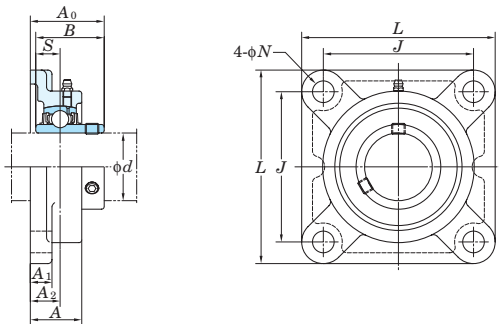
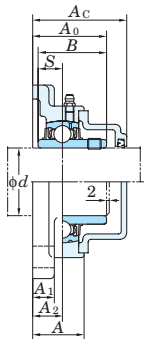
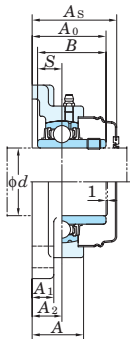


UCF
Cylindrical bore (with set screws)
d 12 ~ (45) mm



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)

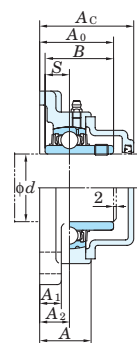
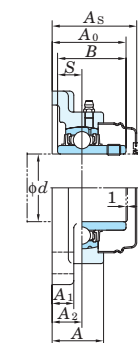
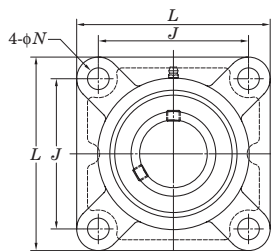
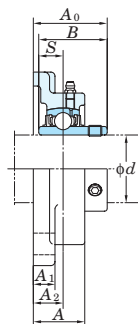
Housing No.			Unit: mm	
			ΔA_{2s}	X
F204~F210	FX05~FX10	F305~F310	±0.5	0.7
F211~F218	FX11~FX20	F311~F328	±0.8	1

Variations of tolerance of bolt hole diameter (ΔN_s)

Housing No.			Unit: mm	
			ΔN_s	
F204~F218	FX05~FX18	F305~F315	±0.2	
	FX20	F316~F328	±0.3	

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						
<i>d</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. Open Type Closed Type	Dimension mm inch <i>A</i> _s		Mass kg	Unit No. Open Type Closed Type	Dimension mm inch <i>A</i> _c	Mass kg							
12	1/2	3 3/8 86	1 25.5	2 33/64 64	1 5/32 12	7/16 11	1 9/32 15	1 5/16 33.3	1.220 31	0.500 12.7	3/8 M10	UCF201 UCF201-8 UCF202 UCF202-10 UCF203 UCF204-12 UCF204	F204	UC201 UC201-8 UC202 UC202-10 UC203 UC204-12 UC204	0.64 0.64 0.62 0.62 0.61 0.61 0.59	12.8	6.65	13.2	UCF201C	UCF201D	37	1 15/32	0.64	—	—	—	—			
																			—	—	—	—	—	—	—	—				
																			UCF202C	UCF202D	37	1 15/32	0.62	—	—	—	—			
																			UCF203C	UCF203D	37	1 15/32	0.61	—	—	—	—			
15	5/8	86	25.5	64	12	11	15	33.3	31	12.7	M10	UCF205-14 UCF205-15 UCF205 UCF205-16	F205	UC205-14 UC205-15 UC205 UC205-16	0.83 0.83 0.83 0.83	14.0	7.85	13.9	—	—	—	—	—	—	—	—	—			
																			—	—	—	—	—	—	—	—				
																			UCF205C	UCF205D	40	1 9/16	0.83	UCF205FC	UCF205FD	49	1 15/16	1.0	—	—
																			—	—	—	—	—	—	—	—				
17	3/4	86	25.5	64	12	11	15	33.3	31	12.7	M10	UCFX05 UCFX05-16	FX05	UCX05 UCX05-16	1.2 1.2	19.5	11.3	13.9	UCFX05C	UCFX05D	44	1 23/32	1.2	—	—	—	—			
																			—	—	—	—	—	—	—	—				
																			—	—	—	—	—	—	—	—				
																			—	—	—	—	—	—	—	—				
20	7/8	86	25.5	64	12	11	15	33.3	31	12.7	M14	UCF305 UCF305-16	F305	UC305 UC305-16	1.3 1.3	21.2	10.9	12.6	—	—	—	—	—	UCF305C	UCF305D	54	2 1/8	1.6		
																			—	—	—	—	—	—	—	—				
																			—	—	—	—	—	—	—	—				
																			—	—	—	—	—	—	—	—				
25	1	95	27	70	12	13	16	35.8	34.1	14.3	M10	UCF206-18 UCF206 UCF206-19 UCF206-20	F206	UC206-18 UC206 UC206-19 UC206-20	1.1 1.1 1.1 1.1	19.5	11.3	13.9	UCF206C	UCF206D	44	1 23/32	1.1	UCF206FC	UCF206FD	53	2 3/32	1.4		
																			—	—	—	—	—	—	—	—				
																			—	—	—	—	—	—	—	—				
																			—	—	—	—	—	—	—	—				
30	1 1/8	108	31	83	12	13	18	40.2	38.1	15.9	M14	UCFX06 UCFX06-19 UCFX06-20	FX06	UCX06 UCX06-19 UCX06-20	1.6 1.6 1.6	25.7	15.4	13.9	UCFX06C	UCFX06D	49	1 15/16	1.6	—	—	—	—			
																			—	—	—	—	—	—	—	—				
																			—	—	—	—	—	—	—	—				
																			—	—	—	—	—	—	—	—				
35	1 3/16	117	34	92	16	14	19	44.4	42.9	17.5	M14	UCF306	F306	UC306	1.9	26.7	15.0	13.3	—	—	—	—	—	UCF306C	UCF306D	59	2 5/16	2.2		
																			—	—	—	—	—	—	—	—				
																			—	—	—	—	—	—	—	—				
																			—	—	—	—	—	—	—	—				
40	1 1/4	117	34	92	16	15	18	44	43	17	M12	UCF207-20 UCF207-21 UCF207-22 UCF207 UCF207-23	F207	UC207-20 UC207-21 UC207-22 UC207 UC207-23	1.5 1.5 1.5 1.5 1.5	25.7	15.4	13.9	—	—	—	—	—	—	—	—	—			
																			—	—	—	—	—	—	—	—				
																			—	—	—	—	—	—	—	—				
																			—	—	—	—	—	—	—	—				
45	1 1/2	130	38	102	16	14	21	51.2	49.2	19	M14	UCFX07-22 UCFX07 UCFX07-23	FX07	UCX07-22 UCX07 UCX07-23	2.0 2.0 2.0	29.1	17.8	14.0	UCFX07C	UCFX07D	55	2 5/32	2.0	—	—	—	—			
																			—	—	—	—	—	—	—	—				
																			—	—	—	—	—	—	—	—				
																			—	—	—	—	—	—	—	—				
50	1 5/8	135	36	100	19	16	20	49	48	19	M16	UCF208-24 UCF208-25 UCF208	F208	UC208-24 UC208-25 UC208	1.9 1.9 1.9	29.1	17.8	14.0	—	—	—	—	—	—	—	—	—			
																			—	—	—	—	—	—	—	—				
																			UCF208C	UCF208D	55	2 5/32	1.9	UCF208FC	UCF208FD	64	2 17/32	2.3	—	—
																			—	—	—	—	—	—	—	—				
55	1 3/4	137	40	105	19	14	22	52.2	49.2	19	M16	UCFX08-24 UCFX08 UCF308-24 UCF308	FX08	UCX08-24 UCX08 UC308-24 UC308	2.4 2.4 3.1 3.1	34.1	21.3	14.0	—	—	—	—	—	—	—	—	—			
																			—	—	—	—	—	—	—	—				
																			UCFX08C	UCFX08D	56	2 7/32	2.4	—	—	—	—			
																			—	—	—	—	—	—	—	—				
60	1 7/8	150	40	112	19	17	23	56	52	19	M16	UCF209-26 UCF209-27 UCF209-28 UCF209	F209	UC209-26 UC209-27 UC209-28 UC209	2.2 2.2 2.2 2.2	34.1	21.3	14.0	—	—	—	—	—	—	—	—	—			
																			—	—	—	—	—	—	—	—				
																			—	—	—	—	—	—	—	—				
																			UCF209C	UCF209D	56	2 7/32	2.2	UCF209FC	UCF209FD	66	2 19/32	2.6	—	—
65	2	143	40	111	19	14	23	55.6	51.6	19	M16	UCFX09-28 UCFX09	FX09	UCX09-28 UCX09	2.7 2.7	35.1	23.3	14.4	—	—	—	—	—	—	—	—	—			
																			—	—	—	—	—	—	—	—				
																			—	—	—	—	—	—	—	—				
																			UCFX09C	UCFX09D	60	2 3/8	2.7	—	—	—	—			

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~X20, 309~328
3. As for the triple seal type product (from 201 to 205 are the double seal type products), accessory code L3 (L2) follows the Part No. of unit or bearing. (Example of Part No. : UCF206JL3, 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.



Housing No.			Δ_{A2s}	X
F204~F210	FX05~FX10	F305~F310	± 0.5	0.7
F211~F218	FX11~FX20	F311~F328	± 0.8	1

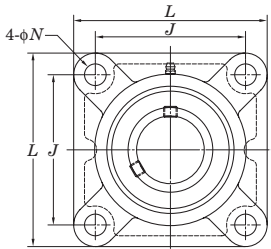
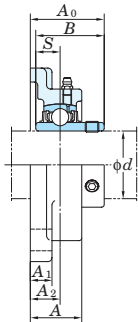
Housing No.			Unit: mm
F204~F218	FX05~FX18	F305~F315	± 0.2
	FX20	F316~F328	± 0.3

Shaft Dia.		Dimensions									Bolt Size	Standard				Basic Load Ratings		Factor	With Pressed Steel Cover				With Cast Iron Cover							
mm	inch	inch mm									inch mm	Unit No.	Housing No.	Bearing No.		Mass	C _r	C _{0r}	f ₀	Unit No. Open Type Closed Type		Dimension mm inch	Mass	Unit No. Open Type Closed Type		Dimension mm inch	Mass			
d		L	A	J	N	A ₁	A ₂	A ₀	B	S					kg						A _s	kg			A _c					
45	1 3/4	6 5/16	1 23/32	4 59/64	3/4	23/32	63/64	2 3/8	2.244	0.866	5/8	UCF309-28	F309	UC309-28	4.0	48.9	29.5	13.3	—	—	—	—	—	—	—	—				
		160	44	125	19	18	25	60	57	22	M16	UCF309		UC309	4.0				—	—	—	—	—	UCF309C	UCF309D	76	3	4.6		
50	1 7/8											UCF210-30	F210	UC210-30	2.5	35.1	23.3	14.4	—	—	—	—	—	—	—	—	—			
	1 15/16	5 5/8	1 9/16	4 3/8	5/8	5/8	55/64	2 5/32	2.031	0.748	1/2	UCF210-31		UC210-31	2.5				—	—	—	—	—	—	—	—	—	—	—	—
		143	40	111	16	16	22	54.6	51.6	19	M14	UCF210		UC210	2.5				UCF210C	UCF210D	59	2 5/16	2.5	UCF210FC	UCF210FD	70.5	2 25/32	3.0		
	2											UCF210-32		UC210-32	2.5								—	—	—	—	—			
	1 15/16	6 3/8	1 23/32	5 1/8	3/4	25/32	1 1/32	2 11/32	2.189	0.874	5/8	UCFX10-31	FX10	UCX10-31	3.7	43.4	29.4	14.4	—	—	—	—	—	—	—	—	—	—		
		162	44	130	19	20	26	59.4	55.6	22.2	M16	UCFX10		UCX10	3.7				UCFX10C	UCFX10D	64	2 17/32	3.7	—	—	—	—	—	—	—
2											UCFX10-32	UCX10-32		3.7	—				—	—	—	—	—	—	—	—	—	—	—	—
	—	6 7/8	1 7/8	5 13/64	29/32	3/4	1 7/64	2 5/8	2.402	0.866	3/4	UCF310	F310	UC310	5.1	62.0	38.3	13.2	—	—	—	—	—	UCF310C	UCF310D	83	3 9/32	5.9		
55	2											UCF211-32	F211	UC211-32	3.4	43.4	29.4	14.4	—	—	—	—	—	—	—	—	—			
	2 1/8	6 3/8	1 11/16	5 1/8	3/4	23/32	63/64	2 5/16	2.189	0.874	M16	UCF211-34		UC211-34	3.4				—	—	—	—	—	—	—	—	—	—	—	—
		162	43	130	19	18	25	58.4	55.6	22.2		UCF211		UC211	3.4				UCF211C	UCF211D	63	2 15/32	3.4	UCF211FC	UCF211FD	74.5	2 15/16	4.0		
	2 3/16	6 7/8	1 15/16	5 5/8	3/4	25/32	1 9/64	2 23/32	2.563	1.000	5/8	UCFX11	FX11	UCX11	4.9	52.4	36.2	14.4	UCFX11C	UCFX11D	73	2 7/8	4.9	—	—	—	—	—		
		175	49	143	19	20	29	68.7	65.1	25.4	M16	UCFX11-35		UCX11-35	4.9				—	—	—	—	—	—	—	—	—	—	—	—
	2 1/4											UXPX11-36		UCX11-36	4.9				—	—	—	—	—	—	—	—	—	—	—	—
2												UCF311-32	F311	UC311-32	5.6	71.6	45.0	13.2	—	—	—	—	—	—	—	—	—			
2 3/16	7 9/32	2 1/16	5 33/64	29/32	25/32	1 3/16	2 25/32	2.598	0.984	3/4	UCF311	UC311		5.6	UCF311C				UCF311D	87	3 7/16	6.5	—	—	—	—	—	—	—	—
	185	52	140	23	20	30	71	66	25	M20	UCF311-35	UC311-35		5.6	—				—	—	—	—	—	—	—	—	—	—	—	—
60	2 1/4											UCF212-36	F212	UC212-36	4.2	52.4	36.2	14.4	—	—	—	—	—	—	—	—	—			
		6 7/8	1 7/8	5 5/8	3/4	23/32	1 9/64	2 23/32	2.563	1.000	M16	UCF212		UC212	4.2				UCF212C	UCF212D	73	2 7/8	4.2	UCF212FC	UCF212FD	86	3 3/8	5.0		
	2 3/8	175	48	143	19	18	29	68.7	65.1	25.4		UCF212-38		UC212-38	4.2				—	—	—	—	—	—	—	—	—	—	—	—
	2 7/16											UCF212-39		UC212-39	4.2								—	—	—	—	—			
	2 7/16	7 3/8	2 5/16	5 55/64	3/4	13/16	1 11/32	2 29/32	2.563	1.000	5/8	UCFX12	FX12	UCX12	5.7	57.2	40.1	14.4	UCFX12C	UCFX12D	78	3 1/16	5.7	—	—	—	—	—		
		187	59	149	19	21	34	73.7	65.1	25.4	M16	UCFX12-39		UCX12-39	5.7				—	—	—	—	—	—	—	—	—	—	—	—
	7 11/16	2 7/32	5 29/32	29/32	7/8	1 19/64	3 1/16	2.795	1.024	3/4	UCF312	UC312		6.9	81.9				52.2	13.2	—	—	—	—	—	UCF312C	UCF312D	95	3 3/4	8.1
65	2 7/16	195	56	150	23	22	33	78	71	26	M20	UCF312-39		UC312-39	6.9								—	—	—	—	—			
	2 1/2	7 3/8	1 31/32	5 55/64	3/4	7/8	1 9/16	2 3/4	2.563	1.000	5/8	UCF213-40	F213	UC213-40	5.2	57.2	40.1	14.4	—	—	—	—	—	—	—	—	—			
		187	50	149	19	22	30	69.7	65.1	25.4	M16	UCF213		UC213	5.2				UCF213C	UCF213D	74	2 29/32	5.2	UCF213FC	UCF213FD	87	3 7/16	6.0		
	2 1/2	7 3/8	2 5/16	5 55/64	3/4	13/16	1 11/32	3 3/32	2.937	1.189	5/8	UCFX13-40		UCX13-40	6.3				—	—	—	—	—	—	—	—	—	—	—	—
		187	59	149	19	21	34	78.4	74.6	30.2	M16	UCFX13	UCX13	6.3	62.2	44.1	14.5	UCFX13C	UCFX13D	83	3 9/32	6.3	—	—	—	—	—			
	2 1/2	8 3/16	2 9/32	6 17/32	29/32	7/8	1 19/64	3 1/16	2.953	1.181	3/4	UCF313-40	F313	UC313-40	7.8	92.7	59.9	13.2	—	—	—	—	—	—	—	—	—			
	208	58	166	23	22	33	78	75	30	M20	UCF313	UC313		7.8	—				—	—	—	—	—	—	—	—	—	—	—	
70	2 3/4	7 19/32	2 1/8	5 63/64	3/4	7/8	1 7/32	2 31/32	2.937	1.189	5/8	UCF214-44	F214	UC214-44	5.9	62.2	44.1	14.5	—	—	—	—	—	—	—	—	—			
		193	54	152	19	22	31	75.4	74.6	30.2	M16	UCF214		UC214	5.9				UCF214C	UCF214D	80	3 5/32	5.9	UCF214FC	UCF214FD	93	3 21/32	6.8		
	2 3/4	7 3/4	2 3/8	5 63/64	29/32	7/8	1 29/64	3 7/32	3.063	1.331	3/4	UCFX14-44	FX14	UCX14-44	7.0	67.4	48.3	14.5	—	—	—	—	—	—	—	—	—			
		197	60	152	23	22	37	81.5	77.8	33.3	M20	UCFX14		UCX14	7.0				UCFX14C	UCFX14D	86	3 3/8	7.0	—	—	—	—	—	—	
75	2 3/4	8 29/32	2 13/32	7 1/64	63/64	31/32	1 27/64	3 3/16	3.071	1.299	7/8	UCF314-44	F314	UC314-44	10.1	104	68.2	13.2	—	—	—	—	—	—	—	—	—			
		226	61	178	25	25	36	81	78	33	M22	UCF314		UC314	10.1				—	—	—	—	—	—	—	—	—	—	—	—
	2 15/16	7 7/8	2 7/32	6 17/64	3/4	7/8	1 11/32	3 3/32	3.063	1.311	5/8	UCF215-47	F215	UC215-47	6.4	67.4	48.3	14.5	—	—	—	—	—	—	—	—	—			
		200	56	159	19	22	34	78.5	77.8	33.3	M16	UCF215		UC215	6.4				UCF215C	UCF215D	83	3 9/32	6.4	UCF215FC	UCF215FD	96	3 25/32	7.4		
	2 15/16	7 3/4	2 11/16	5 63/64	29/32	15/16	1 9/16	3 17/32	3.252	1.311	3/4	UCFX15-47	FX15	UCX15-47	8.4	72.7	53.0	14.6	—	—	—	—	—	—	—	—	—			
	197	68	152	23	24	40	89.3	82.6	33.3	M20	UCFX15	UCX15		8.4	UCFX15C				UCFX15D	94	3 11/16	8.4	—	—	—	—	—	—	—	
3																														

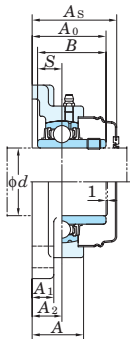
A-R1/8 Z11-Z18, X10-X20, 309-328

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

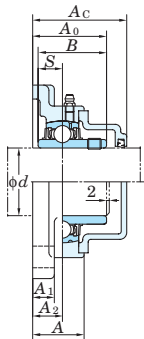
UCF
Cylindrical bore (with set screws)
d (75) ~ 140 mm



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.			Unit: mm	
			ΔA_{2s}	X
F204~F210	FX05~FX10	F305~F310	±0.5	0.7
F211~F218	FX11~FX20	F311~F328	±0.8	1

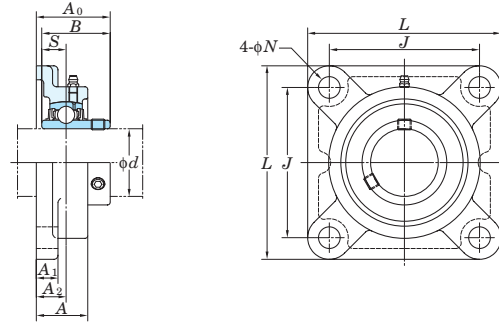
Variations of tolerance of bolt hole diameter (ΔN_s)

Housing No.			Unit: mm	
			ΔN_s	
F204~F218	FX05~FX18	F305~F315	±0.2	
	FX20	F316~F328	±0.3	

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.	Mass kg	Load Ratings kN C _r C _{0r}	f ₀	Unit No.		Dimension mm inch A _s		Mass kg	Unit No.		Dimension mm inch A _c		Mass kg											
Open Type	Closed Type							Open Type	Closed Type																			
d		L	A	J	N	A ₁	A ₂	A ₀	B	S																		
75	2 15/16	9 9/32	2 19/32	7 1/4	63/64	31/32	1 17/32	3 1/2	3.228	1.260	7/8	UCF315-47	F315	UC315-47	11.6	113	77.2	13.2	—	—	—	—	—	—	—	—	—	
	3	236	66	184	25	25	39	89	82	32	M22	UCF315			11.6				—	—	—	—	UCF315C	UCF315D	106	4 3/16	12.9	
															UCF315-48				11.6	—	—	—	—	—	—	—	—	—
80	3 1/8	8 3/16	2 9/32	6 1/2	29/32	7/8	1 11/32	3 9/32	3.252	1.311	3/4	UCF216-50	F216	UC216-50	7.3	72.7	53.0	14.6	—	—	—	—	—	—	—	—	—	
	—	208	58	165	23	22	34	83.3	82.6	33.3	M20	UCF216			7.3				UCF216C	UCF216D	88	3 15/32	7.3	UCF216FC	UCF216FD	103	4 1/16	8.5
			214	70	171	23	24	40	91.6	85.7	34.1	M20			UCFX16				9.4	UCFX16C	UCFX16D	96	3 25/32	9.4	—	—	—	—
85	3 1/4	8 21/32	2 15/32	6 57/64	29/32	15/16	1 13/32	3 7/16	3.374	1.343	3/4	UCF217-52	F217	UC217-52	8.9	84.0	61.9	14.5	—	—	—	—	—	—	—	—	—	
	—	220	63	175	23	24	36	87.6	85.7	34.1	M20	UCF217			8.9				UCF217C	UCF217D	92	3 5/8	8.9	UCF217FC	UCF217FD	107	4 7/32	10.3
			214	70	171	23	24	40	96.3	96	39.7	M20			UCFX17				10.8	UCFX17C	UCFX17D	101	3 31/32	10.8	—	—	—	—
90	3 7/16	10 1/4	2 29/32	8 1/32	1 7/32	1 1/16	1 47/64	3 15/16	3.780	1.575	1	UCF317	F317	UC317	15.3	133	96.8	13.3	—	—	—	—	—	—	—	—	—	
	—	260	74	204	31	27	44	100	96	40	M27									—	—	—	—	UCF317C	UCF317D	117	4 19/32	16.9
			235	68	187	23	25	40	96.3	96	39.7	M20			UCF218-56				11.4	UCF218	11.4	UCF218C	UCF218D	101	3 31/32	11.4	UCF218FC	UCF218FD
95	3 1/2	9 1/4	2 11/16	7 23/64	29/32	31/32	1 9/16	3 25/32	3.780	1.563	3/4	UCF218	F218	UC218-56	11.4	96.1	71.5	14.5	—	—	—	—	—	—	—	—	—	
	—	235	68	187	23	25	40	96.3	96	39.7	M20	UCFX18			11.9				UCFX18C	UCFX18C	124	4 7/8	13.6					
			214	76	171	23	24	45	106.1	104	42.9	M20									—	—	—	—	—	—	—	—
100	3 15/16	11 1/32	3	8 1/2	1 3/8	1 3/16	1 47/64	3 15/16	3.780	1.575	1 1/8	UCF318-56	F318	UC318-56	18.9	143	107	13.3	—	—	—	—	—	—	—	—	—	
	4	280	76	216	35	30	44	100	96	40	M30	UCF318			18.9				—	—	—	—	UCF318C	UCF318D	119	4 11/16	20.8	
			290	94	228	35	30	59	121	103	41	M30			UCF319				21.6	—	—	—	—	UCF319C	UCF319D	140	5 1/2	23.8
105	3 15/16	10 9/16	3 13/16	8 5/16	1 7/32	1 3/32	2 21/64	5	4.626	1.937	1	UCFX20	FX20	UCX20	19.4	133	105	14.4	—	—	—	—	—	—	—	—	—	
	4	268	97	211	31	28	59	127.3	117.5	49.2	M27	UCFX20-63			19.4				—	—	—	—	—	—	—	—	—	—
															UCFX20-64				19.4	—	—	—	—	—	—	—	—	—
110	3 15/16	12 7/32	3 11/16	9 17/32	1 1/2	1 1/4	2 21/64	4 29/32	4.252	1.654	1 1/4	UCF320	F320	UC320-63	25.8	173	141	13.2	—	—	—	—	—	—	—	—	—	
	4	310	94	242	38	32	59	125	108	42	M33	UCF320-63			25.8				—	—	—	—	—	—	—	—	—	—
															UCF320-64				25.8	—	—	—	—	—	—	—	—	—
120	—	12 7/32	3 11/16	9 17/32	1 1/2	1 1/4	2 21/64	5	4.409	1.732	1 1/4	UCF321	F321	UC321	30.2	184	153	13.2	—	—	—	—	—	—	—	—		
130	—	13 3/8	3 25/32	10 15/32	1 39/64	1 3/8	2 23/64	5 5/32	4.606	1.811	1 3/8	UCF322	F322	UC322	35.3	205	180	13.2	—	—	—	—	—	—	—	—		
140	—	14 9/16	4 11/32	11 27/64	1 39/64	1 9/16	2 9/16	5 1/2	4.961	2.008	1 3/8	UCF324	F324	UC324	47.3	207	185	13.5	—	—	—	—	—	—	—	—		
150	—	16 5/32	4 17/32	12 19/32	1 39/64	1 25/32	2 9/16	5 3/4	5.315	2.126	1 3/8	UCF326	F326	UC326	65.5	229	214	13.6	—	—	—	—	—	—	—	—		
160	—	17 23/32	4 29/32	13 25/32	1 39/64	2 5/32	2 61/64	6 11/32	5.709	2.323	1 3/8	UCF328	F328	UC328	80.4	253	246	13.6	—	—	—	—	—	—	—	—		

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~X20, 309~328
3. As for the triple seal type product (from 201 to 205 are the double seal type products), accessory code L3 (L2) follows the Part No. of unit or bearing. (Example of Part No. : UCF206JL3, 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.

UCF-E
Cylindrical bore (with set screws)
 d 12 ~ 60 mm



Shaft Dia. mm inch		Dimensions inch mm									Bolt Size	Unit No.	Housing No.	Bearing No.		Basic Load Ratings kN		Factor	Mass	
<i>d</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					<i>C</i> _r	<i>C</i> _{0r}	<i>f</i> ₀	kg	
12	1/2 5/8 3/4										3/8	UCF201E	F204E	UC201		12.8	6.65	13.2	0.64	
15		3 3/8	1	2 33/64	7/16	7/16	19/32	1 5/16	1.220	0.500		UCF201-8E		UC201-8					0.62	
17		86	25.5	64	11	11	15	33.3	31	12.7		UCF202E		UC202					0.61	
20												UCF202-10E		UC202-10						
30	1 1/8										7/16	UCF203E	F206E	UC203		19.5	11.3	13.9	1.1	
	1 3/16	4 1/4	1 7/32	3 17/64	33/64	1/2	45/64	1 19/32	1.500	0.626		UCF204-12E		UC204-12						
	1 1/4	108	31	83	13	13	18	40.2	38.1	15.9		UCF206E		UC206						
												UCF206-19E		UC206-19						
35	1 3/16	4 19/32	1 11/32	3 5/8	33/64	9/16	3/4	1 3/4	1.689	0.689	7/16	UCFX06E	FX06E	UCX06		25.7	15.4	13.9	1.6	
	1 1/4	117	34	92	13	14	19	44.4	42.9	17.5		UCFX06-19E		UCX06-19						
												UCFX06-20E		UCX06-20						
40	1 1/4										7/16	UCF207-20E	F207E	UC207-20		25.7	15.4	13.9	1.5	
	1 5/16	4 19/32	1 11/32	3 5/8	33/64	19/32	3/4	1 3/4	1.689	0.689		UCF207-21E		UC207-21						
	1 3/8	117	34	92	13	15	19	44.4	42.9	17.5		UCF207-22E		UC207-22						
	1 7/16											UCF207E		UC207						
45	1 3/8	5 1/8	1 1/2	4 1/64	33/64	9/16	53/64	2 1/32	1.937	0.748	7/16	UCFX07-22E	FX07E	UCX07-22		29.1	17.8	14.0	2.0	
	1 7/16	130	38	102	13	14	21	51.2	49.2	19		UCFX07E		UCX07						
												UCFX07-23E		UCX07-23						
50	1 1/2	5 1/8	1 13/32	4 1/64	35/64	19/32	53/64	2 1/32	1.937	0.748	1/2	UCF208-24E	F208E	UC208-24		29.1	17.8	14.0	1.9	
	1 9/16	130	36	102	14	15	21	51.2	49.2	19		UCF208-25E		UC208-25						
												UCF208E		UC208						
55	1 1/2	5 13/32	1 9/16	4 9/64	19/32	9/16	55/64	2 1/16	1.937	0.748	1/2	UCFX08-24E	FX08E	UCX08-24		34.1	21.3	14.0	2.4	
	1 3/4	137	40	105	15	14	22	52.2	49.2	19		UCFX08E		UCX08						
60	1 3/4	5 5/8	1 9/16	4 3/8	19/32	9/16	29/32	2 3/16	2.031	0.748	1/2	UCFX09-28E	FX09E	UCX09-28		35.1	23.3	14.4	2.7	
	2	143	40	111	15	14	23	55.6	51.6	19		UCFX09E		UCX09						
65	1 15/16	6 3/8	1 23/32	5 1/8	21/32	25/32	1 1/32	2 11/32	2.189	0.874	9/16	UCFX10-31E	FX10E	UCX10-31		43.4	29.4	14.4	3.7	
	2	162	44	130	16.5	20	26	59.4	55.6	22.2		UCFX10E		UCX10						
												UCFX10-32E		UCX10-32						
70	2	6 3/8	1 11/16	5 1/8	43/64	23/32	63/64	2 5/16	2.189	0.874	5/8	UCF211-32E	F211E	UC211-32		43.4	29.4	14.4	3.4	
	2 1/8	162	43	130	17	18	25	58.4	55.6	22.2		UCF211-34E		UC211-34						
												UCF211E		UC211						
												UCF211-35E		UC211-35						
75	2 3/16	6 7/8	1 15/16	5 5/8	21/32	25/32	1 9/64	2 23/32	2.563	1.000	9/16	UCFX11E	FX11E	UCX11		52.4	36.2	14.4	4.9	
	2 1/4	175	49	143	16.5	20	29	68.7	65.1	25.4		UCFX11-35E		UCX11-35						
												UCFX11-36E		UCX11-36						
80	2 1/4	6 7/8	1 7/8	5 5/8	43/64	23/32	1 9/64	2 23/32	2.563	1.000	5/8	UCF212-36E	F212E	UC212-36		52.4	36.2	14.4	4.2	
	2 3/8	175	48	143	17	18	29	68.7	65.1	25.4		UCF212E		UC212						
												UCF212-38E		UC212-38						
												UCF212-39E		UC212-39						
85	2 7/16	7 3/8	2 5/16	5 55/64	21/32	13/16	1 11/32	2 29/32	2.563	1.000	9/16	UCFX12E	FX12E	UCX12		57.2	40.1	14.4	5.7	
		187	59	149	16.5	21	34	73.7	65.1	25.4		UCFX12-39E		UCX12-39						

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 201~208, X05~X09

A-R1/8 211~217, X10~X17

3. As for the triple seal type product (from 201 to 205 are the double seal type products), accessory code L3 (L2) follows the Part No. of unit or bearing. (Example of Part No. : UCF206EJL3, 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.

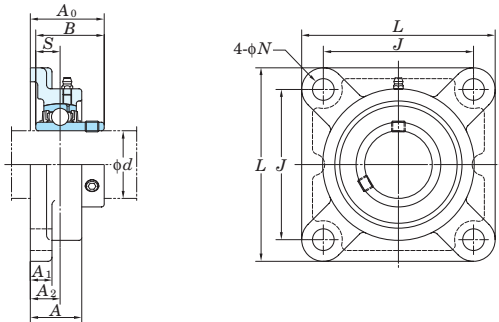
Variations of tolerance of distance from mounting surface to center of spherical bore (Δ_{A2s}) and tolerance of position of bolt hole (X)

Housing No.		Δ_{A2s}	X
F204E~F210E	FX05E~FX10E	± 0.5	0.7
F211E~F217E	FX11E~FX17E	± 0.8	1

Variations of tolerance of bolt hole diameter (ΔN_8)

		Unit: mm
Housing No.		Δ_{Ns}
F204E~F217E	FX05E~FX17E	± 0.2

UCF-E
Cylindrical bore (with set screws)
d 65 ~ 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)

Housing No.		Unit: mm	
		ΔA_{2s}	X
F204E-F210E	FX05E-FX10E	± 0.5	0.7
F211E-F217E	FX11E-FX17E	± 0.8	1

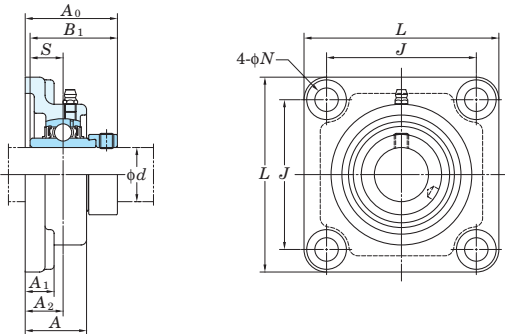
Variations of tolerance of bolt hole diameter (ΔN_s)

Housing No.		Unit: mm	
		ΔN_s	
F204E-F217E	FX05E-FX17E	± 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		L	A	J	N	A_1	A_2	A_0	B	S					C_r	C_{0r}		
65	2 1/2	7 3/8	1 31/32	5 55/64	43/64	7/8	1 3/16	2 3/4	2.563	1.000	5/8	UCF213-40E UCF213E	F213E	UC213-40 UC213	57.2	40.1	14.4	5.2
	2 1/2	7 3/8	1 31/32	5 55/64	21/32	13/16	1 11/32	3 3/32	2.937	1.189	9/16	UCFX13-40E UCFX13E	FX13E	UCX13-40 UCX13	62.2	44.1	14.5	6.3
70	2 3/4	7 3/4	2 3/8	5 63/64	25/32	7/8	1 29/64	3 7/32	3.063	1.331	11/16	UCFX14-44E UCFX14E	FX14E	UCX14-44 UCX14	67.4	48.3	14.5	7.0
	2 15/16	7 3/4	2 11/16	5 63/64	25/32	15/16	1 9/16	3 17/32	3.252	1.311	11/16	UCFX15-47E UCFX15E UCFX15-48E	FX15E	UCX15-47 UCX15 UCX15-48	72.7	53.0	14.6	8.4
80	3 1/8	8 3/16	2 9/32	6 1/2	3/4	7/8	1 11/32	3 9/32	3.252	1.311	11/16	UCF216-50E UCF216E	F216E	UC216-50 UC216	72.7	53.0	14.6	7.3
	—	8 7/16	2 3/4	6 47/64	25/32	15/16	1 9/16	3 19/32	3.374	1.343	11/16	UCFX16E	FX16E	UCX16	84.0	61.9	14.5	9.4
85	3 1/4	8 21/32	2 15/32	6 57/64	3/4	15/16	1 13/32	3 7/16	3.374	1.343	11/16	UCF217-52E UCF217E	F217E	UC217-52 UC217	84.0	61.9	14.5	8.9
	3 7/16	8 7/16	2 3/4	6 47/64	25/32	15/16	1 9/16	3 25/32	3.780	1.563	11/16	UCFX17E UCFX17-55E	FX17E	UCX17 UCX17-55	96.1	71.5	14.5	10.8

- 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 201~208, X05~X09
A-R1/8 211~217, X10~X17
3. As for the triple seal type product (from 201 to 205 are the double seal type products), accessory code L3 (L2) follows the Part No. of unit or bearing. (Example of Part No. : UCF206EJL3, 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.

NANF
Cylindrical bore
(with eccentric locking collar)
d 12 ~ 60 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}	<i>X</i>
NF204~NF210	±0.5	0.7
NF211~NF212	±0.8	1

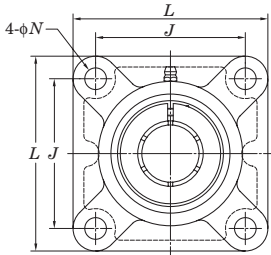
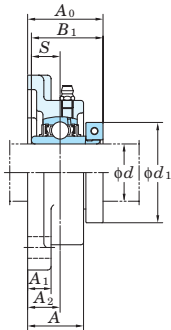
Variations of tolerance of bolt hole diameter (ΔN_b)

Unit: mm		
Housing No.	ΔN_b	
NF204~NF212	±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>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											NANF201		NA201	12.8	6.65	13.2	0.73
15	5/8	3 3/8	1 5/32	2 33/64	7/16	19/32	3/4	1 25/32	1.720	0.673	3/8	NANF201-8	NF204	NA201-8				
												NANF202		NA202				
17	3/4	86	29.5	64	11	15	19	45.6	43.7	17.1		NANF202-10		NA202-10				
												NANF203		NA203				
20												NANF204-12		NA204-12				
												NANF204		NA204				
25	7/8											NANF205-14		NA205-14	14.0	7.85	13.9	0.95
	15/16	3 3/4	1 7/32	2 3/4	15/32	19/32	25/32	1 27/32	1.748	0.689	7/16	NANF205-15	NF205	NA205-15				
		95	31	70	12	15	20	46.9	44.4	17.5		NANF205		NA205				
	1											NANF205-16		NA205-16				
												NANF206-18		NA206-18				
30	1 1/8											NANF206		NA206	19.5	11.3	13.9	1.4
	1 3/16	4 1/4	1 11/32	3 17/64	33/64	5/8	53/64	2	1.906	0.720	7/16	NANF206-19	NF206	NA206-19				
	1 1/4	108	34	83	13	16	21	51.1	48.4	18.3		NANF206-20		NA206-20				
												NANF207-20		NA207-20				
												NANF207-21		NA207-21				
35	1 5/16											NANF207-22		NA207-22	25.7	15.4	13.9	1.8
	1 3/8	4 19/32	1 7/16	3 5/8	33/64	21/32	27/32	2 1/8	2.012	0.740	7/16	NANF207	NF207	NA207				
		117	36.5	92	13	17	21.5	53.8	51.1	18.8		NANF207-23		NA207-23				
	1 7/16											NANF208-24		NA208-24				
												NANF208-25		NA208-25				
40	1 1/2											NANF208		NA208	29.1	17.8	14.0	2.2
	1 9/16	5 1/8	1 17/32	4 1/64	35/64	21/32	15/16	2 5/16	2.217	0.843	1/2	NANF209-26	NF208	NA209-26				
		130	39	102	14	17	24	58.9	56.3	21.4		NANF209-27		NA209-27				
												NANF209-28		NA209-28				
												NANF209		NA209				
45	1 5/8											NANF210-30		NA210-30	35.1	23.3	14.4	3.0
	1 11/16	5 13/32	1 9/16	4 9/64	5/8	23/32	15/16	2 5/16	2.217	0.843	9/16	NANF210-31	NF209	NA210-31				
	1 3/4	137	40	105	16	18	24	58.9	56.3	21.4		NANF210		NA210				
												NANF210-32		NA210-32				
												NANF211-32		NA211-32				
50	1 7/8											NANF211-34		NA211-34	43.4	29.4	14.4	4.1
	1 15/16	5 5/8	1 27/32	4 3/8	43/64	25/32	1 1/8	2 5/8	2.469	0.969	9/16	NANF211	NF210	NA211				
	2	143	46.5	111	17	20	28.5	66.6	62.7	24.6		NANF211-35		NA211-35				
												NANF212-36		NA212-36				
												NANF212		NA212				
55	2											NANF212-38		NA212-38	52.4	36.2	14.4	4.9
	2 1/8	6 3/8	1 31/32	5 1/8	43/64	13/16	1 17/64	2 31/32	2.811	1.094	5/8	NANF212-39	NF211	NA212-39				
	2 3/16	162	50	130	17	21	32	75.6	71.4	27.8								
60	2 1/4														52.4	36.2	14.4	4.9
	2 3/8	6 7/8	2 5/32	5 5/8	43/64	13/16	1 27/64	3 1/4	3.063	1.220	5/8		NF212	NA212-38				
	2 7/16	175	55	143	17	21	36	82.8	77.8	31				NA212-39				

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..... 211~212
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.

NCF
Cylindrical bore
(with concentric locking collar)
d 20 ~ 60 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
F204~F210	±0.5	0.7
F211~F212	±0.8	1

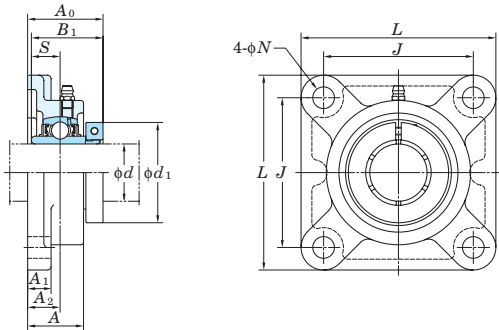
Variations of tolerance of bolt hole diameter (ΔN_s)

Housing No.	Unit: mm	
	ΔN_s	
F204~F212	±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		L	A	J	N	A_1	A_2	A_0	B_1	S	d_1					C_r	C_{0r}		
20	3/4	3 3/8	1	2 33/64	15/32	7/16	19/32	1 3/8	1 9/32	0.500	1 3/4	3/8	NCF204-12 NCF204	F204	NC204-12 NC204	12.8	6.65	13.2	0.73
		86	25.5	64	12	11	15	34.8	32.5	12.7	44.5	M10							
25	7/8	3 3/4	1 1/16	2 3/4	15/32	1/2	5/8	1 1/2	1 7/16	0.563	1 15/16	3/8	NCF205-14 NCF205-15 NCF205 NCF205-16	F205	NC205-14 NC205-15 NC205 NC205-16	14.0	7.85	13.9	1.0
	15/16	95	27	70	12	13	16	38.2	36.5	14.3	49.2	M10							
30	1 1/8	4 1/4	1 7/32	3 17/64	15/32	1/2	45/64	1 21/32	1 9/16	0.626	2 3/16	3/8	NCF206-18 NCF206 NCF206-19 NCF206-20	F206	NC206-18 NC206 NC206-19 NC206-20	19.5	11.3	13.9	1.3
	1 3/16	108	31	83	12	13	18	41.8	39.7	15.9	55.6	M10							
35	1 1/4	4 19/32	1 11/32	3 5/8	35/64	19/32	3/4	1 13/16	1 3/4	0.689	2 7/16	7/16	NCF207-20	F207	NC207-20	25.7	15.4	13.9	1.8
		117	34	92	14	15	19	46	44.5	17.5	61.9	M12							
40	1 3/8	4 19/32	1 11/32	3 5/8	35/64	19/32	3/4	1 13/16	1 3/4	0.689	2 9/16	7/16	NCF207-22 NCF207 NCF207-23	F207	NC207-22 NC207 NC207-23	25.7	15.4	13.9	1.8
	1 7/16	117	34	92	14	15	19	46	44.5	17.5	65.1	M12							
45	1 1/2	5 1/8	1 13/32	4 1/64	5/8	19/32	53/64	2 3/32	2	0.748	2 11/16	1/2	NCF208-24 NCF208	F208	NC208-24 NC208	29.1	17.8	14.0	2.3
		130	36	102	16	15	21	52.8	50.8	19	68.3	M14							
50	1 5/8	5 13/32	1 1/2	4 9/64	5/8	5/8	55/64	2 1/8	2	0.748	2 13/16	1/2	NCF209-26	F209	NC209-26	34.1	21.3	14.0	2.6
		137	38	105	16	16	22	53.8	50.8	19	71.4	M14							
55	1 11/16	5 13/32	1 1/2	4 9/64	5/8	5/8	55/64	2 1/8	2	0.748	2 15/16	1/2	NCF209-27 NCF209-28 NCF209	F209	NC209-27 NC209-28 NC209	34.1	21.3	14.0	2.6
	1 3/4	137	38	105	16	16	22	53.8	50.8	19	74.6	M14							
60	1 15/16	5 5/8	1 9/16	4 3/8	5/8	5/8	55/64	2 7/32	2 3/32	0.748	3 3/8	1/2	NCF210-31 NCF210 NCF210-32	F210	NC210-31 NC210 NC210-32	35.1	23.3	14.4	3.1
	2	143	40	111	16	16	22	56.1	53.1	19	85.7	M14							
65	2 1/8	6 3/8	1 11/16	5 1/8	3/4	23/32	63/64	2 11/32	2 1/4	0.874	3 1/2	5/8	NCF211-32	F211	NC211-32	43.4	29.4	14.4	3.8
		162	43	130	19	18	25	59.9	57.1	22.2	88.9	M16							
70	2 3/16	6 3/8	1 11/16	5 1/8	3/4	23/32	63/64	2 11/32	2 1/4	0.874	3 5/8	5/8	NCF211 NCF211-35	F211	NC211 NC211-35	43.4	29.4	14.4	3.8
		162	43	130	19	18	25	59.9	57.1	22.2	92.1	M16							
75	2 1/4	6 7/8	1 7/8	5 5/8	3/4	23/32	1 9/64	2 25/32	2 5/8	1.000	4 1/16	5/8	NCF212-36	F212	NC212-36	52.4	36.2	14.4	4.9
		175	48	143	19	18	29	70.3	66.7	25.4	103.2	M16							
80	2 1/2	6 7/8	1 7/8	5 5/8	3/4	23/32	1 9/64	2 25/32	2 5/8	1.000	4 1/8	5/8	NCF212 NCF212-39	F212	NC212 NC212-39	52.4	36.2	14.4	4.9
	2 7/16	175	48	143	19	18	29	70.3	66.7	25.4	104.8	M16							

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.

NCF-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_{2s}) and tolerance of position of bolt hole (X)

Unit: mm		
Housing No.	ΔA_{2s}	X
F204E-F208E	± 0.5	0.7
F211E-F212E	± 0.8	1

Variations of tolerance of bolt hole diameter (ΔN_s)

Unit: mm	
Housing No.	ΔN_s
F204E-F212E	± 0.2

Shaft Dia. mm inch		Dimensions inch mm										Bolt Size inch	Unit No.	Housing No.	Bearing No.	Basic Load Ratings kN		Factor	Mass
d		L	A	J	N	A_1	A_2	A_0	B_1	S	d_1					C_r	C_{0r}	f_0	kg
20	$\frac{3}{4}$	$3\frac{3}{8}$ 86	1 25.5	$2\frac{33}{64}$ 64	$\frac{7}{16}$ 11	$\frac{7}{16}$ 11	$\frac{19}{32}$ 15	$1\frac{3}{8}$ 34.8	$1\frac{9}{32}$ 32.5	0.500 12.7	$1\frac{3}{4}$ 44.5	$\frac{3}{8}$	NCF204-12E NCF204E	F204E	NC204-12 NC204	12.8	6.65	13.2	0.73
25	$\frac{7}{8}$ $\frac{15}{16}$ 1	Please refer to the NCF.																	
30	$1\frac{1}{8}$ $1\frac{3}{16}$ $1\frac{1}{4}$	$4\frac{1}{4}$ 108	$1\frac{7}{32}$ 31	$3\frac{17}{64}$ 83	$\frac{33}{64}$ 13	$\frac{1}{2}$ 13	$\frac{45}{64}$ 18	$1\frac{21}{32}$ 41.8	$1\frac{9}{16}$ 39.7	0.626 15.9	$2\frac{3}{16}$ 55.6	$\frac{7}{16}$	NCF206-18E NCF206E NCF206-19E NCF206-20E	F206E	NC206-18 NC206 NC206-19 NC206-20	19.5	11.3	13.9	1.3
35	$1\frac{1}{4}$	$4\frac{19}{32}$ 117	$1\frac{11}{32}$ 34	$3\frac{5}{8}$ 92	$\frac{33}{64}$ 13	$\frac{19}{32}$ 15	$\frac{3}{4}$ 19	$1\frac{13}{16}$ 46	$1\frac{3}{4}$ 44.5	0.689 17.5	$2\frac{7}{16}$ 61.9	$\frac{7}{16}$	NCF207-20E	F207E	NC207-20	25.7	15.4	13.9	1.8
	$1\frac{3}{8}$ $1\frac{7}{16}$	$4\frac{19}{32}$ 117	$1\frac{11}{32}$ 34	$3\frac{5}{8}$ 92	$\frac{33}{64}$ 13	$\frac{19}{32}$ 15	$\frac{3}{4}$ 19	$1\frac{13}{16}$ 46	$1\frac{3}{4}$ 44.5	0.689 17.5	$2\frac{9}{16}$ 65.1	$\frac{7}{16}$	NCF207-22E NCF207E NCF207-23E	F207E	NC207-22 NC207 NC207-23	25.7	15.4	13.9	1.8
40	$1\frac{1}{2}$	$5\frac{1}{8}$ 130	$1\frac{13}{32}$ 36	$4\frac{1}{64}$ 102	$\frac{35}{64}$ 14	$\frac{19}{32}$ 15	$\frac{53}{64}$ 21	$2\frac{3}{32}$ 52.8	2 50.8	0.748 19	$2\frac{11}{16}$ 68.3	$\frac{1}{2}$	NCF208-24E NCF208E	F208E	NC208-24 NC208	29.1	17.8	14.0	2.3
45	$1\frac{5}{8}$ $1\frac{11}{16}$ $1\frac{3}{4}$	Please refer to the NCF.																	
50	$1\frac{15}{16}$ 2	Please refer to the NCF.																	
55	2	$6\frac{3}{8}$ 162	$1\frac{11}{16}$ 43	$5\frac{1}{8}$ 130	$\frac{43}{64}$ 17	$\frac{23}{32}$ 18	$\frac{63}{64}$ 25	$2\frac{11}{32}$ 59.9	$2\frac{1}{4}$ 57.1	0.874 22.2	$3\frac{1}{2}$ 88.9	$\frac{5}{8}$	NCF211-32E	F211E	NC211-32	43.4	29.4	14.4	3.8
	$2\frac{3}{16}$	$6\frac{3}{8}$ 162	$1\frac{11}{16}$ 43	$5\frac{1}{8}$ 130	$\frac{43}{64}$ 17	$\frac{23}{32}$ 18	$\frac{63}{64}$ 25	$2\frac{11}{32}$ 59.9	$2\frac{1}{4}$ 57.1	0.874 22.2	$3\frac{5}{8}$ 92.1	$\frac{5}{8}$	NCF211E NCF211-35E	F211E	NC211 NC211-35	43.4	29.4	14.4	3.8
60	$2\frac{1}{4}$	$6\frac{7}{8}$ 175	$1\frac{7}{8}$ 48	$5\frac{5}{8}$ 143	$\frac{43}{64}$ 17	$\frac{23}{32}$ 18	$1\frac{9}{64}$ 29	$2\frac{25}{32}$ 70.3	$2\frac{5}{8}$ 66.7	1.000 25.4	$4\frac{1}{16}$ 103.2	$\frac{5}{8}$	NCF212-36E	F212E	NC212-36	52.4	36.2	14.4	4.9
	$2\frac{7}{16}$	$6\frac{7}{8}$ 175	$1\frac{7}{8}$ 48	$5\frac{5}{8}$ 143	$\frac{43}{64}$ 17	$\frac{23}{32}$ 18	$1\frac{9}{64}$ 29	$2\frac{25}{32}$ 70.3	$2\frac{5}{8}$ 66.7	1.000 25.4	$4\frac{1}{8}$ 104.8	$\frac{5}{8}$	NCF212E NCF212-39E	F212E	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.

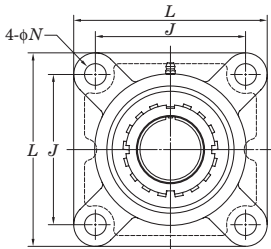
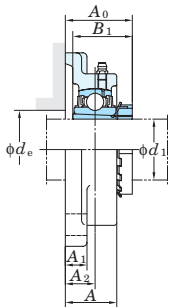
A-1/4-28UNF 204~208

A-R1/8 211~212

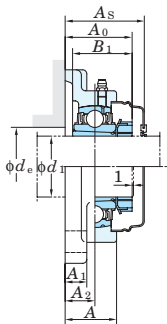
3. For the dimensions and forms of applicable bearings, see the dimensional tables of ball bearing for unit.

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

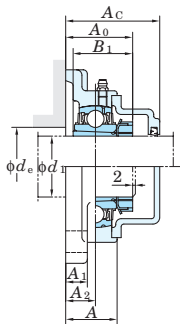
UKF
Tapered bore (with adapter)
d₁ 20 ~ (50) mm



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
F205~F210	FX05~FX10	±0.5	0.7
F211~F218	FX11~FX20	±0.8	1

Variations of tolerance of bolt hole diameter (ΔN_s)

Housing No.		ΔN_s
F205~F218	FX05~FX18	±0.2
	FX20	±0.3

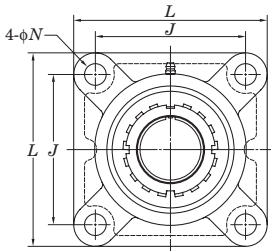
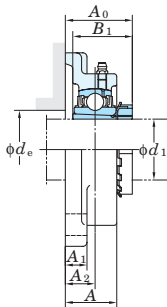
Shaft Dia. mm inch		Dimensions inch mm										Bolt Size inch mm	Standard				Adapter ¹⁾ No.	Mass kg	Basic		Factor	With Pressed Steel Cover				With Cast Iron Cover			
		Unit No.	Housing No.	Bearing No.		Load Ratings kN	f ₀	Unit No.		Dimension			Mass kg	Unit No.		Dimension			Mass kg										
d ₁	L							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				
20	3/4	3 3/4 95	1 1/16 27	2 3/4 70	15/32 12	1/2 13	5/8 16	1 11/32(1 13/32) 34.5(36)	1 5/32(1 3/8) 29(35)	1 3/16 30	3/8 M10	UKF205	F205	UK205	HE305X(HE2305X) H305X(H2305X)	0.87 0.87	14.0 7.85	13.9	— UKF205C	— UKF205D	— 40	— 1 9/16	— 0.87	— UKF205FC	— UKF205FD	— 49	— 1 15/16	— 1.1	
	3/4	4 1/4 108	1 3/16 30	3 17/64 83	15/32 12	1/2 13	45/64 18	1 15/32 37.5	1 3/8 35	1 3/16 30	3/8 M10	UKFX05	FX05	UKX05	HE2305X H2305X	1.2 1.2	19.5 11.3	13.9	— UKFX05C	— UKFX05D	— 44	— 1 23/32	— 1.2	— —	— —	— —	— —		
	3/4	4 11/32 110	1 5/32 29	3 5/32 80	5/8 16	1/2 13	5/8 16	1 15/32 37.5	1 3/8 35	— —	1/2 M14	UKF305	F305	UK305	HE2305X H2305X	1.4 1.4	21.2 10.9	12.6	— —	— —	— —	— —	— —	— —	— —	— —	— —		
		4 1/4 108	1 7/32 31	3 17/64 83	15/32 12	1/2 13	45/64 18	1 15/32(1 9/16) 37.5(39.5)	1 7/32(1 1/2) 31(38)	1 13/32 36	3/8 M10	UKF206	F206	UK206	H306X(H2306X) HE306X(HE2306X)	1.3 1.3	19.5 11.3	13.9	UKF206C —	UKF206D —	44 —	1 23/32 —	1.3 —	UKF206FC —	UKF206FD —	53 —	2 3/32 —	1.6 —	
25	1	4 19/32 117	1 11/32 34	3 5/8 92	5/8 16	9/16 14	3/4 19	1 9/16 40	1 1/2 38	1 13/32 36	1/2 M14	UKFX06	FX06	UKX06	H2306X HE2306X	1.6 1.6	25.7 15.4	13.9	UKFX06C —	UKFX06D —	49 —	1 15/16 —	1.6 —	— —	— —	— —	— —	— —	
	1	4 29/32 125	1 1/4 32	3 47/64 95	5/8 16	19/32 15	45/64 18	1 5/8 41	1 1/2 38	— —	1/2 M14	UKF306	F306	UK306	H2306X HE2306X	1.9 1.9	26.7 15.0	13.3	— —	— —	— —	— —	— —	UKF306C —	UKF306D —	59 —	2 5/16 —	2.2 —	
		1 1/8	4 19/32 117	1 11/32 34	3 5/8 92	35/64 14	19/32 15	3/4 19	1 5/8(1 11/16) 41(43)	1 3/8(1 11/16) 35(43)	1 5/8 41	7/16 M12	UKF207	F207	UK207	HS307X(HS2307X) H307X(H2307X)	1.6 1.6	25.7 15.4	13.9	— UKF207C	— UKF207D	— 49	— 1 15/16	— 1.6	— UKF207FC	— UKF207FD	— 58	— 2 9/32	— 2.0
30	1 1/8	5 1/8 130	1 1/2 38	4 1/64 102	5/8 16	9/16 14	53/64 21	1 23/32 43.5	1 11/16 43	1 5/8 41	1/2 M14	UKFX07	FX07	UKX07	HS2307X H2307X	2.0 2.0	29.1 17.8	14.0	— UKFX07C	— UKFX07D	— 55	— 2 5/32	— 2.0	— —	— —	— —	— —	— —	
	1 1/8	5 5/16 135	1 13/32 36	3 15/16 100	3/4 19	5/8 16	25/32 20	1 25/32 45.5	1 11/16 43	— —	5/8 M16	UKF307	F307	UK307	HS2307X H2307X	2.3 2.3	33.4 19.3	13.2	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	
		1 1/4 130	1 13/32 36	4 1/64 102	5/8 16	19/32 15	53/64 21	1 3/4(1 7/8) 44.5(48)	1 13/32(1 13/16) 36(46)	1 13/16 46	1/2 M14	UKF208	F208	UK208	HE308X(HE2308X) HS308X(HS2308X) H308X(H2308X)	1.9 1.9 1.9	29.1 17.8	14.0	— — UKF208C	— — UKF208D	— — 55	— — 2 5/32	— — 1.9	— — UKF208FC	— — UKF208FD	— — 64	— — 2 17/32	— — 2.3	
35	1 1/4 137	5 13/32 40	1 9/16 105	4 9/64 19	3/4 14	9/16 22	55/64 22	1 27/32 46.5	1 13/16 46	1 13/16 46	5/8 M16	UKFX08	FX08	UKX08	HE2308X HS2308X H2308X	2.3 2.3 2.3	34.1 21.3	14.0	— — UKFX08C	— — UKFX08D	— — 56	— — 2 7/32	— — 2.3	— — —	— — —	— — —	— — —	— — —	
	1 3/8	5 29/32 150	1 9/16 40	4 13/32 112	3/4 19	21/32 17	29/32 23	2 50.5	1 13/16 46	— —	5/8 M16	UKF308	F308	UK308	HE2308X HS2308X H2308X	3.1 3.1 3.1	40.7 24.0	13.2	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	
		1 1/2	5 13/32 137	1 1/2 38	4 9/64 105	5/8 16	5/8 16	55/64 22	1 7/8(2) 47.5(51)	1 17/32(1 31/32) 39(50)	2 1/16 52	1/2 M14	UKF209	F209	UK209	HE309X(HE2309X) H309X(H2309X)	2.3 2.3	34.1 21.3	14.0	— UKF209C	— UKF209D	— 56	— 2 7/32	— 2.3	— UKF209FC	— UKF209FD	— 66	— 2 19/32	— 2.8
40	1 1/2	5 5/8 143	1 9/16 40	4 3/8 111	3/4 19	9/16 14	29/32 23	1 29/32 48.5	1 31/32 50	2 1/16 52	5/8 M16	UKFX09	FX09	UKX09	HE2309X H2309X	2.7 2.7	35.1 23.3	14.4	— UKFX09C	— UKFX09D	— 60	— 2 3/8	— 2.7	— —	— —	— —	— —	— —	
	1 1/2	6 5/16 160	1 23/32 44	4 59/64 125	3/4 19	23/32 18	63/64 25	2 3/32 55	1 31/32 50	— —	5/8 M16	UKF309	F309	UK309	HE2309X H2309X	4.1 4.1	48.9 29.5	13.3	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	
		1 3/4	5 5/8 143	1 9/16 40	4 3/8 111	5/8 16	5/8 16	55/64 22	1 29/32(2 1/16) 48.5(52)	1 21/32(2 5/32) 42(55)	2 9/32 58	1/2 M14	UKF210	F210	UK210	HE310X(HE2310X) H310X(H2310X)	2.6 2.6	35.1 23.3	14.4	— UKF210C	— UKF210D	— 59	— 2 5/16	— 2.6	— UKF210FC	— UKF210FD	— 70.5	— 2 25/32	— 3.1
45	3/4	6 3/8 162	1 23/32 44	5 1/8 130	3/4 19	25/32 20	1 1/32 26	2 3/32 53.5	2 5/32 55	2 9/32 58	5/8 M16	UKFX10	FX10	UKX10	HE2310X H2310X	3.6 3.6	43.4 29.4	14.4	— UKFX10C	— UKFX10D	— 64	— 2 17/32	— 3.6	— —	— —	— —	— —	— —	
	3/4	6 7/8 175	1 7/8 48	5 13/64 132	29/32 23	3/4 19	1 7/64 28	2 3/8 60	2 5/32 55	— —	3/4 M20	UKF310	F310	UK310	HE2310X H2310X	5.1 5.1	62.0 38.3	13.2	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	
		1 7/8	6 3/8 162	1 11/16 43	5 1/8 130	3/4 19	23/32 18	63/64 25	2 3/32(2 1/4) 53(57.5)	1 25/32(2 5/16) 45(59)	2 17/32 64	5/8 M16	UKF211	F211	UK211	HS311X(HS2311X) H311X(H2311X) HE311X(HE2311X)	3.5 3.5 3.5	43.4 29.4	14.4	— UKF211C	— UKF211D	— 63	— 2 15/32	— 3.5	— UKF211FC	— UKF211FD	— 74.5	— 2 15/16	— 4.1
50	1 7/8	6 7/8 175	1 15/16 49	5 5/8 143	3/4 19	25/32 20	1 9/64 29	2 9/32 58	2 5/16 59	2 17/32 64	5/8 M16	UKFX11	FX11	UKX11	HS2311X H2311X HE2311X	4.6 4.6 4.6	52.4 36.2	14.4	— UKFX11C	— UKFX11D	— 73	— 2 7/8	— 4.6	— —	— —	— —	— —	— —	

Note 1) Codes shown in parentheses indicate the dimensions and Part No. of applicable adapter (H2300X series) for UK200L3 series (triple seal type).
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~X20, 309~328

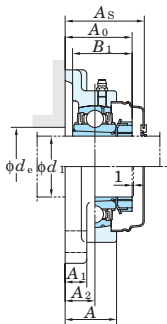
Remarks 1. In Part No. of unit and units with covers, fitting codes follow bore diameter numbers. (See Table 10.5 in P.51.)

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. : UKF206J + H306X, UK206 + H306X)
4. As for the triple seal type product (205 is the double seal type product), accessory code L3 (L2) follows the Part No. of unit or bearing.
(Example of Part No. : UKF206JL3 + 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.

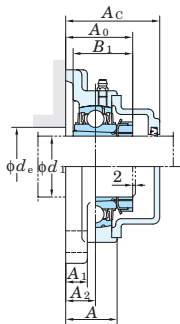
UKF
Tapered bore (with adapter)
d₁ (50) ~ (90) mm



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
F205~F210	FX05~FX10	±0.5	0.7
F211~F218	FX11~FX20	±0.8	1

Variations of tolerance of bolt hole diameter (ΔN_s)

Housing No.		ΔN_s
F205~F218	FX05~FX18	±0.2
F219~F228	FX19~FX28	±0.3

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.	Mass	Load Ratings kN	f ₀	Unit No.		Dimension mm inch		Mass kg	Unit No.		Dimension mm inch			Mass kg											
d ₁	L							A	J		N		A ₁	A ₂		A ₀ ¹⁾	B ₁ ¹⁾		d _e (min.)	Open Type	Closed Type	A _s	Open Type	Closed Type	A _c				
50	1 7/8	7 9/32	2 1/16	5 33/64	29/32	25/32	1 3/16	2 17/32	2 5/16	—	3/4	UKF311	F311	UK311	HS2311X H2311X HE2311X	5.9	71.6	45.0	13.2	—	—	—	—	—	—	—	—	—	
	2	185	52	140	23	20	30	64	59	—	M20					5.9				—	—	—	—	—	—	—	—	—	—
55	2 1/8	6 7/8	1 7/8	5 5/8	3/4	23/32	1 9/64	2 5/16(2 19/32)	1 27/32(2 7/16)	2 23/32	5/8	UKF212	F212	UK212	HS312X(HS2312X) H312X(H2313X)	4.1	52.4	36.2	14.4	—	—	—	—	—	—	—	—	—	
	2 1/8	175	48	143	19	18	29	58.5(65.5)	47(62)	69	M16					4.1				UKF212C	UKF212D	73	2 7/8	4.1	UKF212FC	UKF212FD	86	3 3/8	4.9
	2 1/8	7 3/8	2 5/16	5 55/64	3/4	13/16	1 11/32	2 9/16	2 7/16	2 23/32	5/8	UKFX12	FX12	UKX12	H2312X H2312X	5.5	57.2	40.1	14.4	—	—	—	—	—	—	—	—	—	
	2 1/8	187	59	149	19	21	34	65	62	69	M16					5.5				UKFX12C	UKFX12D	78	3 1/16	5.5	—	—	—	—	—
60	2 1/8	7 11/16	2 7/32	5 29/32	29/32	7/8	1 19/64	2 3/4	2 7/16	—	3/4	UKF312	F312	UK312	HS2312X H2312X	6.8	81.9	52.2	13.2	—	—	—	—	—	—	—	—	—	
	2 1/8	195	56	150	23	22	33	69.5	62	—	M20					6.8				—	—	—	—	—	—	—	—	—	—
	2 1/4	7 3/8	1 31/32	5 55/64	3/4	7/8	1 3/16	2 7/16(2 21/32)	1 31/32(2 9/16)	2 29/32	5/8	UKF213	F213	UK213	HE313X(HE2313X) H313X(H2313X) HS313X(HS2313X)	5.1	57.2	40.1	14.4	—	—	—	—	—	—	—	—		
	2 3/8	187	50	149	19	22	30	62(67.5)	50(65)	74	M16					5.1				UKF213C	UKF213D	74	2 29/32	5.1	UKF213FC	UKF213FD	87	3 7/16	6.0
60	2 1/4	7 3/8	2 5/16	5 55/64	3/4	13/16	1 11/32	2 11/16	2 9/16	2 29/32	5/8	UKFX13	FX13	UKX13	HE2313X H2313X HS2313X	6.0	62.2	44.1	14.5	—	—	—	—	—	—	—	—	—	
	2 3/8	187	59	149	19	21	34	68	65	74	M16					6.0				UKFX13C	UKFX13D	83	3 9/32	6.0	—	—	—	—	—
	2 1/4	8 3/16	2 9/32	6 17/32	29/32	7/8	1 19/64	2 13/16	2 9/16	—	3/4	UKF313	F313	UK313	HE2313X H2313X HS2313X	7.9	92.7	59.9	13.2	—	—	—	—	—	—	—	—		
	2 3/8	208	58	166	23	22	33	71.5	65	—	M20					7.9				UKF313C	UKF313D	94	3 11/16	9.0					
65	2 1/2	7 7/8	2 7/32	6 17/64	3/4	7/8	1 11/32	2 23/32(2 15/16)	2 5/32(2 7/8)	3 11/32	5/8	UKF215	F215	UK215	HE315X(HE2315X) H315X(H2315X)	6.5	67.4	48.3	14.5	—	—	—	—	—	—	—	—		
	2 1/2	200	56	159	19	22	34	69(74.5)	55(73)	85	M16					6.5				UKF215C	UKF215D	83	3 9/32	6.5	UKF215FC	UKF215FD	96	3 25/32	7.5
	2 1/2	7 3/4	2 11/16	5 63/64	29/32	15/16	1 9/16	3	2 7/8	3 11/32	3/4	UKFX15	FX15	UKX15	HE2315X H2315X	8.1	72.7	53.0	14.6	—	—	—	—	—	—	—	—		
	2 1/2	197	68	152	23	24	40	76	73	85	M20					8.1				UKFX15C	UKFX15D	94	3 11/16	8.1	—	—	—	—	—
70	2 1/2	9 9/32	2 19/32	7 1/4	63/64	31/32	1 17/32	3 7/32	2 7/8	—	7/8	UKF315	F315	UK315	HE2315X H2315X	11.7	113	77.2	13.2	—	—	—	—	—	—	—	—		
	2 3/4	236	66	184	25	25	39	81.5	73	—	M22					11.7				UKF315C	UKF315D	106	4 3/16	13.1					
	2 3/4	8 3/16	2 9/32	6 1/2	29/32	7/8	1 11/32	2 27/32(3 3/32)	2 5/16(3 1/16)	3 17/32	3/4	UKF216	F216	UK216	HE316X(HE2316X) H316X(H2316X)	7.6	72.7	53.0	14.6	—	—	—	—	—	—	—	—		
	2 3/4	208	58	165	23	22	34	72(78.5)	59(78)	90	M20					7.6				UKF216C	UKF216D	88	3 15/32	7.6	UKF216FC	UKF216FD	103	4 1/16	8.9
70	2 3/4	8 7/16	2 3/4	6 47/64	29/32	15/16	1 9/16	3 1/8	3 1/16	3 17/32	3/4	UKFX16	FX16	UKX16	HE2316X H2316X	9.5	84.0	61.9	14.5	—	—	—	—	—	—	—	—		
	2 3/4	214	70	171	23	24	40	79	78	90	M20					9.5				UKFX16C	UKFX16D	96	3 25/32	9.5	—	—	—	—	—
	2 3/4	9 27/32	2 11/16	7 23/32	1 7/32	1 1/16	1 1/2	3 1/4	3 1/16	—	1	UKF316	F316	UK316	HE2316X H2316X	12.9	123	86.7	13.3	—	—	—	—	—	—	—	—		
	2 3/4	250	68	196	31	27	38	82.5	78	—	M27					12.9				UKF316C	UKF316D	107	4 7/32	14.5					
75	3	8 21/32	2 15/32	6 57/64	29/32	15/16	1 13/32	3(3 1/4)	2 15/32(3 7/32)	3 25/32	3/4	UKF217	F217	UK217	H317X(H2317X) HE317X(HE2317X)	9.0	84.0	61.9	14.5	UKF217C	UKF217D	92	3 5/8	9.0	UKF217FC	UKF217FD	107	4 7/32	10.4
	3	220	63	175	23	24	36	76(82.5)	63(82)	96	M20					9.0				—	—	—	—	—	—	—	—	—	—
	3	8 7/16	2 3/4	6 47/64	29/32	15/16	1 9/16	3 7/32	3 7/32	3 25/32	3/4	UKFX17	FX17	UKX17	H2317X HE2317X	10.4	96.1	71.5	14.5	UKFX17C	UKFX17D	101	3 31/32	10.4	—	—	—	—	
	3	214	70	171	23	24	40	82	82	96	M20					10.4				—	—	—	—	—	—	—	—	—	—
80	3	10 1/4	2 29/32	8 1/32	1 7/32	1 1/16	1 47/64	3 5/8	3 7/32	—	1	UKF317	F317	UK317	H2317X HE2317X	15.2	133	96.8	13.3	—	—	—	—	—	—	—	—	—	
	3	260	74	204	31	27	44	92	82	—	M27					15.2				—	—	—	—	—	—	—	—	—	—
	—	9 1/4	2 11/16	7 23/64	29/32	31/32	1 9/16	3 7/32(3 17/32)	2 9/16(3 3/8)	4 1/32	3/4	UKF218	F218	UK218	H318X(H2318X)	11.4	96.1	71.5	14.5	UKF218C	UKF218D	101	3 31/32	11.4	UKF218FC	UKF218FD	116	4 9/16	13.0
	—	235	68	187	23	25	40	82(89.5)	65(86)	102	M20					11.4				—	—	—	—	—	—	—	—	—	—
85	—	8 7/16	3	6 47/64	29/32	15/16	1 49/64	3 15/32	3 3/8	4 1/32	3/4	UKFX18	FX18	UKX18	H2318X	11.4	109	81.9	14.4	—	—	—	—	—	—	—	—	—	
	—	214	76	171	23	24	45	88	86	102	M20					11.4				—	—	—	—	—	—	—	—	—	—
	—	11 1/32	3	8 1/2	1 3/8	1 3/16	1 47/64	3 5/8	3 3/8	—	1 1/8	UKF318	F318	UK318	H2318X	19.0	143	107	13.3	—	—	—	—	—	—	—	—		
	—	280	76	216	35	30	44	92	86	—	M30					19.0				—	—	—	—	—	—	—	—	—	—
90	3 1/4	11 13/32	3 11/16	8 31/32	1 3/8	1 3/16	2 21/64	4 3/8	3 17/32	—	1 1/8	UKF319	F319	UK319	HE2319X H2319X	21.9	153	119	13.3	—	—	—	—	—	—	—	—		
	3 1/2	290	94	228	35	30	59	111	90	—	M30					21.9				—	—	—	—	—	—	—	—	—	—
90	3 1/2	10 9/16	3 13/16	8 5/16	1 7/32	1 3/32	2 21/64	4 3/16	3 13/16	4 13/32	1	UKFX20	FX20	UKX20	HE2320X H2320X	18.4	133	105	14.4	—	—	—	—	—	—	—	—		
	3 1/2	268	97	211	31	28	59	106	97	112	M27					18.4				—	—	—	—	—	—	—	—	—	—

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~X20, 309~328

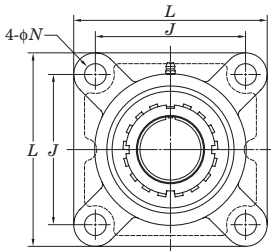
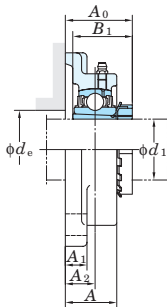
3. In Part No. of unit with adapters and bearing with adapters, Part No. of applicable adapter follow the Part No. shown in the dimensional tables.
(Example of Part No. : UKF206J + H306X, UK206 + H306X)

4. As for the triple seal type product (205 is the double seal type product), accessory code L3 (L2) follows the Part No. of unit or bearing.
(Example of Part No. : UKF206JL3 + H2306X, UK206L3 + H2306X)

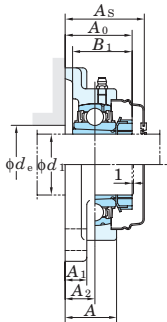
5. For the dimensions and forms of applicable bearings and adapters, see the dimensional tables of ball bearing for unit and adapter.

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

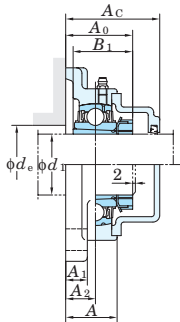
UKF
Tapered bore (with adapter)
 d_1 (90) ~ 125 mm



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.			Unit: mm	
			ΔA_{2s}	X
F205~F210	FX05~FX10	F305~F310	±0.5	0.7
F211~F218	FX11~FX20	F311~F328	±0.8	1

Variations of tolerance of bolt hole diameter (ΔN_s)

Housing No.			Unit: mm	
			ΔN_s	
F205~F218	FX05~FX18	F305~F315	±0.2	
	FX20	F316~F328	±0.3	

Shaft Dia. mm inch		Dimensions inch mm								Bolt Size inch mm	Standard			Adapter ¹⁾ No.	Mass kg	Basic Load Ratings kN		Factor f_0	With Pressed Steel Cover				With Cast Iron Cover			
											Unit No.	Housing No.	Bearing No.			C_r	C_{0r}		Unit No.		Dimension mm inch	Mass kg	Unit No.		Dimension mm inch	Mass kg
d_1		L	A	J	N	A ₁	A ₂	A ₀ ¹⁾	B ₁ ¹⁾	d_e (min.)									Open Type	Closed Type	A_s		Open Type	Closed Type	A_c	
90	3 1/2	12 7/32	3 11/16	9 17/32	1 1/2	1 1/4	2 21/64	4 7/16	3 13/16	—	1 1/4	UKF320	F320	UK320	HE2320X	25.4	173 141	13.2	—	—	—	—	—	—	—	—
		310	94	242	38	32	59	113	97	—	M33				H2320X	25.4							UKF320C	UKF320D	146 5 3/4	28.5
100	4	13 3/8	3 25/32	10 15/32	1 39/64	1 3/8	2 23/64	4 23/32	4 1/8	—	1 3/8	UKF322	F322	UK322	H2322X	35.2	205 180	13.2	—	—	—	—	—	—	—	—
		340	96	266	41	35	60	120	105	—	M36				HE2322X	35.2							—	—	—	—
110	—	14 9/16	4 11/32	11 27/64	1 39/64	1 9/16	2 9/16	5 1/8	4 13/32	—	1 3/8	UKF324	F324	UK324	H2324	47.6	207 185	13.5	—	—	—	—	—	—	—	—
		370	110	290	41	40	65	130.5	112	—	M36												UKF324C	UKF324D	163 6 13/32	52.7
115	4 1/2	16 5/32	4 17/32	12 19/32	1 39/64	1 25/32	2 9/16	5 3/16	4 3/4	—	1 3/8	UKF326	F326	UK326	HE2326	65.3	229 214	13.6	—	—	—	—	—	—	—	—
		410	115	320	41	45	65	131.5	121	—	M36				H2326	65.3							UKF326C	UKF326D	172 6 25/32	71.9
125	—	17 23/32	4 29/32	13 25/32	1 39/64	2 5/32	2 61/64	5 13/16	5 5/32	—	1 3/8	UKF328	F328	UK328	H2328	74.9	253 246	13.6	—	—	—	—	—	—	—	—
		450	125	350	41	55	75	147.5	131	—	M36												UKF328C	UKF328D	186 7 5/16	83.5

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~X20, 309~328

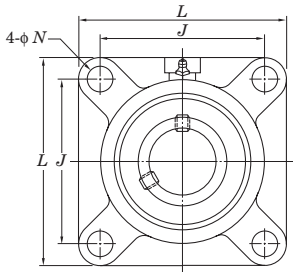
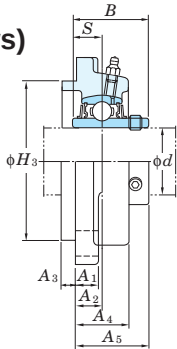
3. In Part No. of unit with adapters and bearing with adapters, Part No. of applicable adapter follow the Part No. shown in the dimensional tables.
(Example of Part No. : UKF206J + H306X, UK206 + H306X)

4. As for the triple seal type product (205 is the double seal type product), accessory code L3 (L2) follows the Part No. of unit or bearing.
(Example of Part No. : UKF206JL3 + H2306X, UK206L3 + H2306X)

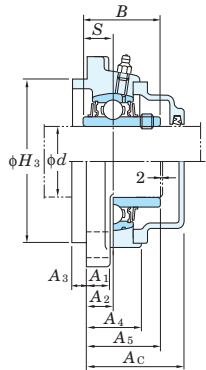
5. For the dimensions and forms of applicable bearings and adapters, see the dimensional tables of ball bearing for unit and adapter.

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

UCFS
Cylindrical bore (with set screws)
d 25 ~ 140 mm



With Cast Iron Cover



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

Unit: mm				
Housing No.	ΔH_{3s}	ΔA_{2s}	X	Y
FS305	0 -0.046	±0.5	0.7	0.2
FS306-FS308	0 -0.054			
FS309-FS310	0 -0.063	±0.8	1	0.3 -FS318 FS319-
FS311-FS313				
FS314-FS319	0.4			
FS320-FS322				
FS324-FS328				

Variations of tolerance of bolt hole diameter (ΔN_s)

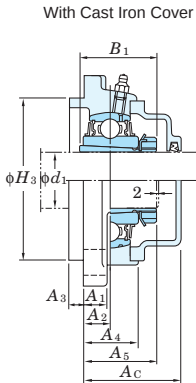
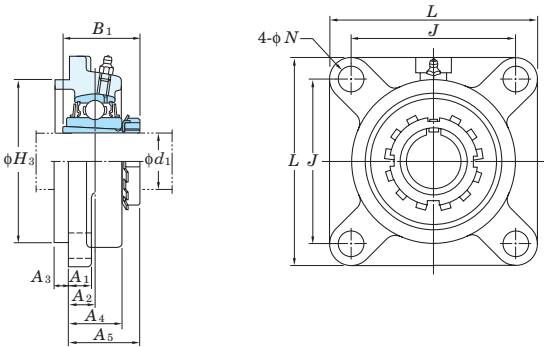
Unit: mm	
Housing No.	ΔN_s
FS305~315	±0.2
FS316~328	±0.3

Shaft Dia. mm inch		Dimensions inch mm											Bolt Size inch mm	Standard				Mass kg	Basic Load Ratings kN		Factor f ₀	With Cast Iron Cover			
		Unit No.	Housing No.	Bearing No.	C _r	C _{0r}	Unit No.		Dimension mm inch		Mass kg														
d	L						H ₃	J	N	A ₁		A ₂	A ₃	A ₄	A ₅	B	S	UCFS305 UCFS305-16	FS305	UC305 UC305-16	UCFS305C	UCFS305D	A _e		
25	1	4 11/32 110	3.1496 80	3 5/32 80	5/8 16	1/2 13	23/64 9	9/32 7	7/8 22	1 1/4 32	1.496 38	0.591 15	1/2 M14	UCFS305 UCFS305-16	FS305	UC305 UC305-16	1.4 1.4	21.2	10.9	12.6	UCFS305C —	UCFS305D —	47 —	1 27/32 —	1.7 —
30	—	4 29/32 125	3.5433 90	3 47/64 95	5/8 16	19/32 15	25/64 10	5/16 8	15/16 24	1 13/32 36	1.693 43	0.669 17	1/2 M14	UCFS306	FS306	UC306	1.9	26.7	15.0	13.3	UCFS306C	UCFS306D	51	2	2.2
35	—	5 5/16 135	3.9370 100	3 15/16 100	3/4 19	5/8 16	7/16 11	23/64 9	1 1/16 27	1 9/16 40	1.890 48	0.748 19	5/8 M16	UCFS307	FS307	UC307	2.3	33.4	19.3	13.2	UCFS307C	UCFS307D	55	2 5/32	2.7
40	1 1/2	5 29/32 150	4.5276 115	4 13/32 112	3/4 19	21/32 17	33/64 13	25/64 10	1 3/16 30	1 13/16 46	2.047 52	0.748 19	5/8 M16	UCFS308-24 UCFS308	FS308	UC308-24 UC308	3.4 3.4	40.7	24.0	13.2	— UCFS308C	— UCFS308D	— 61	— 2 13/32	— 3.9
45	1 3/4	6 5/16 160	4.9213 125	4 59/64 125	3/4 19	23/32 18	35/64 14	7/16 11	1 5/16 33	1 15/16 49	2.244 57	0.866 22	5/8 M16	UCFS309-28 UCFS309	FS309	UC309-28 UC309	4.4 4.4	48.9	29.5	13.3	— UCFS309C	— UCFS309D	— 65	— 2 9/16	— 5.0
50	—	6 7/8 175	5.5118 140	5 13/64 132	29/32 23	3/4 19	5/8 16	15/32 12	1 13/32 36	2 5/32 55	2.402 61	0.866 22	3/4 M20	UCFS310	FS310	UC310	5.3	62.0	38.3	13.2	UCFS310C	UCFS310D	71	2 25/32	6.1
55	2 2 3/16	7 9/32 185	5.9055 150	5 33/64 140	29/32 23	25/32 20	43/64 17	33/64 13	1 17/32 39	2 9/32 58	2.598 66	0.984 25	3/4 M20	UCFS311-32 UCFS311 UCFS311-35	FS311	UC311-32 UC311 UC311-35	6.1 6.1 6.1	71.6	45.0	13.2	— UCFS311C	— UCFS311D	— 74	— 2 29/32	— 7.0
60	2 7/16	7 11/16 195	6.2992 160	5 29/32 150	29/32 23	7/8 22	3/4 19	35/64 14	1 21/32 42	2 17/32 64	2.795 71	1.024 26	3/4 M20	UCFS312 UCFS312-39	FS312	UC312 UC312-39	7.4 7.4	81.9	52.2	13.2	UCFS312C	UCFS312D	81	3 3/16	8.6
65	2 1/2	8 3/16 208	6.8898 175	6 17/32 166	29/32 23	7/8 22	19/32 15	45/64 18	1 9/16 40	2 3/8 60	2.953 75	1.181 30	3/4 M20	UCFS313-40 UCFS313	FS313	UC313-40 UC313	8.8 8.8	92.7	59.9	13.2	— UCFS313C	— UCFS313D	— 76	— 3	— 9.9
70	2 3/4	8 29/32 226	7.2835 185	7 1/64 178	63/64 25	31/32 25	45/64 18	45/64 18	1 11/16 43	2 15/32 63	3.071 78	1.299 33	7/8 M22	UCFS314-44 UCFS314	FS314	UC314-44 UC314	11.2 11.2	104	68.2	13.2	— UCFS314C	— UCFS314D	— 80	— 3 5/32	— 12.3
75	2 15/16 3	9 9/32 236	7.8740 200	7 1/4 184	63/64 25	31/32 25	53/64 21	45/64 18	1 7/8 48	2 25/32 71	3.228 82	1.260 32	7/8 M22	UCFS315-47 UCFS315 UCFS315-48	FS315	UC315-47 UC315 UC315-48	13.7 13.7 13.7	113	77.2	13.2	— UCFS315C	— UCFS315D	— 88	— 3 15/32	— 15.0
80	—	9 27/32 250	8.2677 210	7 23/32 196	1 7/32 31	1 1/16 27	45/64 18	25/32 20	1 7/8 48	2 3/4 70	3.386 86	1.339 34	1 M27	UCFS316	FS316	UC316	15.1	123	86.7	13.3	UCFS316C	UCFS316D	87	3 7/16	16.5
85	—	10 1/4 260	8.6614 220	8 1/32 204	1 7/32 31	1 1/16 27	15/16 24	25/32 20	2 1/8 54	3 5/32 80	3.780 96	1.575 40	1 M27	UCFS317	FS317	UC317	17.3	133	96.8	13.3	UCFS317C	UCFS317D	97	3 13/16	18.9
90	3 1/2	11 1/32 280	9.4488 240	8 1/2 216	1 3/8 35	1 3/16 30	15/16 24	25/32 20	2 7/32 56	3 5/32 80	3.780 96	1.575 40	1 1/8 M30	UCFS318-56 UCFS318	FS318	UC318-56 UC318	21.3 21.3	143	107	13.3	— UCFS318C	— UCFS318D	— 99	— 3 29/32	— 23.2
95	—	11 13/32 290	9.8425 250	8 31/32 228	1 3/8 35	1 3/16 30	1 17/32 39	25/32 20	2 29/32 74	3 31/32 101	4.055 103	1.614 41	1 1/8 M30	UCFS319	FS319	UC319	24.5	153	119	13.3	UCFS319C	UCFS319D	120	4 23/32	26.7
100	3 15/16 4	12 7/32 310	10.2362 260	9 17/32 242	1 1/2 38	1 1/4 32	1 17/32 39	25/32 20	2 29/32 74	4 1/8 105	4.252 108	1.654 42	1 1/4 M33	UCFS320 UCFS320-63 UCFS320-64	FS320	UC320 UC320-63 UC320-64	29.5 29.5 29.5	173	141	13.2	UCFS320C —	UCFS320D —	126 —	4 31/32 —	32.3 —
105	—	12 7/32 310	10.2362 260	9 17/32 242	1 1/2 38	1 1/4 32	1 17/32 39	25/32 20	2 29/32 74	4 7/32 107	4.409 112	1.732 44	1 1/4 M33	UCFS321	FS321	UC321	32.7	184	153	13.2	UCFS321C	UCFS321D	128	5 1/32	35.7
110	—	13 3/8 340	11.8110 300	10 15/32 266	1 39/64 41	1 3/8 35	1 3/8 35	63/64 25	2 25/32 71	4 3/16 106	4.606 117	1.811 46	1 3/8 M36	UCFS322	FS322	UC322	39.0	205	180	13.2	UCFS322C	UCFS322D	129	5 3/32	42.4
120	—	14 9/16 370	12.9921 330	11 27/64 290	1 39/64 41	1 9/16 40	1 3/8 35	1 3/16 30	3 5/32 80	4 11/32 110	4.961 126	2.008 51	1 3/8 M36	UCFS324	FS324	UC324	50.6	207	185	13.5	UCFS324C	UCFS324D	133	5 1/4	55.4
130	—	16 5/32 410	14.1732 360	12 19/32 320	1 39/64 41	1 25/32 45	1 3/8 35	1 3/16 30	3 11/32 85	4 9/16 116	5.315 135	2.126 54	1 3/8 M36	UCFS326	FS326	UC326	67.7	229	214	13.6	UCFS326C	UCFS326D	142	5 29/32	73.8
140	—	17 23/32 450	15.7480 400	13 25/32 350	1 39/64 41	2 5/32 55	1 49/64 45	1 3/16 30	3 3/4 95	5 5/32 131	5.709 145	2.323 59	1 3/8 M36	UCFS328	FS328	UC328	94.0	253	246	13.6	UCFS328C	UCFS328D	156	6 5/32	102

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 305~308
A-R1/8 309~328

3. As for the triple seal type product, accessory code L3 follows the Part No. of unit or bearing.
(Example of Part No. : UCFS307JL3, UC307L3)
4. 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.

UKFS
Tapered bore (with adapter)
d₁ 20 ~ 125 mm



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

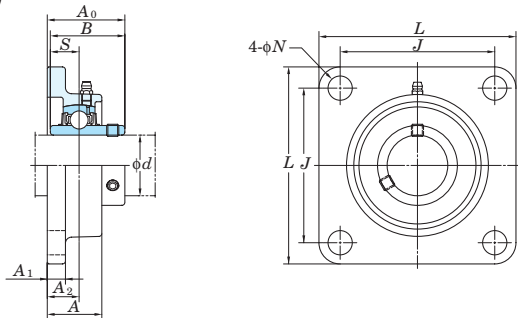
Unit: mm				
Housing No.	ΔH_{3s}	ΔA_{2s}	X	Y
FS305	0 -0.046	±0.5	0.7	0.2
FS306~FS308	0 -0.054			
FS309~FS310	0 -0.063	±0.8	1	0.3
FS311~FS313	0 -0.072			~FS318 FS319~
FS315~FS319	0 -0.081			0.4
FS320~FS322	0 -0.089			
FS324~FS328	0 -0.089			

Variations of tolerance of bolt hole diameter (ΔN_s)

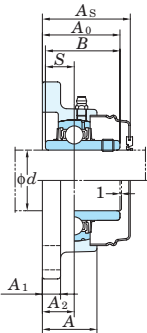
Unit: mm	
Housing No.	ΔN_s
FS305~315	±0.2
FS316~328	±0.3

Shaft Dia. mm inch		Dimensions inch mm										Bolt Size inch mm	Standard				Adapter No.	Mass kg	Basic Load Ratings kN		Factor <i>f</i> ₀	With Cast Iron Cover				
													Unit No.	Housing No.	Bearing No.	Unit No.						Dimension		Mass		
		Open Type	Closed Type	mm	inch	mm	inch	kg																		
<i>d</i> ₁		<i>L</i>	<i>H</i> ₃	<i>J</i>	<i>N</i>	<i>A</i> ₁	<i>A</i> ₂	<i>A</i> ₃	<i>A</i> ₄	<i>A</i> ₅	<i>B</i> ₁					<i>C</i> _r	<i>C</i> _{0r}									
20	3/4	4 11/32 110	3.1496 80	3 5/32 80	5/8 16	1/2 13	23/64 9	9/32 7	7/8 22	1 3/16 30.5	1 3/8 35	1/2 M14	UKFS305	FS305	UK305		HE2305X H2305X 1.4 1.4	21.2	10.9	12.6	— UKFS305C	— UKFS305D	— 47	— 1 27/32	— 1.7	
25	1	4 29/32 125	3.5433 90	3 47/64 95	5/8 16	19/32 15	25/64 10	5/16 8	15/16 24	1 5/16 33	1 1/2 38	1/2 M14	UKFS306	FS306	UK306		H2306X HE2306X 1.9 1.9	26.7	15.0	13.3	UKFS306C —	UKFS306D —	51 —	2 —	2.2 —	
30	1 1/8	5 5/16 135	3.9370 100	3 15/16 100	3/4 19	5/8 16	7/16 11	23/64 9	1 1/16 27	1 7/16 36.5	1 11/16 43	5/8 M16	UKFS307	FS307	UK307		HS2307X H2307X 2.4 2.4	33.4	19.3	13.2	— UKFS307C	— UKFS307D	— 55	— 2 5/32	— 2.9	
35	1 1/4 1 3/8	5 29/32 150	4.5276 115	4 13/32 112	3/4 19	21/32 17	33/64 13	25/64 10	1 3/16 30	1 19/32 40.5	1 13/16 46	5/8 M16	UKFS308	FS308	UK308		HE2308X HS2308X H2308X 3.4 3.4 3.4	40.7	24.0	13.2	— — UKFS308C	— — UKFS308D	— — 61	— — 2 13/32	— — 3.9	
40	1 1/2	6 5/16 160	4.9213 125	4 59/64 125	3/4 19	23/32 18	35/64 14	7/16 11	1 5/16 33	1 23/32 44	1 31/32 50	5/8 M16	UKFS309	FS309	UK309		HE2309X H2309X 4.4 4.4	48.9	29.5	13.3	— UKFS309C	— UKFS309D	— 65	— 2 9/16	— 5.0	
45	1 3/4	6 7/8 175	5.5118 140	5 13/64 132	29/32 23	3/4 19	5/8 16	15/32 12	1 13/32 36	1 7/8 48	2 5/32 55	3/4 M20	UKFS310	FS310	UK310		HE2310X H2310X 5.3 5.3	62.0	38.3	13.2	— UKFS310C	— UKFS310D	— 71	— 2 25/32	— 6.1	
50	1 7/8 2	7 9/32 185	5.9055 150	5 33/64 140	29/32 23	25/32 20	43/64 17	33/64 13	1 17/32 39	2 51	2 5/16 59	3/4 M20	UKFS311	FS311	UK311		HS2311X H2311X HE2311X 6.3 6.3 6.3	71.6	45.0	13.2	— UKFS311C	— UKFS311D	— 74	— 2 29/32	— 7.2	
55	2 1/8	7 11/16 195	6.2992 160	5 29/32 150	29/32 23	7/8 22	3/4 19	35/64 14	1 21/32 42	2 3/16 55.5	2 7/16 62	3/4 M20	UKFS312	FS312	UK312		HS2312X H2312X 7.3 7.3	81.9	52.2	13.2	— UKFS312C	— UKFS312D	— 81	— 3 3/16	— 8.5	
60	2 1/4 2 3/8	8 3/16 208	6.8898 175	6 17/32 166	29/32 23	7/8 22	19/32 15	45/64 18	1 9/16 40	2 3/32 53.5	2 9/16 65	3/4 M20	UKFS313	FS313	UK313		HE2313X H2313X HS2313X 8.9 8.9 8.9	92.7	59.9	13.2	— UKFS313C	— UKFS313D	— 76	— 3	— 10.0	
65	2 1/2	9 9/32 236	7.8740 200	7 1/4 184	63/64 25	31/32 25	53/64 21	45/64 18	1 7/8 48	2 1/2 63.5	2 7/8 73	7/8 M22	UKFS315	FS315	UK315		HE2315X H2315X 13.4 13.4	113	77.2	13.2	— UKFS315C	— UKFS315D	— 88	— 3 15/32	— 14.8	
70	2 3/4	9 27/32 250	8.2677 210	7 23/32 196	1 7/32 31	1 1/16 27	45/64 18	25/32 20	1 7/8 48	2 15/32 62.5	3 1/16 78	1 M27	UKFS316	FS316	UK316		HE2316X H2316X 15.1 15.1	123	86.7	13.3	— UKFS316C	— UKFS316D	— 87	— 3 7/16	— 16.7	
75	3	10 1/4 260	8.6614 220	8 1/32 204	1 7/32 31	1 1/16 27	15/16 24	25/32 20	2 1/8 54	2 27/32 72	3 7/32 82	1 M27	UKFS317	FS317	UK317		H2317X HE2317X 17.1 17.1	133	96.8	13.3	UKFS317C —	UKFS317D —	97 —	3 13/16 —	18.9 —	
80	—	11 1/32 280	9.4488 240	8 1/2 216	1 3/8 35	1 3/16 30	15/16 24	25/32 20	2 7/32 56	2 27/32 72	3 3/8 86	1 1/8 M30	UKFS318	FS318	UK318		H2318X 21.4	143	107	13.3	UKFS318C —	UKFS318D —	99 —	3 29/32 —	23.5 —	
85	3 1/4	11 13/32 290	9.8425 250	8 31/32 228	1 3/8 35	1 3/16 30	1 17/32 39	25/32 20	2 29/32 74	2 19/32 91	3 17/32 90	1 1/8 M30	UKFS319	FS319	UK319		HE2319X H2319X 24.8 24.8	153	119	13.3	UKFS319C —	UKFS319D —	120 —	4 23/32 —	26.2 —	
90	3 1/2	12 7/32 310	10.2362 260	9 17/32 242	1 1/2 38	1 1/4 32	1 17/32 39	25/32 20	2 29/32 74	2 21/32 93	3 13/16 97	1 1/4 M33	UKFS320	FS320	UK320		HE2320X H2320X 29.1 29.1	173	141	13.2	UKFS320C —	UKFS320D —	126 —	4 31/32 —	32.2 —	
100	4	13 3/8 340	11.8110 300	10 15/32 266	1 39/64 41	1 3/8 35	1 3/8 35	63/64 25	2 25/32 71	2 3/4 95	4 1/8 105	1 3/8 M36	UKFS322	FS322	UK322		H2322X HE2322X 38.6 38.6	205	180	13.2	UKFS322C —	UKFS322D —	129 —	5 3/32 —	42.1 —	
110	—	14 9/16 370	12.9921 330	11 27/64 290	1 39/64 41	1 9/16 40	1 3/8 35	1 3/16 30	3 5/32 80	3 21/32 100.5	4 13/32 112	1 3/8 M36	UKFS324	FS324	UK324		H2324 50.9	207	185	13.5	UKFS324C —	UKFS324D —	133 —	5 1/4 —	56.0 —	
115	4 1/2	16 5/32 410	14.1732 360	12 19/32 320	1 39/64 41	1 25/32 45	1 3/8 35	1 3/16 30	3 11/32 85	4 101.5	4 3/4 121	1 3/8 M36	UKFS326	FS326	UK326		HE2326 H2326 67.5 67.5	229	214	13.6	— UKFS326C	— UKFS326D	— 142	— 5 29/32	— 74.1	
125	—	17 23/32 450	15.7480 400	13 25/32 350	1 39/64 41	2 5/32 55	1 49/64 45	1 3/16 30	3 3/4 95	4 5/8 117.5	5 5/32 131	1 3/8 M36	UKFS328	FS328	UK328		H2328 94.0	253	246	13.6	UKFS328C —	UKFS328D —	156 —	6 5/32 —	102 —	

UCSF-H1S6
Cylindrical bore (with set screws)
d 20 ~ 60 mm



With Pressed Stainless Steel 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}	Unit: mm
SF204H1~210H1	± 0.5	0.7
SF211H1~212H1	± 0.8	1

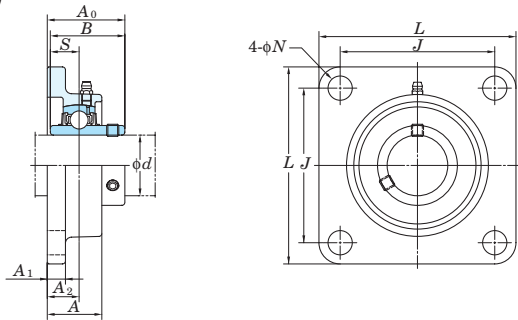
Variations of tolerance of bolt hole diameter (ΔN_s)

Housing No.	ΔN_s	Unit: mm
SF204H1~212H1	± 0.2	

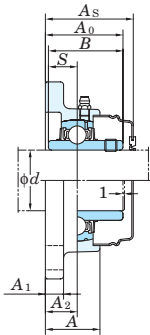
Shaft Dia. mm inch		Dimensions inch mm									Bolt Size inch mm	Standard				Mass kg	Basic Load Ratings kN		Factor f ₀	With Pressed Stainless Steel Cover				
		Unit No.	Housing No.	Bearing No.		Open Type	Closed Type	Dimension mm inch		Mass kg														
d	L							A	J		N	A ₁	A ₂	A ₀	B	S	UCSF204-12H1S6 UCSF204H1S6	SF204H1	UC204-12S6 UC204S6	C _r	C _{0r}	UCSF204H1CS6	UCSF204H1DS6	A _s
20	3/4	3 3/8 86	1 1/32 26	2 33/64 64	15/32 12	13/32 10	19/32 15	1 5/16 33.3	1.220 31	0.500 12.7	3/8 M10	UCSF204-12H1S6 UCSF204H1S6	SF204H1	UC204-12S6 UC204S6	0.66	10.9	5.35	13.2	— UCSF204H1CS6	— UCSF204H1DS6	— 38	— 1 1/2	— 0.66	
25	7/8 15/16	3 3/4 95	1 3/32 27.5	2 3/4 70	15/32 12	13/32 10	5/8 16	1 13/32 35.8	1.343 34.1	0.563 14.3	3/8 M10	UCSF205-14H1S6 UCSF205-15H1S6 UCSF205H1S6 UCSF205-16H1S6	SF205H1	UC205-14S6 UC205-15S6 UC205S6 UC205-16S6	0.85	11.9	6.3	13.9	— UCSF205H1CS6	— UCSF205H1DS6	— 40	— 1 9/16	— 0.85	
	1 1/8											UCSF206-18H1S6 UCSF206H1S6 UCSF206-19H1S6 UCSF206-20H1S6	SF206H1	UC206-18S6 UC206S6 UC206-19S6 UC206-20S6	1.2	16.5	9.05	13.9	— UCSF206H1CS6	— UCSF206H1DS6	— 45	— 1 25/32	— 1.2	
	1 3/16 1 1/4	4 1/4 108	1 7/32 31	3 17/64 83	15/32 12	13/32 10	45/64 18	1 19/32 40.2	1.500 38.1	0.626 15.9	3/8 M10													
35	1 1/4 1 5/16 1 3/8	4 19/32 117	1 11/32 34	3 5/8 92	35/64 14	7/16 11	3/4 19	1 3/4 44.4	1.689 42.9	0.689 17.5	7/16 M12	UCSF207-20H1S6 UCSF207-21H1S6 UCSF207-22H1S6 UCSF207H1S6 UCSF207-23H1S6	SF207H1	UC207-20S6 UC207-21S6 UC207-22S6 UC207S6 UC207-23S6	1.5	21.8	12.3	13.9	— UCSF207H1CS6	— UCSF207H1DS6	— 49	— 1 15/16	— 1.5	
	1 7/16																							
	1 1/2 1 9/16	5 1/8 130	1 13/32 36	4 1/64 102	5/8 16	15/32 12	53/64 21	2 1/32 51.2	1.937 49.2	0.748 19	1/2 M14	UCSF208-24H1S6 UCSF208-25H1S6 UCSF208H1S6	SF208H1	UC208-24S6 UC208-25S6 UC208S6	2	24.8	14.3	14.0	— UCSF208H1CS6	— UCSF208H1DS6	— 56	— 2 7/32	— 2.0	
45	1 5/8 1 11/16 1 3/4	5 13/32 137	1 1/2 38	4 9/64 105	5/8 16	1/2 13	55/64 22	2 1/16 52.2	1.937 49.2	0.748 19	1/2 M14	UCSF209-26H1S6 UCSF209-27H1S6 UCSF209-28H1S6 UCSF209H1S6	SF209H1	UC209-26S6 UC209-27S6 UC209-28S6 UC209S6	2.3	27.8	16.2	14.0	— UCSF209H1CS6	— UCSF209H1DS6	— 57	— 2 1/4	— 2.3	
	1 7/8 1 15/16	5 5/8 143	1 9/16 40	4 3/8 111	5/8 16	1/2 13	55/64 22	2 5/32 54.6	2.031 51.6	0.748 19	1/2 M14	UCSF210-30H1S6 UCSF210-31H1S6 UCSF210H1S6 UCSF210-32H1S6	SF210H1	UC210-30S6 UC210-31S6 UC210S6 UC210-32S6	2.6	29.8	18.6	14.4	— UCSF210H1CS6	— UCSF210H1DS6	— 59	— 2 5/16	— 2.6	
	2																							
55	2 2 1/8 2 3/16	6 3/8 162	1 11/16 43	5 1/8 130	3/4 19	19/32 15	63/64 25	2 5/16 58.4	2.189 55.6	0.874 22.2	5/8 M16	UCSF211-32H1S6 UCSF211-34H1S6 UCSF211H1S6 UCSF211-35H1S6	SF211H1	UC211-32S6 UC211-34S6 UC211S6 UC211-35S6	4	36.8	23.5	14.4	— UCSF211H1CS6	— UCSF211H1DS6	— 63	— 2 15/32	— 4.0	
	2 1/4																							
	2 3/8 2 7/16	6 7/8 175	1 7/8 48	5 5/8 143	3/4 19	19/32 15	1 9/64 29	2 23/32 68.7	2.563 65.1	1.000 25.4	5/8 M16	UCSF212-36H1S6 UCSF212H1S6 UCSF212-38H1S6 UCSF212-39H1S6	SF212H1	UC212-36S6 UC212S6 UC212-38S6 UC212-39S6	4.7	44.5	29	14.4	— UCSF212H1CS6	— UCSF212H1DS6	— 73	— 2 7/8	— 4.7	

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 the applicable grease fitting is shown below.
A-1/4-28UNFN12204~210
A-R1/8N12211~212
3. For the dimensions and forms of applicable bearings, see the dimensional tables of ball bearing for unit.

UCSF-EH1S6
Cylindrical bore (with set screws)
d 20 ~ 60 mm



With Pressed Stainless Steel Cover



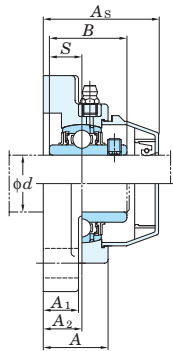
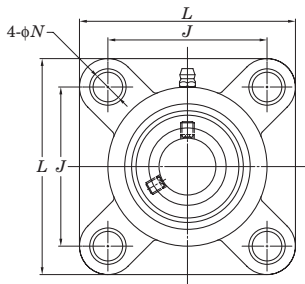
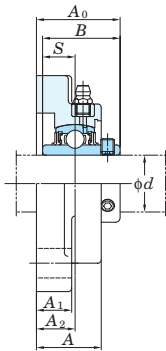
Variations of tolerance of distance from mounting surface to center of spherical bore (ΔA_{2s}) and tolerance of position of bolt hole (X)		
		Unit: mm
Housing No.	ΔA_{2s}	X
SF204EH1~208EH1	± 0.5	0.7
SF211EH1~212EH1	± 0.8	1

Variations of tolerance of bolt hole diameter (ΔN_s)		
		Unit: mm
Housing No.	ΔN_s	
SF204EH1~212EH1	± 0.2	

Shaft Dia. mm inch		Dimensions inch mm									Bolt Size inch	Standard				Mass	Basic Load Ratings kN		Factor	With Pressed Stainless Steel Cover				
d		L	A	J	N	A_1	A_2	A_0	B	S		Unit No.	Housing No.	Bearing No.		kg	C_r	C_{0r}	f_0	Unit No. Open Type Closed Type		Dimension mm inch		Mass
																						A_s	kg	
20	3/4	3 3/8 86	1 1/32 26	2 33/64 64	7/16 11	13/32 10	19/32 15	1 5/16 33.3	1.220 31	0.500 12.7	3/8	UCSF204-12EH1S6 UCSF204EH1S6	SF204EH1	UC204-12S6 UC204S6		0.66	10.9	5.35	13.2	— UCSF204EH1CS6	— UCSF204EH1DS6	— 38	— 1 1/2	— 0.66
25	7/8 15/16 1	Please refer to the UCSF-H1S6.																						
30	1 1/8 1 3/16 1 1/4	4 1/4 108	1 7/32 31	3 17/64 83	33/64 13	13/32 10	45/64 18	1 19/32 40.2	1.500 38.1	0.626 15.9	7/16	UCSF206-18EH1S6 UCSF206EH1S6 UCSF206-19EH1S6 UCSF206-20EH1S6	SF206EH1	UC206-18S6 UC206S6 UC206-19S6 UC206-20S6		1.2	16.5	9.05	13.9	— UCSF206EH1CS6	— UCSF206EH1DS6	— 45	— 1 25/32	— 1.2
35	1 1/4 1 5/16 1 3/8 1 7/16	4 19/32 117	1 11/32 34	3 5/8 92	33/64 13	7/16 11	3/4 19	1 3/4 44.4	1.689 42.9	0.689 17.5	7/16	UCSF207-20EH1S6 UCSF207-21EH1S6 UCSF207-22EH1S6 UCSF207EH1S6 UCSF207-23EH1S6	SF207EH1	UC207-20S6 UC207-21S6 UC207-22S6 UC207S6 UC207-23S6		1.5	21.8	12.3	13.9	— — — UCSF207EH1CS6	— — — UCSF207EH1DS6	— — — 49	— — — 1 15/16	— — — 1.5
40	1 1/2 1 9/16	5 1/8 130	1 13/32 36	4 1/64 102	35/64 14	15/32 12	53/64 21	2 1/32 51.2	1.937 49.2	0.748 19	1/2	UCSF208-24EH1S6 UCSF208-25EH1S6 UCSF208EH1S6	SF208EH1	UC208-24S6 UC208-25S6 UC208S6		2	24.8	14.3	14.0	— — UCSF208EH1CS6	— — UCSF208EH1DS6	— — 56	— — 2 7/32	— — 2.0
45	1 5/8 1 11/16 1 3/4	Please refer to the UCSF-H1S6.																						
50	1 7/8 1 15/16 2																							
55	2 2 1/8 2 3/16	6 3/8 162	1 11/16 43	5 1/8 130	43/64 17	19/32 15	63/64 25	2 5/16 58.4	2.189 55.6	0.874 22.2	5/8	UCSF211-32EH1S6 UCSF211-34EH1S6 UCSF211EH1S6 UCSF211-35EH1S6	SF211EH1	UC211-32S6 UC211-34S6 UC211S6 UC211-35S6		4	30.7	23.5	14.4	— — UCSF211EH1CS6	— — UCSF211EH1DS6	— — 63	— — 2 15/32	— — 4.0
60	2 1/4 2 3/8 2 7/16	6 7/8 175	1 7/8 48	5 5/8 143	43/64 17	19/32 15	1 9/64 29	2 23/32 68.7	2.563 65.1	1.000 25.4	5/8	UCSF212-36EH1S6 UCSF212EH1S6 UCSF212-38EH1S6 UCSF212-39EH1S6	SF212EH1	UC212-36S6 UC212S6 UC212-38S6 UC212-39S6		4.7	31.6	29	14.4	— UCSF212EH1CS6	— UCSF212EH1DS6	— 73	— 2 7/8	— 4.7

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 the applicable grease fitting is shown below.
A-1/4-28UNFN12204~208
A-R1/8N12211~212
3. For the dimensions and forms of applicable bearings, see the dimensional tables of ball bearing for unit.

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



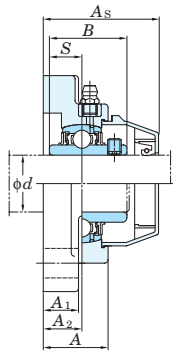
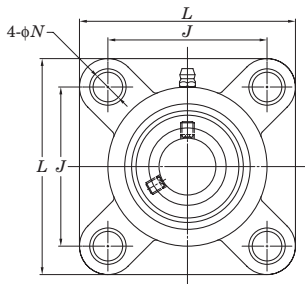
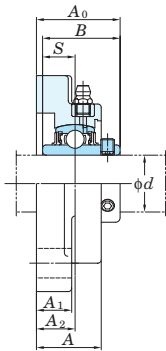
Variations of tolerance of distance from mounting surface to center of spherical bore (ΔA_{2s}) and tolerance of position of bolt hole (X)

Housing No.	Unit: mm	
	ΔA_{2s}	X
VF204~VF208	±0.5	0.7

Shaft Dia. mm inch		Dimensions inch mm										Bolt Size inch mm	Standard				Mass kg	Basic Load Ratings kN		Factor <i>f</i> ₀	With Plastic Cover				Mass kg
		<i>L</i>	<i>A</i>	<i>J</i>	<i>N</i>	<i>A</i> ₁	<i>A</i> ₂	<i>A</i> ₀	<i>B</i>	<i>S</i>	Unit No.		Housing No.	Bearing No.	Open Type	Closed Type		Dimension mm inch							
<i>A</i> _s																									
20	3/4	3 3/8	1 3/32	2 1/2	7/16	17/32	45/64	1 7/16	1.220	0.500	3/8	UCVF204-12S6	VF204	UC204-12S6	0.3	10.9	5.35	13.2	UCVF204-12CS6	UCVF204-12DS6	48	1 7/8	0.31		
		86	27.8	63.5	11	13.4	18	36.3	31	12.7	M10	UCVF204S6							UCVF204CS6	UCVF204DS6					
25	7/8	3 3/4	1 1/8	2 3/4	7/16	5/8	43/64	1 7/16	1.343	0.563	3/8	UCVF205-14S6	VF205	UC205-14S6	0.41	11.9	6.3	13.9	UCVF205-14CS6	UCVF205-14DS6	50.7	2	0.42		
	15/16	95	28.5	70	11	15.5	17	36.8	34.1	14.3	M10	UCVF205-15S6							UCVF205-15CS6	UCVF205-15DS6					
												UCVF205S6							UCVF205CS6	UCVF205DS6					
												UCVF205-16S6							UCVF205-16CS6	UCVF205-16DS6					
30	1 1/8	4 7/32	1 1/4	3 17/64	7/16	9/16	3/4	1 5/8	1.500	0.626	3/8	UCVF206-18S6	VF206	UC206-18S6	0.56	16.5	9.05	13.9	UCVF206-18CS6	UCVF206-18DS6	58.3	1 9/32	0.57		
	1 3/16	107	31.7	83	11	14.5	19.2	41.4	38.1	15.9	M10	UCVF206S6							UCVF206CS6	UCVF206DS6					
												UCVF206-19S6							UCVF206-19CS6	UCVF206-19DS6					
	1 1/4											UCVF206-20S6							UCVF206-20CS6	UCVF206-20DS6					
35	1 1/4	4 21/32	1 11/32	3 5/8	33/64	5/8	27/32	1 27/32	1.689	0.689	1/2	UCVF207-20S6	VF207	UC207-20S6	0.83	21.8	12.3	13.9	UCVF207-20CS6	UCVF207-20DS6	63.7	2 1/2	0.85		
	1 5/16	118	34.5	92	13	15.5	21.5	46.9	42.9	17.5	M12	UCVF207-21S6							UCVF207-21CS6	UCVF207-21DS6					
	1 3/8											UCVF207-22S6							UCVF207-22CS6	UCVF207-22DS6					
												UCVF207S6							UCVF207CS6	UCVF207DS6					
	1 7/16											UCVF207-23S6							UCVF207-23CS6	UCVF207-23DS6					
40	1 1/2	5 1/8	1 7/16	4 1/64	35/64	21/32	29/32	2 3/32	1.937	0.748	1/2	UCVF208-24S6	VF208	UC208-24S6	1.08	24.8	14.3	14.0	UCVF208-24CS6	UCVF208-24DS6	70.7	2 25/32	1.11		
	1 9/16	130	36.5	102	14	17	23	53.2	49.2	19	M12	UCVF208-25S6							UCVF208-25CS6	UCVF208-25DS6					
												UCVF208S6							UCVF208CS6	UCVF208DS6					

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.

UCVF-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
VF204E-VF208E	±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			
		L	A	J	N	A_1	A_2	A_0	B	S		Unit No.	Housing No.	Bearing No.			C_r	C_{0r}		Unit No. Open Type Closed Type	Dimension mm inch	Mass kg	
d		L	A	J	N	A_1	A_2	A_0	B	S													
20	3/4	3 3/8 86	1 3/32 27.8	2 1/2 63.5	7/16 11	17/32 13.4	45/64 18	1 7/16 36.3	1.220 31	0.500 12.7	3/8 M8	UCVF204-12ES7 UCVF204ES7	VF204E	UC204-12S7 UC204S7		0.3	12.8 6.65	13.2	UCVF204-12ECS7 UCVF204ECS7	UCVF204-12EDS7 UCVF204EDS7	48	1 7/8	0.31
	7/8 15/16	3 3/4 95	1 1/8 28.5	2 3/4 70	33/64 13	5/8 15.5	43/64 17	1 7/16 36.8	1.343 34.1	0.563 14.3	7/16 M10	UCVF205-14ES7 UCVF205-15ES7 UCVF205ES7 UCVF205-16ES7	VF205E	UC205-14S7 UC205-15S7 UC205S7 UC205-16S7		0.41	14.0 7.85	13.9	UCVF205-14ECS7 UCVF205-15ECS7 UCVF205ECS7 UCVF205-16ECS7	UCVF205-14EDS7 UCVF205-15EDS7 UCVF205EDS7 UCVF205-16EDS7	50.7	2	0.42
30	1 1/8	4 7/32 107	1 1/4 31.7	3 17/64 83	33/64 13	9/16 14.5	3/4 19.2	1 5/8 41.4	1.500 38.1	0.626 15.9	7/16 M10	UCVF206-18ES7 UCVF206ES7 UCVF206-19ES7 UCVF206-20ES7	VF206E	UC206-18S7 UC206S7 UC206-19S7 UC206-20S7		0.56	19.5 11.3	13.9	UCVF206-18ECS7 UCVF206ECS7 UCVF206-19ECS7 UCVF206-20ECS7	UCVF206-18EDS7 UCVF206EDS7 UCVF206-19EDS7 UCVF206-20EDS7	58.5	1 5/16	0.57
	1 3/16 1 1/4																						
35	1 1/4	4 21/32 118	1 11/32 34.5	3 5/8 92	35/64 14	5/8 15.5	27/32 21.5	1 27/32 46.9	1.689 42.9	0.689 17.5	1/2 M12	UCVF207-20ES7 UCVF207-21ES7 UCVF207-22ES7 UCVF207ES7 UCVF207-23ES7	VF207E	UC207-20S7 UC207-21S7 UC207-22S7 UC207S7 UC207-23S7		0.83	25.7 15.4	13.9	UCVF207-20ECS7 UCVF207-21ECS7 UCVF207-22ECS7 UCVF207ECS7 UCVF207-23ECS7	UCVF207-20EDS7 UCVF207-21EDS7 UCVF207-22EDS7 UCVF207EDS7 UCVF207-23EDS7	63.7	2 1/2	0.85
	1 5/16 1 3/8																						
40	1 1/2	5 1/8 130	1 7/16 36.5	4 1/64 102	35/64 14	21/32 17	29/32 23	2 3/32 53.2	1.937 49.2	0.748 19	1/2 M12	UCVF208-24ES7 UCVF208-25ES7 UCVF208ES7	VF208E	UC208-24S7 UC208-25S7 UC208S7		1.08	29.1 17.8	14.0	UCVF208-24ECS7 UCVF208-25ECS7 UCVF208ECS7	UCVF208-24EDS7 UCVF208-25EDS7 UCVF208EDS7	70.7	2 25/32	1.11
	1 9/16																						

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.