/4	6 11/32	3 17/32	1 7/16	5 1/8	33/64	9/16	27/32	2 1/8	2.012	0.740	7/16	NANFL207-20	NFL207	NA207-20	25.7	15.4	13.9	1.6
	1 5/16	161	90	36.5	130.2	13	14	21.5	53.8	51.1	18.8		NANFL207-21		NA207-21				
	1 3/8												NANFL207-22		NA207-22				
	1 7/16												NANFL207		NA207				
													NANFL207-23		NA207-23				
40	1 1/2	6 7/8	3 15/16	1 17/32	5 21/32	33/64	9/16	15/16	2 5/16	2.217	0.843	7/16	NANFL208-24	NFL208	NA208-24	29.1	17.8	14.0	2.0
	1 9/16	175	100	39	143.7	13	14	24	58.9	56.3	21.4		NANFL208-25		NA208-25				
													NANFL208		NA208				
45	1 5/8	7 13/32	4 1/4	1 9/16	5 27/32	19/32	9/16	15/16	2 5/16	2.217	0.843	1/2	NANFL209-26	NFL209	NA209-26	34.1	21.3	14.0	2.3
	1 11/16	188	108	40	148.4	15	14	24	58.9	56.3	21.4		NANFL209-27		NA209-27				
	1 3/4												NANFL209-28		NA209-28				
													NANFL209		NA209				
50	1 7/8	7 3/4	4 17/32	1 27/32	6 3/16	19/32	9/16	1 1/8	2 5/8	2.469	0.969	1/2	NANFL210-30	NFL210	NA210-30	35.1	23.3	14.4	2.7
	1 15/16	197	115	46.5	157	15	14	28.5	66.6	62.7	24.6		NANFL210-31		NA210-31				
	2												NANFL210		NA210				
													NANFL210-32		NA210-32				
55	2	8 13/16	5 1/8	1 31/32	7 1/4	21/32	25/32	1 17/64	2 31/32	2.811	1.094	9/16	NANFL211-32	NFL211	NA211-32	43.4	29.4	14.4	4.1
	2 1/8	224	130	50	184	16.5	20	32	75.6	71.4	27.8		NANFL211-34		NA211-34				
	2 3/16												NANFL211		NA211				
													NANFL211-35		NA211-35				

Remarks 1. In Part No. of unit and units with covers, fitting codes follow bore diameter numbers. (See Table 10.5 in P.51.)

2. Part No. of applicable grease fittings are shown below.

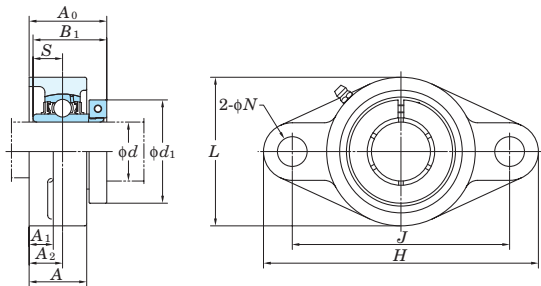
A-1/4-28UNF 201~210

A-R1/8 211

3. For the dimensions and forms of applicable bearings, see the dimensional tables of ball bearing for unit.

4. Housings of nodular graphite cast iron are also available.

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



Variations of tolerance of distance from mounting surface to center of spherical bore (Δ_{A2s}) and tolerance of position of bolt hole (*X*)

Unit: mm		
Housing No.	Δ_{A2s}	<i>X</i>
FL204~FL210	±0.5	0.7
FL211~FL212	±0.8	1

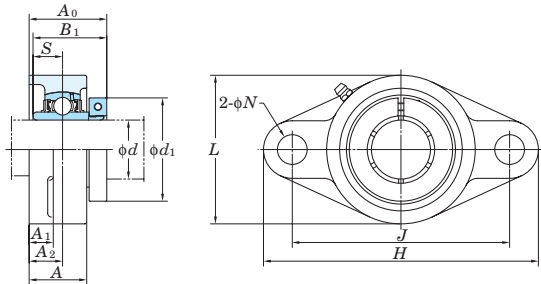
Variations of tolerance of bolt hole diameter (Δ_{Ns})

Unit: mm	
Housing No.	Δ_{Ns}
FL204~FL212	±0.2

Shaft Dia. mm inch		Dimensions inch mm												Bolt Size inch mm	Unit No.	Housing No.	Bearing No.	Basic Load Ratings kN		Factor	Mass
<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						<i>C</i> _r	<i>C</i> _{0r}	<i>f</i> ₀	kg
20	3/4	4 7/16	2 3/8	1	3 35/64	15/32	7/16	19/32	1 3/8	1 9/32	0.500	1 3/4	3/8	NCFL204-12	FL204	NC204-12		12.8	6.65	13.2	0.62
		113	60	25.5	90	12	11	15	34.8	32.5	12.7	44.5	M10	NCFL204		NC204					
25	7/8	5 1/8	2 11/16	1 1/16	3 57/64	5/8	1/2	5/8	1 1/2	1 7/16	0.563	1 15/16	1/2	NCFL205-14	FL205	NC205-14		14.0	7.85	13.9	0.84
	15/16													NCFL205-15		NC205-15					
30	1	5 1/8	2 11/16	1 1/16	3 57/64	5/8	1/2	5/8	1 1/2	1 7/16	0.563	1 15/16	1/2	NCFL205		NC205					
		130	68	27	99	16	13	16	38.2	36.5	14.3	49.2	M14	NCFL205-16		NC205-16					
35	1 1/8	5 13/16	3 5/32	1 7/32	4 39/64	5/8	1/2	45/64	1 21/32	1 9/16	0.626	2 3/16	1/2	NCFL206-18	FL206	NC206-18		19.5	11.3	13.9	1.1
	1 3/16													NCFL206		NC206					
40	1 1/4	6 11/32	3 17/32	1 11/32	5 1/8	5/8	9/16	3/4	1 13/16	1 3/4	0.689	2 7/16	1/2	NCFL206-19		NC206-19					
		148	80	31	117	16	13	18	41.8	39.7	15.9	55.6	M14	NCFL206-20		NC206-20					
45	1 1/2	6 7/8	3 15/16	1 13/32	5 43/64	5/8	9/16	53/64	2 3/32	2	0.748	2 11/16	1/2	NCFL207-20	FL207	NC207-20		25.7	15.4	13.9	1.5
		161	90	34	130	16	14	19	46	44.5	17.5	61.9	M14	NCFL207-22		NC207-22					
50	1 3/8	6 11/32	3 17/32	1 11/32	5 1/8	5/8	9/16	3/4	1 13/16	1 3/4	0.689	2 9/16	1/2	NCFL207		NC207					
	1 7/16													NCFL207-23		NC207-23					
55	1 1/2	6 7/8	3 15/16	1 13/32	5 43/64	5/8	9/16	53/64	2 3/32	2	0.748	2 11/16	1/2	NCFL208-24	FL208	NC208-24		29.1	17.8	14.0	2.0
		175	100	36	144	16	14	21	52.8	50.8	19	68.3	M14	NCFL208		NC208					
60	1 5/8	7 13/32	4 1/4	1 1/2	5 53/64	3/4	19/32	55/64	2 1/8	2	0.748	2 13/16	5/8	NCFL209-26	FL209	NC209-26		34.1	21.3	14.0	2.3
		188	108	38	148	19	15	22	53.8	50.8	19	71.4	M16	NCFL209-27		NC209-27					
65	1 11/16	7 13/32	4 1/4	1 1/2	5 53/64	3/4	19/32	55/64	2 1/8	2	0.748	2 15/16	5/8	NCFL209-28		NC209-28					
	1 3/4													NCFL209		NC209					
70	1 15/16	7 3/4	4 17/32	1 9/16	6 3/16	3/4	19/32	55/64	2 7/32	2 3/32	0.748	3 3/8	5/8	NCFL210-31	FL210	NC210-31		35.1	23.3	14.4	2.8
	2													NCFL210		NC210					
75	2	8 13/16	5 1/8	1 11/16	7 1/4	3/4	23/32	63/64	2 11/32	2 1/4	0.874	3 1/2	5/8	NCFL211-32	FL211	NC211-32					
		224	130	43	184	19	18	25	59.9	57.1	22.2	88.9	M16	NCFL211		NC211					
80	2 3/16	8 13/16	5 1/8	1 11/16	7 1/4	3/4	23/32	63/64	2 11/32	2 1/4	0.874	3 5/8	5/8	NCFL211-35		NC211-35					
		224	130	43	184	19	18	25	59.9	57.1	22.2	92.1	M16								
85	2 1/4	9 27/32	5 1/2	1 7/8	7 61/64	29/32	23/32	1 9/64	2 25/32	2 5/8	1.000	4 1/16	3/4	NCFL212-36	FL212	NC212-36		52.4	36.2	14.4	4.9
		250	140	48	202	23	18	29	70.3	66.7	25.4	103.2	M20	NCFL212		NC212					
90	2 7/16	9 27/32	5 1/2	1 7/8	7 61/64	29/32	23/32	1 9/64	2 25/32	2 5/8	1.000	4 1/8	3/4	NCFL212-39		NC212-39					
		250	140	48	202	23	18	29	70.3	66.7	25.4	104.8	M20								

Remarks 1. In Part No. of unit, fitting codes follow bore diameter codes. (See **Table 10.5** in P.51.)
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 (Δ_{A2s}) and tolerance of position of bolt hole (*X*)

Unit: mm		
Housing No.	Δ_{A2s}	<i>X</i>
FL204E-FL210E	±0.5	0.7
FL211E-FL212E	±0.8	1

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

Unit: mm	
Housing No.	Δ_{Ns}
FL204E-FL212E	±0.2

Shaft Dia. mm inch		Dimensions inch mm												Bolt Size inch	Unit No.	Housing No.	Bearing No.	Basic Load Ratings kN		Factor	Mass
<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					<i>C</i> _r	<i>C</i> _{0r}	<i>f</i> ₀	kg	
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	12.8	6.65	13.2	0.62	
	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	14.0	7.85	13.9	0.84	
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	19.5	11.3	13.9	1.1	
	1 3/16																				
	1 1/4																				
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	25.7	15.4	13.9	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	25.7	15.4	13.9	1.5	
	1 7/16																				
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	29.1	17.8	14.0	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	34.1	21.3	14.0	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	34.1	21.3	14.0	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	35.1	23.3	14.4	2.8	
	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	43.4	29.4	14.4	3.7	
55	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	43.4	29.4	14.4	3.7	
	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	52.4	36.2	14.4	4.9	
60	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	52.4	36.2	14.4	4.9	

Remarks 1. In Part No. of unit, fitting codes follow bore diameter codes. (See **Table 10.5** in P.51.)

2. Part No. of applicable grease fittings are shown below.

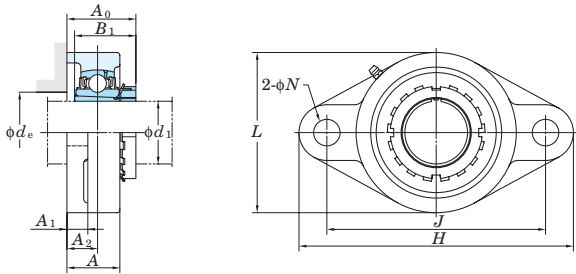
A-1/4-28UNF 204~210

A-R1/8 211~212

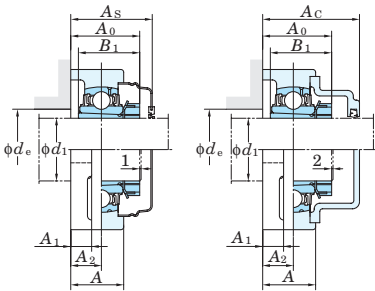
3. For the dimensions and forms of applicable bearings, see the dimensional tables of ball bearing for unit.

4. Representative examples of the forms of housing are indicated.

UKFL
Tapered bore (with adapter)
d₁ 20 ~ 50 mm



With Pressed Steel Cover With Cast Iron Cover



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

Housing No.		ΔA_{2s}	X
FL205~FL210	FLX05~FLX10	±0.5	0.7
FL211~FL218	FL311~FL326	±0.8	1

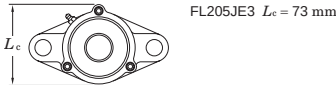
Unit: mm

Variations of tolerance of bolt hole diameter (ΔN_s)

Housing No.		ΔN_s
FL205~FL218	FLX05~FLX10	±0.2
	FL312~FL326	±0.3

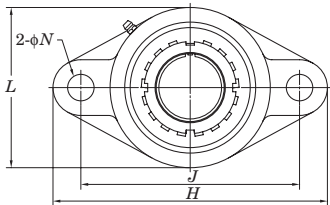
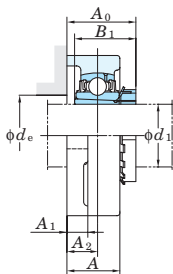
Unit: mm

Forms and dimensions of L_c of FL205JE3 (housing with cast iron cover) are shown below.

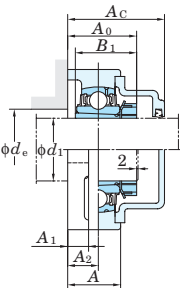
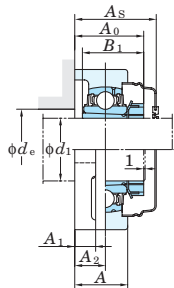


Shaft Dia. mm inch		Dimensions inch mm										Bolt Size inch mm	Standard			Adapter ¹⁾ No.	Mass kg	Basic		Factor	With Pressed Steel Cover				With Cast Iron Cover			
		Unit No.	Housing No.	Bearing No.	Load Ratings kN	C _r	C _{0r}	f ₀	Unit No.		Dimension		Mass kg	Unit No.				Dimension			Mass kg							
d ₁	H								L	A	J	N		A ₁	A ₂	A ₀ ¹⁾	B ₁ ¹⁾	d _e (min.)	Open Type	Closed Type		mm	inch	Open Type	Closed Type	mm	inch	

UKFL
Tapered bore (with adapter)
d₁ 55 ~ 115 mm



With Pressed Steel Cover With Cast Iron Cover

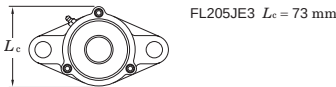


Variations of tolerance of distance from mounting surface to center of spherical bore (ΔA_{2s}) and tolerance of position of bolt hole (X)

Housing No.		ΔA_{2s}	X
FL205~FL210	FLX05~FLX10	± 0.5	0.7
FL211~FL218		± 0.8	1

Variations of tolerance of bolt hole diameter (ΔN_s)			Unit: mm
Housing No.			ΔN_s
FL205~FL218	FLX05~FLX10	FL305~FL311	± 0.2
		FL312~FL326	± 0.3

Forms and dimensions of L_c of FL205JE3 (housing with cast iron cover) are shown below.



Shaft Dia. mm inch		Dimensions inch mm											Bolt Size inch mm	Standard				Adapter ¹⁾ No.	Mass kg	Basic		Factor f_0	With Pressed Steel Cover				With Cast Iron Cover																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
		H	L	A	J	N	A_1	A_2	$A_0^{1)}$	$B_1^{1)}$	d_e (min.)	Unit No.		Housing No.	Bearing No.	C_r	C_{0r}			Unit No. Open Type Closed Type	Dimension mm inch		Mass kg	Unit No. Open Type Closed Type	Dimension mm inch	Mass kg																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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Note 1) Codes shown in parentheses indicate the dimensions and Part No. of applicable adapter (H2300X series) for UK200L3 series (triple seal type).

Remarks 1. In Part No. of unit and units with covers, fitting codes follow bore diameter numbers. (See Table 10.5 in P.51.)

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, 309~326

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 + H306X, UK206 + H306X)

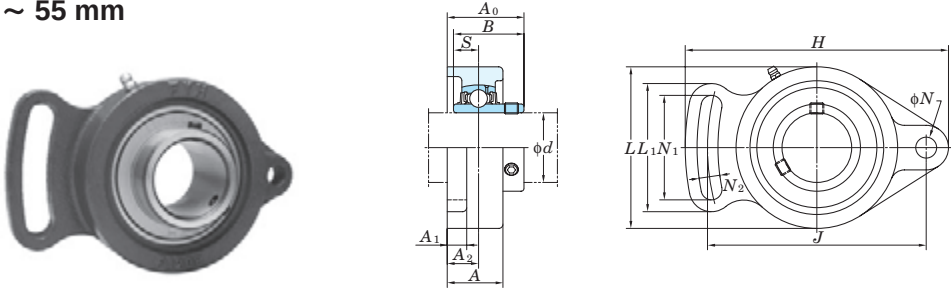
4. As for the triple seal type product (205 is the double seal type product), accessory code L3 (or L2) follows the Part No. of unit or bearing.

(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 are also available.

UCFA
Cylindrical bore (with set screws)
d 12 ~ 55 mm



Variations of tolerance of distance from mounting surface to center of spherical bore (ΔA_{2s})

Unit: mm	
Housing No.	ΔA_{2s}
FA204-FA210	±0.5
FA211	±0.8

Variations of tolerance of bolt hole diameter (ΔN_s)

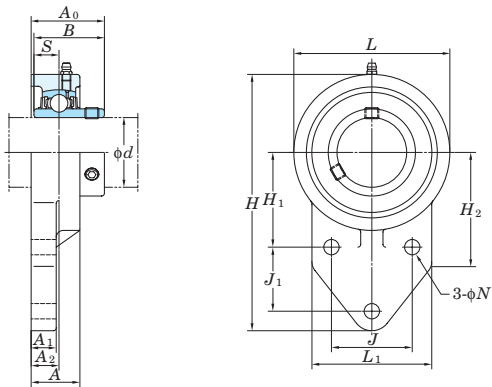
Unit: mm	
Housing No.	ΔN_s
FA204-FA211	±0.2

Shaft Dia. mm inch		Dimensions inch mm													Bolt Size inch mm	Unit No.	Housing No.	Bearing No.	Basic Load Ratings kN		Factor f_0	Mass kg
d		H	L	A	J	N	N_1	N_2	L_1	A_1	A_2	A_0	B	S					C_r	C_{0r}		
12	1/2															UCFA201		UC201				0.47
15	5/8	3 27/32	2 5/16	15/16	3 5/64	25/64	1 9/16	13/32	1 31/32	7/16	35/64	1 1/4	1.220	0.500	5/16	UCFA201-8	FA204	UC201-8	12.8	6.65	13.2	0.45
17	3/4	98	59	24	78	10	40	10	50	11	13.8	32.1	31	12.7	M8	UCFA202		UC202				
																UCFA202-10		UC202-10				0.44
																UCFA203		UC203				
																UCFA204-12		UC204-12				
20																UCFA204		UC204				0.42
																UCFA205-14	FA205	UC205-14				
25	7/8	4 7/8	2 3/4	1 1/16	3 55/64	7/16	1 15/16	7/16	2 17/32	1/2	5/8	1 13/32	1.343	0.563	3/8	UCFA205-15		UC205-15	14.0	7.85	13.9	0.68
	15/16	124	70	27	98	11	49	11	64	13	16	35.8	34.1	14.3	M10	UCFA205		UC205				
	1															UCFA205-16		UC205-16				
																UCFA206-18	FA206	UC206-18				
30	1 1/8	5 9/16	3 9/32	1 3/16	4 39/64	7/16	2 7/32	15/32	2 11/16	1/2	45/64	1 9/16	1.500	0.626	3/8	UCFA206		UC206	19.5	11.3	13.9	1.0
	1 3/16	141	83	30	117	11	56	12	68	13	17.8	40	38.1	15.9	M10	UCFA206-19		UC206-19				
	1 1/4															UCFA206-20		UC206-20				
																UCFA207-20	FA207	UC207-20				
35	1 1/4	6 3/32	3 25/32	1 11/32	5 1/8	33/64	2 15/32	1/2	2 15/16	9/16	47/64	1 23/32	1.689	0.689	7/16	UCFA207-21		UC207-21	25.7	15.4	13.9	1.5
	1 5/16	155	96	34	130	13	63	13	75	14	18.6	44	42.9	17.5	M12	UCFA207-22		UC207-22				
	1 3/8															UCFA207		UC207				
	1 7/16															UCFA207-23		UC207-23				
																UCFA208-24	FA208	UC208-24				
40	1 1/2	6 23/32	4 1/8	1 1/2	5 43/64	33/64	2 3/4	1/2	3 5/16	9/16	13/16	2	1.937	0.748	7/16	UCFA208-25		UC208-25	29.1	17.8	14	1.9
	1 9/16	171	105	38	144	13	70	13	84	14	20.8	51	49.2	19	M12	UCFA208		UC208				
																UCFA209-26	FA209	UC209-26				
45	1 5/8	7 1/16	4 3/8	1 9/16	5 53/64	19/32	2 27/32	19/32	3 15/32	9/16	55/64	2 1/16	1.937	0.748	1/2	UCFA209-27		UC209-27	34.1	21.3	14	1.7
	1 11/16	179	111	40	148	15	72	15	88	14	21.8	52	49.2	19	M14	UCFA209-28		UC209-28				
	1 3/4															UCFA209		UC209				
																UCFA210-30	FA210	UC210-30				
50	1 7/8	7 7/16	4 9/16	1 9/16	6 3/16	19/32	2 15/16	19/32	3 5/8	9/16	57/64	2 5/32	2.031	0.748	1/2	UCFA210-31		UC210-31	35.1	23.3	14.4	2.0
	1 15/16	189	116	40	157	15	75	15	92	14	22.5	55.1	51.6	19	M14	UCFA210		UC210				
	2															UCFA210-32		UC210-32				
																UCFA211-32	FA211	UC211-32				
55	2	8 1/2	5 1/4	1 23/32	7 1/4	5/8	3 3/8	5/8	4 1/32	25/32	1 1/64	2 5/16	2.189	0.874	1/2	UCFA211-34		UC211-34	43.4	29.4	14.4	3.6
	2 1/8	216	133	44	184	16	86	16	102	20	25.7	59.1	55.6	22.2	M14	UCFA211		UC211				
	2 3/16															UCFA211-35		UC211-35				

Remarks 1. In Part No. of unit and units with covers, fitting codes follow bore diameter numbers. (See Table 10.5 in P.51.)
2. Part No. of applicable grease fittings are shown below.
A-1/4-28UNF 201~210
A-R1/8 211

3. As for triple seal type product (from 201 to 205 are the double seal type products), accessory code L3 (or L2) follows Part No. of unit or bearing.
(Example of Part No. : UCFA206JL3, UC206L3)
4. For the dimensions and forms of applicable bearings, see the dimensional tables of ball bearing for unit.
5. Tapered bore (with adapter) type products are also available. (Example of Part No. : UKFA205J + H305X, UK205 + H305X)

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



Variations of tolerance of distance from mounting surface to center of spherical bore (ΔA_{2s}), variations of tolerance of center of distance between centers of bolt holes (ΔJ_s , ΔJ_{1s}), variations of tolerance of distance between both grooves (ΔH_{1s})

Unit: mm				
Housing No.	ΔA_{2s}	ΔJ_s	ΔJ_{1s}	ΔH_{1s}
FB204~FB210	±0.5			

Variations of tolerance of bolt hole diameter (ΔN_s)

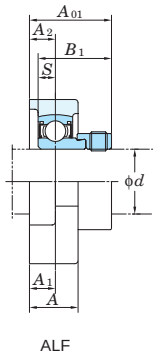
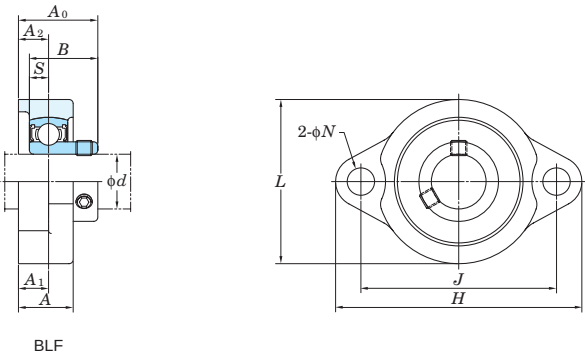
Unit: mm	
Housing No.	ΔN_s
FB204~FB210	±0.2

Shaft Dia. mm inch		Dimensions inch mm														Bolt Size inch mm	Unit No.	Housing No.		Bearing No.	Basic Load Ratings kN		Factor	Mass			
<i>d</i>		<i>H</i>	<i>L</i>	<i>A</i>	<i>J</i>	<i>J</i> ₁	<i>N</i>	<i>H</i> ₁	<i>H</i> ₂	<i>L</i> ₁	<i>A</i> ₁	<i>A</i> ₂	<i>A</i> ₀	<i>B</i>	<i>S</i>				<i>C</i> _r	<i>C</i> _{0r}	<i>f</i> ₀	kg					
12	1/2															5/16 M8	UCFB201	FB204		UC201	12.8	6.65	13.2	0.64			
15	5/8	4 11/32	2 7/16	15/16	1 17/64	1 11/16	3/8	1 21/32	2 1/16	2 1/16	1/2	17/32	1 1/4	1.220	0.500		UCFB201-8			UC201-8				0.62			
17	3/4	110	62	24	32	27	9.5	42	52	52	13	13.5	31.8	31	12.7		UCFB202			UC202				0.61			
20																	UCFB202-10			UC202-10				0.59			
																	UCFB203	UC203									
																	UCFB204-12	UC204-12									
																	UCFB204	UC204									
25	7/8	4 9/16	2 11/16	1 1/32	1 11/32	1 1/16	3/8	1 49/64	2 1/16	2 7/32	1/2	19/32	1 3/8	1.343	0.563	5/16 M8	UCFB205-14	FB205		UC205-14	14.0	7.85	13.9	0.68			
	15/16	116	68	26	34	27	9.5	45	52	56	13	15	34.8	34.1	14.3		UCFB205-15			UC205-15							
	1															UCFB205	UC205										
																	UCFB205-16			UC205-16							
30	1 1/8	5 1/8	3 1/16	1 5/32	1 37/64	1 9/64	3/8	1 31/32	2 5/32	2 9/16	1/2	43/64	1 17/32	1.500	0.626	5/16 M8	UCFB206-18	FB206		UC206-18	19.5	11.3	13.9	0.92			
	1 3/16	130	78	29	40	29	9.5	50	55	65	13	17	39.2	38.1	15.9		UCFB206			UC206							
	1 1/4																			UCFB206-19					UC206-19		
																				UCFB206-20					UC206-20		
35	1 1/4															5/16 M8	UCFB207-20	FB207		UC207-20	25.7	15.4	13.9	1.3			
	1 5/16	5 21/32	3 17/32	1 5/16	1 13/16	1 17/64	3/8	2 11/64	2 7/16	2 3/4	19/32	3/4	1 3/4	1.689	0.689		UCFB207-21			UC207-21							
	1 3/8	144	90	33	46	32	9.5	55	62	70	15	19	44.4	42.9	17.5		UCFB207-22			UC207-22							
																				UCFB207					UC207		
	1 7/16																UCFB207-23	UC207-23									
40	1 1/2	6 15/32	3 15/16	1 11/32	1 31/32	1 39/64	7/16	2 23/64	2 27/32	3 1/16	5/8	25/32	1 31/32	1.937	0.748	3/8 M10	UCFB208-24	FB208		UC208-24	29.1	17.8	14.0	1.8			
	1 9/16	164	100	34	50	41	11	60	72	78	16	20	50.2	49.2	19		UCFB208-25			UC208-25							
																	UCFB208			UC208							
45	1 5/8															3/8 M10	UCFB209-26	FB209		UC209-26	34.1	21.3	14.0	2.0			
	1 11/16	6 27/32	4 3/16	1 11/32	2 1/8	1 11/16	7/16	2 9/16	3	3 5/32	23/32	25/32	1 31/32	1.937	0.748		UCFB209-27			UC209-27							
	1 3/4	174	106	34	54	43	11	65	76	80	18	20	50.2	49.2	19		UCFB209-28			UC209-28							
																				UCFB209					UC209		
50	1 7/8															3/8 M10	UCFB210-30	FB210		UC210-30	35.1	23.3	14.4	2.3			
	1 15/16	7 1/4	4 13/32	1 3/8	2 9/32	1 13/16	7/16	2 43/64	3 7/32	3 3/8	23/32	25/32	2 1/16	2.031	0.748		UCFB210-31			UC210-31							
		184	112	35	58	46	11	68	82	86	18	20	52.6	51.6	19		UCFB210			UC210							
	2																			UCFB210-32					UC210-32		

Remarks 1. In Part No. of unit and units with covers, fitting codes follow bore diameter codes. (See Table 10.5 in P.51.)
2. Part No. of applicable grease fitting is A-1/4-28UNF.
3. As for the triple seal type product (from 201 to 205 are the double seal type products), accessory code L3 (or L2) follows Part No. of unit or bearing. (Example of Part No. : UCFB206JL3, UC206L3)

4. For the dimensions and forms of applicable bearings, see the dimensional tables of ball bearing for unit.
5. Tapered bore (with adapter) type products are also available. (Example of Part No. : UKFB205J + H305X, UK205 + H305X)

BLF
Cylindrical bore
(with set screw locking)
ALF
Cylindrical bore
(with eccentric locking collar)
d 12 ~ 35 mm



Shaft Dia. mm inch		Dimensions inch mm												Bolt Size inch mm	Unit No.	Bearing No.		Unit No.	Bearing No.	Housing No.	Basic Load Ratings		Factor	Mass		
										BLF		ALF									kN			f ₀	kg	
		H	L	A	J	N	A ₁	A ₂	S	A ₀	B	A ₀₁	B ₁								C _r	C _{0r}			BLF	ALF
12	1/2 5/8														BLF201	SB201		ALF201	SA201	LF203	9.55	4.80	13.2	0.25	0.28	
15		3 3/16	2 1/16	23/32	2 1/2	5/16	3/8	3/8	0.236	1	0.866	1 1/4	1.122		BLF201-8	SB201-8		ALF201-8	SA201-8							
17		81	52	18	63.5	8	9.5	9.5	6	25.5	22	32	28.5	M6	BLF202	SB202		ALF202	SA202							
															BLF202-10	SB202-10		ALF202-10	SA202-10							
															BLF203	SB203		ALF203	SA203							
20	3/4	3 17/32	2 3/8	25/32	2 13/16	25/64	7/16	7/16	0.276	1 5/32	0.984	1 5/16	1.161	5/16	BLF204-12	SB204-12		ALF204-12	SA204-12	LF204	12.8	6.65	13.2	0.33	0.33	
		90	60	20	71.5	10	11	11	7	29	25	33.5	29.5	M8	BLF204	SB204		ALF204	SA204							
25	7/8														BLF205-14	SB205-14		ALF205-14	SA205-14	LF205	14.0	7.85	13.9	0.38	0.42	
	15/16	3 3/4	2 17/32	25/32	2 63/64	25/64	7/16	7/16	0.295	1 3/16	1.063	1 11/32	1.201	5/16	BLF205-15	SB205-15		ALF205-15	SA205-15							
	1	95	64	20	76	10	11	11	7.5	30.5	27	34	30.5	M8	BLF205	SB205		ALF205	SA205							
															BLF205-16	SB205-16		ALF205-16	SA205-16							
30	1 1/8														BLF206-18	SB206-18		ALF206-18	SA206-18	LF206	19.5	11.3	13.9	0.57	0.60	
	1 3/16	4 7/16	3	7/8	3 9/16	15/32	15/32	15/32	0.315	1 11/32	1.181	1 1/2	1.335	3/8	BLF206	SB206		ALF206	SA206							
	1 1/4	113	76	22.5	90.5	12	12	12	8	34	30	37.9	33.9	M10	BLF206-19	SB206-19		ALF206-19	SA206-19							
															BLF206-20	SB206-20		ALF206-20	SA206-20							
35	1 1/4														BLF207-20	SB207-20		ALF207-20	SA207-20	LF207	25.7	15.4	13.9	0.77	0.85	
	1 5/16	4 13/16	3 1/2	15/16	3 15/16	15/32	1/2	33/64	0.335	1 7/16	1.260	1 5/8	1.437	3/8	BLF207-22	SB207-22		ALF207-21	SA207-21							
	1 3/8	122	89	24	100	12	13	13	8.5	36.5	32	41	36.5	M10	BLF207	SB207		ALF207-22	SA207-22							
	1 7/16														BLF207-23	SB207-23		ALF207-23	SA207-23							

Remarks 1. In Part No. of unit and units with covers, fitting codes follow bore diameter codes. (See Table 10.5 in P.51.)
2. Allowable load to housing in radial direction is approximately half of basic load rating of bearing, *C*_r (when safety factor is 4).
3. For the dimensions and forms of applicable bearings, see the dimensional tables of ball bearing for unit.

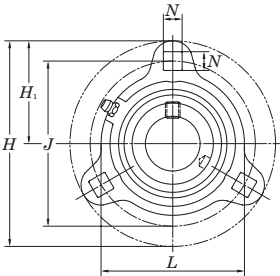
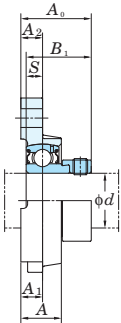
Variations of tolerance of distance from mounting surface to center of spherical bore (ΔA_{2s}) and variations of tolerance of distance between centers of bolt holes (ΔJ_s)

Housing No.	ΔA_{2s}	ΔJ_s
LF203-LF207	±0.5	±0.7

Variations of tolerance of bolt hole diameter (ΔN_s)

Housing No.	ΔN_s
LF203-LF207	±0.2

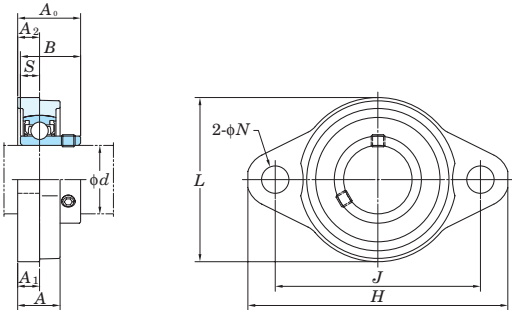
SATFD-FP9
Cylindrical bore (with set screws)
d 12 ~ 35 mm



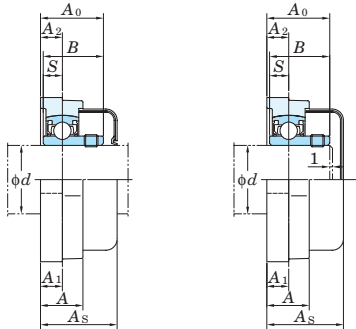
Shaft Dia. mm inch		Dimensions inch mm											Bolt Size inch mm	Unit No.	Housing No.		Bearing No.	Basic Load Ratings kN		Factor <i>f</i> ₀	Mass kg
<i>d</i>		<i>H</i>	<i>L</i>	<i>A</i>	<i>J</i>	<i>N</i>	<i>H</i> ₁	<i>A</i> ₀	<i>A</i> ₁	<i>A</i> ₂	<i>B</i> ₁	<i>S</i>						<i>C</i> _r	<i>C</i> _{0r}		
12	1/2													SATFD201FP9 SATFD201-8FP9 SATFD202FP9 SATFD202-10FP9 SATFD203FP9	TFD203		SA201FP9 SA201-8FP9 SA202FP9 SA202-10FP9 SA203FP9	9.55	4.80	13.2	0.26
15	5/8	3 3/16	2 3/32	11/16	2 1/2	9/32	1 19/32	1 1/4	3/8	3/8	1.126	0.256	1/4								
17		81	53.2	17.5	63.5	7.1	40.5	31.6	9.5	9.5	28.6	6.5									
20	3/4	3 9/16	2 3/8	25/32	2 13/16	11/32	1 25/32	1 11/32	27/64	27/64	1.220	0.295	5/16	SATFD204-12FP9 SATFD204FP9	TFD204		SA204-12FP9 SA204FP9	12.8	6.65	13.2	0.34
25	7/8													SATFD205-14FP9 SATFD205-15FP9 SATFD205FP9 SATFD205-16FP9 SATFD206-18FP9	TFD205		SA205-14FP9 SA205-15FP9 SA205FP9 SA205-16FP9 SA206-18FP9	14.0	7.85	13.9	0.39
25	15/16	3 3/4	2 5/8	25/32	3	11/32	1 7/8	1 11/32	27/64	27/64	1.220	0.295	5/16								
	1	95.2	66.7	19.8	76.2	8.7	47.6	34.2	10.7	10.7	31	7.5									
30	1 1/8	4 7/16	3 3/32	7/8	3 9/16	13/32	2 7/32	1 17/32	15/32	15/32	1.406	0.354	3/8	SATFD206FP9 SATFD206-19FP9 SATFD206-20FP9	TFD206		SA206FP9 SA206-19FP9 SA206-20FP9	19.5	11.3	13.9	0.61
	1 3/16	112.7	78.6	22.2	90.5	10.3	56.4	38.6	11.9	11.9	35.7	9									
	1 1/4																				
35	1 1/4	4 13/16	3 1/2	15/16	3 15/16	13/32	2 13/32	1 21/32	1/2	1/2	1.531	0.374	3/8	SATFD207-20FP9 SATFD207-21FP9 SATFD207-22FP9 SATFD207FP9 SATFD207-23FP9	TFD207		SA207-20FP9 SA207-21FP9 SA207-22FP9 SA207FP9 SA207-23FP9	25.7	15.4	13.9	0.82
	1 5/16	122.2	88.9	23.8	100	10.3	61.1	42.1	12.7	12.7	38.9	9.5									
	1 3/8																				
	1 7/16																				

Remarks 1. In Part No. of unit and units with covers, fitting codes follow bore diameter codes. (See Table 10.5 in P.51.)
2. Part No. of applicable grease fitting is A-1/4-28UNF.
3. For the dimensions and forms of applicable bearings, see the dimensional tables of ball bearing for unit.

UFL
Cylindrical bore (with set screws)
d 8 ~ 30 mm



With Through Type Cover With One Side Sealed Cover



Variations of tolerance of distance from mounting surface to center of spherical bore (ΔA_{2s}) and variations of tolerance of distance between centers of bolt holes (ΔJ_s)

Housing No.	ΔA_{2s}	ΔJ_s
FL08	± 0.5	± 0.3
FL000-FL006		

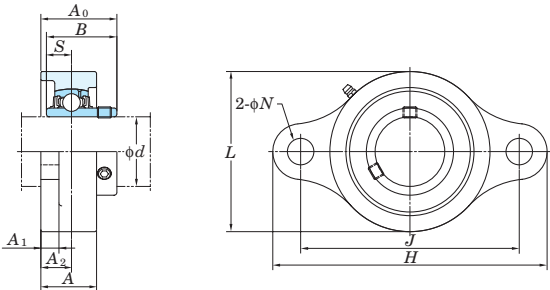
Variations of tolerance of bolt hole diameter (ΔN_s)

Housing No.	ΔN_s
FL08	± 0.2
FL000-FL006	

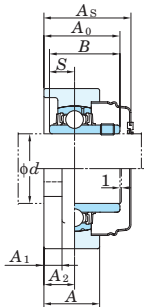
Shaft Dia. mm	Dimensions inch mm										Bolt Size inch mm	Standard				Mass kg	Basic Load Ratings kN		Factor <i>f</i> ₀	With Rubber Coated Cover				Mass kg
	<i>d</i>	<i>H</i>	<i>L</i>	<i>A</i>	<i>J</i>	<i>N</i>	<i>A</i> ₁	<i>A</i> ₂	<i>A</i> ₀	<i>B</i>		<i>S</i>	Unit No.	Housing No.	Bearing No.		<i>C</i> _r	<i>C</i> _{0r}		Unit No.		Dimension mm inch		
																				Open Type	Closed Type	<i>A</i> _s		
8	1 7/8 48	1 1/16 27	11/32 8.5	1 29/64 37	3/16 4.8	5/32 4	5/32 4	1/2 12.5	0.472 12	0.1378 3.5	No.8 M4	UFL08	FL08	SU08	0.030	3.27	1.37	12.4	—	—	—	—		
10	2 3/8 60	1 13/32 36	15/32 12	1 49/64 45	9/32 7	1/4 6	15/64 6	5/8 16	0.591 15	0.197 5	1/4 M6	UFL000	FL000	SU000	0.050	4.55	1.95	12.3	UFL000C	UFL000D	20.5	13/16 0.05		
12	2 15/32 63	1 1/2 38	15/32 12	1 57/64 48	9/32 7	1/4 6	15/64 6	5/8 16	0.591 15	0.197 5	1/4 M6	UFL001	FL001	SU001	0.065	5.10	2.40	13.2	UFL001C	UFL001D	20.5	13/16 0.07		
15	2 5/8 67	1 21/32 42	1/2 13	2 3/32 53	9/32 7	1/4 6.5	1/4 6.5	11/16 17.5	0.650 16.5	0.217 5.5	1/4 M6	UFL002	FL002	SU002	0.085	5.60	2.85	13.9	UFL002C	UFL002D	22	7/8 0.09		
17	2 25/32 71	1 13/16 46	9/16 14	2 13/64 56	9/32 7	9/32 7	9/32 7	23/32 18.5	0.689 17.5	0.236 6	1/4 M6	UFL003	FL003	SU003	0.11	6.00	3.25	14.4	UFL003C	UFL003D	23.5	15/16 0.11		
20	3 17/32 90	2 5/32 55	5/8 16	2 51/64 71	13/32 10	5/16 8	5/16 8	7/8 22	0.827 21	0.276 7	5/16 M8	UFL004	FL004	SU004	0.18	9.40	5.05	13.9	UFL004C	UFL004D	27	1 1/16 0.18		
25	3 3/4 95	2 3/8 60	5/8 16	2 61/64 75	13/32 10	5/16 8	5/16 8	29/32 23	0.866 22	0.276 7	5/16 M8	UFL005	FL005	SU005	0.23	10.1	5.85	14.5	UFL005C	UFL005D	28	1 3/32 0.23		
30	4 13/32 112	2 3/4 70	23/32 18	3 11/32 85	1/2 13	11/32 9	23/64 9	1 1/32 26	0.965 24.5	0.295 7.5	3/8 M10	UFL006	FL006	SU006	0.31	13.2	8.25	14.7	UFL006C	UFL006D	31	1 7/32 0.31		

Remarks 1. In Part No. of unit and units with covers, fitting codes follow bore diameter codes. (See Table 10.5 in P.51.)
2. For the dimensions and forms of applicable bearings, see the dimensional tables of ball bearing for unit.

UCSFL-H1S6
Cylindrical bore (with set screws)
d 12 ~ 50 mm



With Pressed Stainless Steel Cover



Variations of tolerance of distance from mounting surface to center of spherical bore (ΔA_{2s}) and variations of tolerance of distance between centers of bolt holes (ΔJ_s)

Unit: mm		
Housing No.	ΔA_{2s}	ΔJ_s
SFL203H1~SFL210H1	±0.5	±0.3

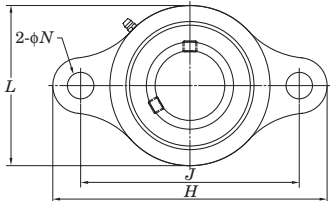
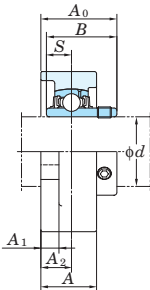
Variations of tolerance of bolt hole diameter (ΔN_s)

Unit: mm	
Housing No.	ΔN_s
SFL203H1~SFL210H1	±0.2

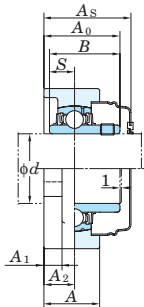
Shaft Dia. mm inch		Dimensions inch mm										Bolt Size inch mm	Standard Unit No.	Housing No.		Bearing No.	Mass kg	Basic Load Ratings kN		Factor f_0	With Pressed Stainless Steel Cover Unit No.		Dimension mm inch		Mass kg
d		H	L	A	J	N	A_1	A_2	A_0	B	S							C_r	C_{0r}		Open Type	Closed Type	A_s		
12	1/2												UCSFL201XSH1S6	SFL203H1		UC201XS6	0.33	8.15	3.85	13.2	—	—	—	—	—
15	5/8	1 27/32	2 1/16	1 15/16	3	15/32	13/32	9/16	2 3/16	1.079	0.453	3/8	UCSFL201-8XSH1S6			UC201-8XS6					—	—	—	—	—
		98	52	24	76.5	12	10	14	29.9	27.4	11.5	M10	UCSFL202XSH1S6			UC202XS6					—	—	—	—	—
17													UCSFL202-10XSH1S6			UC202-10XS6					—	—	—	—	—
													UCSFL203XSH1S6			UC203XS6					—	—	—	—	—
20	3/4	4 7/16	2 3/8	1 1/32	3 35/64	15/32	13/32	13/32	1 5/16	1.220	0.500	3/8	UCSFL204-12H1S6	SFL204H1		UC204-12S6	0.47	10.9	5.35	13.2	—	—	—	—	—
		113	60	26	90	12	10	15	33.3	31	12.7	M10	UCSFL204H1S6			UC204S6					UCSFL204H1CS6	UCSFL204H1DS6	38	1 1/2	0.47
25	7/8	5 1/8	2 11/16	1 3/32	3 57/64	5/8	13/32	5/8	1 13/32	1.343	0.563	1/2	UCSFL205-14H1S6	SFL205H1		UC205-14S6	0.61	11.9	6.30	13.9	—	—	—	—	—
	15/16												UCSFL205-15H1S6			UC205-15S6					—	—	—	—	—
		130	68	27.5	99	16	10	16	35.8	34.1	14.3	M14	UCSFL205H1S6			UC205S6					UCSFL205H1CS6	UCSFL205H1DS6	40	1 9/16	0.61
	1												UCSFL205-16H1S6			UC205-16S6					—	—	—	—	—
	1 1/8												UCSFL206-18H1S6			UC206-18S6					—	—	—	—	—
30	1 3/16	5 13/16	3 5/32	1 7/32	4 19/32	5/8	13/32	45/64	1 19/32	1.500	0.626	1/2	UCSFL206H1S6	SFL206H1		UC206S6	0.9	16.5	9.05	13.9	—	—	—	—	—
	1 1/4												UCSFL206-19H1S6			UC206-19S6					—	—	—	—	—
		148	80	31	117	16	10	18	40.2	38.1	15.9	M14	UCSFL206-20H1S6			UC206-20S6					UCSFL206H1CS6	UCSFL206H1DS6	45	1 15/32	0.9
													UCSFL207-20H1S6			UC207-20S6					—	—	—	—	—
													UCSFL207-21H1S6			UC207-21S6					—	—	—	—	—
35	1 5/16	6 11/32	3 11/32	1 11/32	5 1/8	5/8	7/16	3/4	1 3/4	1.689	0.689	1/2	UCSFL207-22H1S6	SFL207H1		UC207-22S6	1.1	21.8	12.3	13.9	—	—	—	—	—
	1 3/8												UCSFL207H1S6			UC207S6					—	—	—	—	—
	1 7/16	161	85	34	130	16	11	19	44.4	42.9	17.5	M14	UCSFL207-23H1S6			UC207-23S6					UCSFL207H1CS6	UCSFL207H1DS6	49	1 15/16	1.1
													UCSFL208-24H1S6			UC208-24S6					—	—	—	—	—
													UCSFL208-25H1S6			UC208-25S6					—	—	—	—	—
40	1 1/2	6 7/8	3 11/16	1 13/32	5 43/64	5/8	15/32	53/64	2 1/32	1.937	0.748	1/2	UCSFL208H1S6	SFL208H1		UC208S6	1.4	24.8	14.3	14.0	—	—	—	—	—
	1 9/16												UCSFL209-26H1S6			UC209-26S6					UCSFL208H1CS6	UCSFL208H1DS6	56	2 7/32	1.4
		175	94	36	144	16	12	21	51.2	49.2	19	M14	UCSFL209-27H1S6			UC209-27S6					—	—	—	—	—
													UCSFL209-28H1S6			UC209-28S6					—	—	—	—	—
													UCSFL209H1S6			UC209S6					UCSFL209H1CS6	UCSFL209H1DS6	57	2 7/32	1.6
45	1 5/8	7 13/32	3 15/16	1 1/2	5 53/64	3/4	1/2	55/64	2 1/16	1.937	0.748	5/8	UCSFL210-30H1S6	SFL210H1		UC210-30S6	1.9	29.8	18.6	14.4	—	—	—	—	—
	1 11/16												UCSFL210-31H1S6			UC210-31S6					—	—	—	—	—
	1 3/4												UCSFL210H1S6			UC210S6					—	—	—	—	—
		197	106	40	157	19	13	22	54.6	51.6	19	M16	UCSFL210-32H1S6			UC210-32S6					UCSFL210H1CS6	UCSFL210H1DS6	59	2 5/16	1.9
	2																				—	—	—	—	—

Remarks 1. In Part No. of unit and units with covers, fitting codes follow bore diameter codes. (See Table 10.5 in P.51.)
2. Part No. of applicable grease fitting is A-1/4-28UNFN12.
3. For the dimensions and forms of applicable bearings, see the dimensional tables of ball bearing for unit.

UCSFL-EH1S6
Cylindrical bore (with set screws)
d 12 ~ 50 mm



With Pressed Stainless Steel Cover



Variations of tolerance of distance from mounting surface to center of spherical bore (ΔA_{2s}) and variations of tolerance of distance between centers of bolt holes (ΔJ_s)

Unit: mm		
Housing No.	ΔA_{2s}	ΔJ_s
SFL203EH1~SFL210EH1	±0.5	±0.3

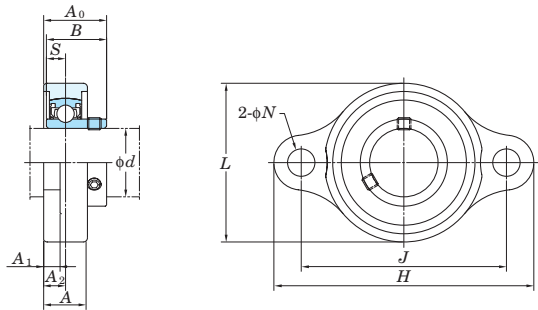
Variations of tolerance of bolt hole diameter (ΔN_s)

Unit: mm	
Housing No.	ΔN_s
SFL203EH1~SFL210EH1	±0.2

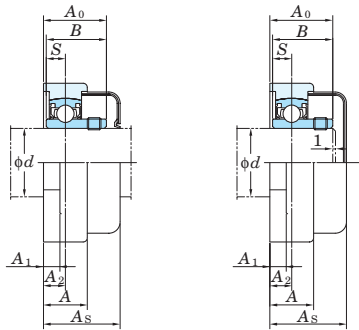
Shaft Dia. mm inch		Dimensions inch mm										Bolt Size inch mm	Standard Unit No.	Housing No.		Bearing No.	Mass kg	Basic Load Ratings kN		Factor f_0	With Pressed Stainless Steel Cover Unit No.		Dimension mm inch		Mass kg
d		H	L	A	J	N	A_1	A_2	A_0	B	S							C_r	C_{0r}		Open Type	Closed Type	A_s		
12	1/2												UCSFL201XESH1S6	SFL203EH1		UC201XS6	0.33	8.15	3.85	13.2	—	—	—	—	—
15	5/8	1 27/32	2 1/16	1 15/16	3	25/64	13/32	9/16	2 3/16	1.079	0.453	5/16	UCSFL201-8XESH1S6			UC201-8XS6					—	—	—	—	—
		98	52	24	76.2	10	10	14	29.9	27.4	11.5		UCSFL202XESH1S6			UC202XS6					—	—	—	—	—
17													UCSFL202-10XESH1S6			UC202-10XS6					—	—	—	—	—
													UCSFL203XESH1S6			UC203XS6					—	—	—	—	—
20	3/4	4 7/16	2 3/8	1 1/32	3 17/32	25/64	13/32	13/32	1 5/16	1.220	0.500	5/16	UCSFL204-12EH1S6	SFL204EH1		UC204-12S6	0.47	10.9	5.35	13.2	—	—	—	—	—
		113	60	26	89.7	10	10	15	33.3	31	12.7		UCSFL204EH1S6			UC204S6					UCSFL204EH1CS6	UCSFL204EH1DS6	38	1 1/2	0.47
25	7/8	5 1/8	2 11/16	1 3/32	3 57/64	15/32	13/32	5/8	1 13/32	1.343	0.563	3/8	UCSFL205-14EH1S6	SFL205EH1		UC205-14S6	0.61	11.9	6.30	13.9	—	—	—	—	—
	15/16												UCSFL205-15EH1S6			UC205-15S6					—	—	—	—	—
		130	68	27.5	98.8	12	10	16	35.8	34.1	14.3		UCSFL205EH1S6			UC205S6					UCSFL205EH1CS6	UCSFL205EH1DS6	40	1 9/16	0.61
	1												UCSFL205-16EH1S6	SFL206EH1		UC205-16S6	0.9	16.5	9.05	13.9	—	—	—	—	—
30	1 1/8	5 13/16	3 5/32	1 7/32	4 19/32	15/32	13/32	45/64	1 19/32	1.500	0.626	3/8	UCSFL206-18EH1S6			UC206-18S6					—	—	—	—	—
	1 3/16												UCSFL206EH1S6			UC206S6					UCSFL206EH1CS6	UCSFL206EH1DS6	45	1 15/32	0.9
	1 1/4	148	80	31	116.7	12	10	18	40.2	38.1	15.9		UCSFL206-19EH1S6			UC206-19S6					—	—	—	—	—
													UCSFL206-20EH1S6			UC206-20S6					—	—	—	—	—
35	1 1/4	6 11/32	3 11/32	1 11/32	5 1/8	33/64	7/16	3/4	1 3/4	1.689	0.689	7/16	UCSFL207-20EH1S6	SFL207EH1		UC207-20S6	1.1	21.8	12.3	13.9	—	—	—	—	—
	1 5/16												UCSFL207-21EH1S6			UC207-21S6					—	—	—	—	—
	1 3/8	161	85	34	130.2	13	11	19	44.4	42.9	17.5		UCSFL207-22EH1S6			UC207-22S6					—	—	—	—	—
													UCSFL207EH1S6			UC207S6					UCSFL207EH1CS6	UCSFL207EH1DS6	49	1 15/16	1.1
	1 7/16												UCSFL207-23EH1S6			UC207-23S6					—	—	—	—	—
40	1 1/2	6 7/8	3 11/16	1 13/32	5 21/32	33/64	15/32	53/64	2 1/32	1.937	0.748	7/16	UCSFL208-24EH1S6	SFL208EH1		UC208-24S6	1.4	24.8	14.3	14.0	—	—	—	—	—
	1 9/16												UCSFL208-25EH1S6			UC208-25S6					—	—	—	—	—
		175	94	36	143.7	13	12	21	51.2	49.2	19		UCSFL208EH1S6			UC208S6					UCSFL208EH1CS6	UCSFL208EH1DS6	56	2 7/32	1.4
45	1 5/8	7 13/32	3 15/16	1 1/2	5 27/32	19/32	1/2	55/64	2 1/16	1.937	0.748	1/2	UCSFL209-26EH1S6	SFL209EH1		UC209-26S6	1.6	27.8	16.2	14.0	—	—	—	—	—
	1 11/16												UCSFL209-27EH1S6			UC209-27S6					—	—	—	—	—
	1 3/4	188	100	38	148.4	15	13	22	52.2	49.2	19		UCSFL209-28EH1S6			UC209-28S6					—	—	—	—	—
													UCSFL209EH1S6			UC209S6					UCSFL209EH1CS6	UCSFL209EH1DS6	57	2 1/4	1.6
																					—	—	—	—	—
50	1 7/8	7 3/4	4 3/16	1 9/16	6 3/16	19/32	1/2	55/64	2 5/32	2.031	0.748	1/2	UCSFL210-30EH1S6	SFL210EH1		UC210-30S6	1.9	29.8	18.6	14.4	—	—	—	—	—
	1 15/16												UCSFL210-31EH1S6			UC210-31S6					—	—	—	—	—
		197	106	40	157	15	13	22	54.6	51.6	19		UCSFL210EH1S6			UC210S6					UCSFL210EH1CS6	UCSFL210EH1DS6	59	2 5/16	1.9
	2												UCSFL210-32EH1S6			UC210-32S6					—	—	—	—	—

Remarks 1. In Part No. of unit and units with covers, fitting codes follow bore diameter codes. (See Table 10.5 in P.51.)
2. Part No. of applicable grease fitting is A-1/4-28UNFN12.
3. For the dimensions and forms of applicable bearings, see the dimensional tables of ball bearing for unit.

USFL-S6
Cylindrical bore (with set screws)
d 10 ~ 30 mm



With Through Type Cover With One Side Sealed Cover



Variations of tolerance of distance from mounting surface to center of spherical bore (ΔA_{2s}) and variations of tolerance of distance between centers of bolt holes (ΔJ_s)

Unit: mm		
Housing No.	ΔA_{2s}	ΔJ_s
SFL000-SFL006	± 0.5	± 0.3

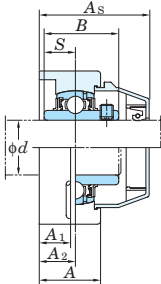
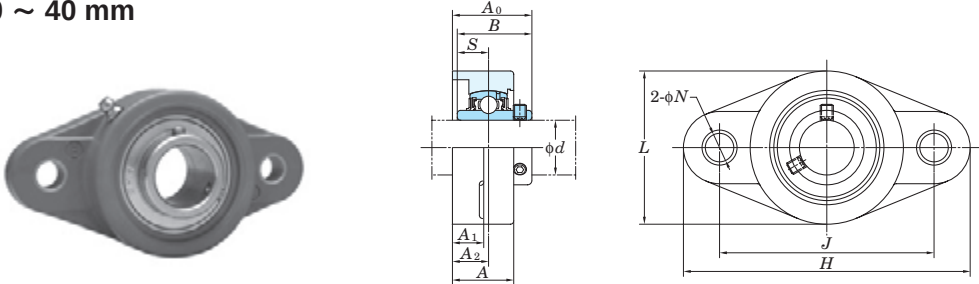
Variations of tolerance of bolt hole diameter (ΔN_s)

Unit: mm	
Housing No.	ΔN_s
SFL000-SFL006	± 0.2

Shaft Dia. mm	Dimensions										Bolt Size	Standard				Mass	Basic		Factor	With Rubber Coated Cover				Mass
	inch											Unit No.	Housing No.	Bearing No.	Load Ratings kN		Open Type	Closed Type		Dimension				
	mm																			mm	inch			
<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>	inch mm				kg	<i>C</i> _r	<i>C</i> _{0r}	<i>f</i> ₀			<i>A</i> _s			
10	2 3/8 60	1 11/32 34	15/32 12	1 49/64 45	9/32 7	3/16 5	15/64 6	5/8 16	0.591 15	0.197 5	1/4 M6	USFL000S6	SFL000	SU000S6	0.076	3.9	1.55	12.3	USFL000CS6	USFL000DS6	20.5	13/16	0.08	
12	2 15/32 63	1 13/32 36	15/32 12	1 57/64 48	9/32 7	3/16 5	15/64 6	5/8 16	0.591 15	0.197 5	1/4 M6	USFL001S6	SFL001	SU001S6	0.080	4.3	1.9	13.2	USFL001CS6	USFL001DS6	20.5	13/16	0.08	
15	2 5/8 67	1 5/8 41	1/2 13	2 3/32 53	9/32 7	1/4 6	1/4 6.5	11/16 17.5	0.650 16.5	0.217 5.5	1/4 M6	USFL002S6	SFL002	SU002S6	0.1	4.7	2.25	13.9	USFL002CS6	USFL002DS6	22	7/8	0.1	
17	2 25/32 71	1 23/32 44	9/16 14	2 13/64 56	9/32 7	1/4 6	9/32 7	23/32 18.5	0.689 17.5	0.236 6	1/4 M6	USFL003S6	SFL003	SU003S6	0.13	5.1	2.6	14.4	USFL003CS6	USFL003DS6	23.5	15/16	0.13	
20	3 19/32 91	2 3/32 53	5/8 16	2 51/64 71	13/32 10	1/4 6	5/16 8	7/8 22	0.827 21	0.276 7	5/16 M8	USFL004S6	SFL004	SU004S6	0.21	7.9	4	13.9	USFL004CS6	USFL004DS6	27	1 1/16	0.21	
25	3 3/4 95	2 9/32 58	5/8 16	2 61/64 75	13/32 10	1/4 6	5/16 8	29/32 23	0.866 22	0.276 7	5/16 M8	USFL005S6	SFL005	SU005S6	0.23	8.5	4.65	14.5	USFL005CS6	USFL005DS6	28	1 3/32	0.23	
30	4 11/32 110	2 19/32 66	23/32 18	3 11/32 85	1/2 13	9/32 7	23/64 9	1 1/32 26	0.965 24.5	0.295 7.5	3/8 M10	USFL006S6	SFL006	SU006S6	0.33	11.2	6.6	14.7	USFL006CS6	USFL006DS6	31	1 7/32	0.33	

Remarks 1. In Part No. of unit and units with covers, fitting codes follow bore diameter codes. (See Table 10.5 in P.51.)
2. For the dimensions and forms of applicable bearings, see the dimensional tables of ball bearing for unit.

UCVFL-S6
Cylindrical bore (with set screws)
d 20 ~ 40 mm



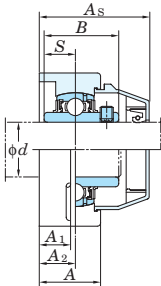
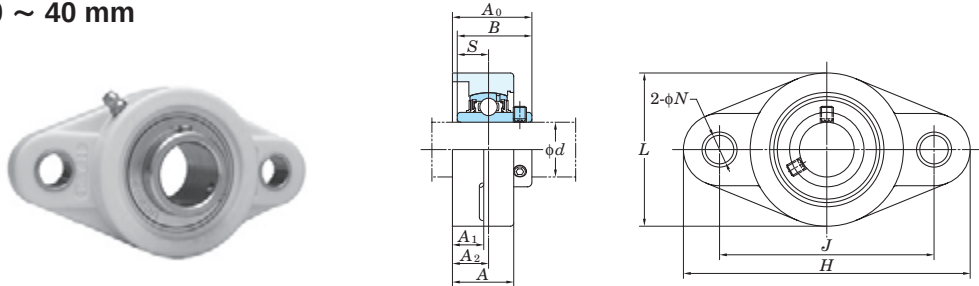
Variations of tolerance of distance from mounting surface to center of spherical bore (ΔA_{2s}) and tolerance of position of bolt hole (X)

Housing No.	ΔA_{2s}	Unit: mm X
VFL204~VFL208	±0.5	0.7

Shaft Dia. mm inch		Dimensions inch mm										Bolt Size inch mm	Standard				Mass kg	Basic Load Ratings kN		Factor f ₀	With Plastic Cover			
													Unit No.	Housing No.	Bearing No.			Open Type	Unit No. Closed Type		Dimension mm inch A _s	Mass kg		
d		H	L	A	J	N	A ₁	A ₂	A ₀	B	S					C _r	C _{0r}							
20	3/4	4 7/16	2 9/16	1 1/32	3 35/64	27/64	17/32	19/32	1 5/16	1.220	0.500	3/8	UCVFL204-12S6	VFL204	UC204-12S6	0.25	10.9	5.35	13.2	UCVFL204-12CS6	UCVFL204-12DS6	46.5	1 27/32	0.26
		113	65	26.5	90	11	13.4	15	33.3	31	12.7	M8	UCVFL204S6		UC204S6					UCVFL204CS6	UCVFL204DS6			
25	7/8	5 5/32	2 3/4	1 3/32	3 57/64	27/64	17/32	5/8	1 13/32	1.343	0.563	3/8	UCVFL205-14S6	VFL205	UC205-14S6	0.35	11.9	6.3	13.9	UCVFL205-14CS6	UCVFL205-14DS6	50.2	1 31/32	0.36
	UCVFL205-15S6												UC205-15S6		UCVFL205-15CS6					UCVFL205-15DS6				
	UCVFL205S6												UC205S6		UCVFL205CS6					UCVFL205DS6				
	UCVFL205-16S6												UC205-16S6		UCVFL205-16CS6					UCVFL205-16DS6				
30	1 1/8	5 13/16	3 5/32	1 3/16	4 39/64	27/64	9/16	45/64	1 19/32	1.500	0.626	3/8	UCVFL206-18S6	VFL206	UC206-18S6	0.49	16.5	9.05	13.9	UCVFL206-18CS6	UCVFL206-18DS6	57.5	1 1/4	0.50
	UCVFL206S6												UC206S6		UCVFL206CS6					UCVFL206DS6				
	UCVFL206-19S6												UC206-19S6		UCVFL206-19CS6					UCVFL206-19DS6				
	UCVFL206-20S6												UC206-20S6		UCVFL206-20CS6					UCVFL206-20DS6				
35	1 1/4	6 15/32	3 17/32	1 1/4	5 1/8	33/64	5/8	3/4	1 3/4	1.689	0.689	7/16	UCVFL207-20S6	VFL207	UC207-20S6	0.73	21.8	12.3	13.9	UCVFL207-20CS6	UCVFL207-20DS6	61.2	2 13/32	0.75
	UCVFL207-21S6												UC207-21S6		UCVFL207-21CS6					UCVFL207-21DS6				
	UCVFL207-22S6												UC207-22S6		UCVFL207-22CS6					UCVFL207-22DS6				
	UCVFL207S6												UC207S6		UCVFL207CS6					UCVFL207DS6				
40	1 7/16	6 15/16	3 15/16	1 11/32	5 43/64	35/64	21/32	53/64	2 1/32	1.937	0.748	1/2	UCVFL207-23S6	VFL208	UC207-23S6	0.92	24.8	13.3	14.0	UCVFL207-23CS6	UCVFL207-23DS6	69.2	2 23/32	0.95
	UCVFL208-24S6												UC208-24S6		UCVFL208-24CS6					UCVFL208-24DS6				
	UCVFL208-25S6												UC208-25S6		UCVFL208-25CS6					UCVFL208-25DS6				
	UCVFL208S6												UC208S6		UCVFL208CS6					UCVFL208DS6				

Remarks 1. In Part No. of unit and units with covers, fitting codes follow bore diameter numbers. (See Table 10.5 in P.51.)
2. Part No. of the applicable grease fitting is A-1/4-28UNFN12.
3. For the dimensions and forms of applicable bearings, see the dimensional tables of ball bearing for unit.

UCVFL-ES7
Cylindrical bore (with set screws)
d 20 ~ 40 mm



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

Housing No.	Unit: mm	
	ΔA_{2s}	X
VFL204E-VFL208E	±0.5	0.7

Shaft Dia. mm inch		Dimensions inch mm										Bolt Size inch mm	Standard				Mass	Basic		Factor	With Plastic Cover			
		Unit No.	Housing No.	Bearing No.		Load Ratings kN C _r C _{0r}	Open Type	Closed Type	Dimension mm inch		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>	<i>A</i> _s					
20	3/4	4 7/16	2 9/16	1 1/32	3 35/64	7/16	17/32	19/32	1 5/16	1.220	0.500	3/8	UCVFL204-12ES7	VFL204E	UC204-12S7	0.25	12.8	6.65	13.2	UCVFL204-12ECS7	UCVFL204-12EDS7	46.5	1 27/32	0.26
		113	65	26.5	90	11	13.4	15	33.3	31	12.7	M8	UCVFL204ES7		UC204S7					UCVFL204ECS7	UCVFL204EDS7			
25	7/8	5 5/32	2 3/4	1 3/32	3 57/64	33/64	17/32	5/8	1 13/32	1.343	0.563	7/16	UCVFL205-14ES7	VFL205E	UC205-14S7	0.35	14.0	7.85	13.9	UCVFL205-14ECS7	UCVFL205-14EDS7	50.2	1 31/32	0.36
	15/16	131	70	27.5	99	13	13.8	16	35.8	34.1	14.3	M10	UCVFL205-15ES7		UC205-15S7					UCVFL205-15ECS7	UCVFL205-15EDS7			
													UCVFL205ES7		UC205S7					UCVFL205ECS7	UCVFL205EDS7			
													UCVFL205-16ES7		UC205-16S7					UCVFL205-16ECS7	UCVFL205-16EDS7			
30	1 1/8	5 13/16	3 5/32	1 3/16	4 39/64	33/64	9/16	45/64	1 19/32	1.500	0.626	7/16	UCVFL206-18ES7	VFL206E	UC206-18S7	0.49	19.5	11.3	13.9	UCVFL206-18ECS7	UCVFL206-18EDS7	57.5	1 1/4	0.50
	1 3/16	148	80	30.5	117	13	14.3	18	40.2	38.1	15.9	M10	UCVFL206ES7		UC206S7					UCVFL206ECS7	UCVFL206EDS7			
													UCVFL206-19ES7		UC206-19S7					UCVFL206-19ECS7	UCVFL206-19EDS7			
	1 1/4												UCVFL206-20ES7		UC206-20S7					UCVFL206-20ECS7	UCVFL206-20EDS7			
35	1 1/4	6 15/32	3 17/32	1 1/4	5 1/8	35/64	5/8	3/4	1 3/4	1.689	0.689	1/2	UCVFL207-20ES7	VFL207E	UC207-20S7	0.73	25.7	15.4	13.9	UCVFL207-20ECS7	UCVFL207-20EDS7	61.2	2 13/32	0.75
	1 5/16	164	90	32	130	14	15.5	19	44.4	42.9	17.5	M12	UCVFL207-21ES7		UC207-21S7					UCVFL207-21ECS7	UCVFL207-21EDS7			
													UCVFL207-22ES7		UC207-22S7					UCVFL207-22ECS7	UCVFL207-22EDS7			
	1 3/8												UCVFL207ES7		UC207S7					UCVFL207ECS7	UCVFL207EDS7			
													UCVFL207-23ES7		UC207-23S7					UCVFL207-23ECS7	UCVFL207-23EDS7			
	1 7/16																							
40	1 1/2	6 15/16	3 15/16	1 11/32	5 43/64	35/64	21/32	53/64	2 1/32	1.937	0.748	1/2	UCVFL208-24ES7	VFL208E	UC208-24S7	0.92	29.1	17.8	14.0	UCVFL208-24ECS7	UCVFL208-24EDS7	69.2	2 23/32	0.95
	1 9/16	176	100	34.5	144	14	16.5	21	51.2	49.2	19	M12	UCVFL208-25ES7		UC208-25S7					UCVFL208-25ECS7	UCVFL208-25EDS7			
													UCVFL208ES7		UC208S7					UCVFL208ECS7	UCVFL208EDS7			

Remarks 1. In Part No. of unit and units with covers, fitting codes follow bore diameter numbers. (See Table 10.5 in P.51.)
2. Part No. of the applicable grease fitting is A-1/4-28UNFN12.
3. For the dimensions and forms of applicable bearings, see the dimensional tables of ball bearing for unit.