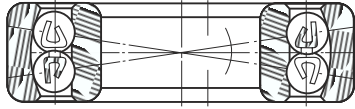


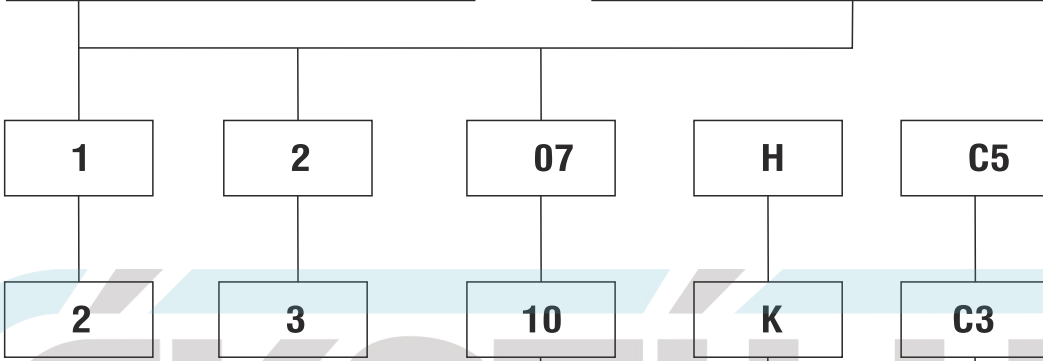


Type Code: (0)



Type code + size code

12XX
13XX
22XX
23XX



I.D.

5 X -- = mm
5 X 07 = 35 mm
5 X 10 = 50 mm

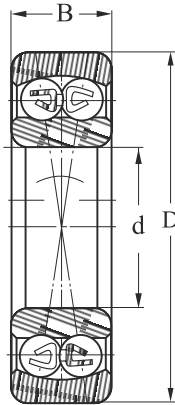
Clearance:

- C2: Less than nominal clearance
- C0: Nominal clearance, omitted in designation
- C3: Larger clearance, than C0
- C4: Larger clearance, than C3
- C5: Larger clearance, than C4

I.D.

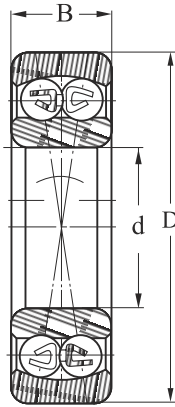
- C: Symmetrical, stamped steel retainer
- CA: Symmetrical, one-piece brass retainer
- H: Symmetrical, nylon retainer
- K: Bore is tapered 1: 12
- E4: a lubricating groove and three lubricating holes on the outer race

SELF ALIGNING BALL BEARINGS



Principal dimensions mm (in)				Weight kg (lb)	Bearing Number	Basic Load Rating kN (lbf)		Limiting Speed (rpm)			
d	D	B	r _{smin}			Dynamic C _r	Static Cor	Grease	Oil		
10 0.3937	30	9	0.6	0.033	1200	4.95	1.14	20000	23000		
	1.1811	0.3543	0.023	0.072		1110	260				
	30	14	0.6	0.042		6.57	1.53			18000	22000
	1.1811	0.5511	0.023	0.092		1480	340				
	35	11	0.6	0.057		6.53	1.56				
1.3779	0.4330	0.023	0.125	1470	350						
35	17	0.6	0.077	9.09	2.06	16000	19000				
1.3779	0.6692	0.023	0.169	2050	460						
12 0.4724	32	10	0.6	0.039	1201	5.04	1.22	17000	21000		
	1.2598	0.3937	0.023	0.085		1130	270				
	32	14	0.6	0.048		6.84	1.66			16000	19000
	1.2598	0.5511	0.023	0.105		1540	370				
	37	12	1.0	0.066		8.51	2.07				
1.4566	0.4724	0.039	0.145	1910	470						
37	17	1.0	0.082	10.62	2.60	14000	16000				
1.4566	0.6692	0.039	0.180	2390	590						
15 0.5905	35	11	0.6	0.048	1202	6.71	1.68	15000	18000		
	1.3779	0.4330	0.023	0.105		1510	380				
	35	14	0.6	0.055		6.93	1.78			14000	17000
	1.3779	0.5511	0.023	0.121		1560	400				
	42	13	1.0	0.093		8.60	2.20				
1.6535	0.5118	0.039	0.205	1940	500						
42	17	1.0	0.108	10.80	2.78	12000	14000				
1.6535	0.6692	0.039	0.238	2430	630						
17 0.6692	40	12	0.6	0.072	1203	7.11	1.93	13000	16000		
	1.5748	0.4724	0.023	0.158		1600	430				
	40	16	0.6	0.085		8.82	2.31			12000	15000
	1.5748	0.6299	0.023	0.187		1980	520				
	47	14	1.0	0.130		11.25	3.07				
1.8503	0.5511	0.039	0.286	2530	690						
47	19	1.0	0.150	12.96	3.41	10000	13000				
1.8503	0.7480	0.039	0.330	2920	770						
20 0.7874	47	14	1.0	0.120	1204	8.91	2.51	12000	14000		
	1.8503	0.5511	0.039	0.264		2000	560				
	47	18	1.0	0.133		11.34	3.17			11000	13000
	1.8503	0.7086	0.039	0.293		2550	710				
	52	15	1.1	0.165		11.16	3.22				
2.0472	0.5905	0.043	0.363	2510	720						
52	21	1.1	0.193	16.29	4.51	10000	11000				
2.0472	0.8267	0.043	0.425	3670	1010						
25 0.9842	52	15	1.0	0.140	1205	10.89	3.17	10000	12000		
	2.0472	0.5905	0.039	0.308		2450	710				
	52	18	1.0	0.150		11.07	3.31			10000	11000
	2.0472	0.7086	0.039	0.330		2490	740				
	62	17	1.1	0.255		16.20	4.80				
2.4409	0.6692	0.043	0.562	3650	1080						
62	24	1.1	0.319	21.96	6.34	8100	10000				
2.4409	0.9448	0.043	0.703	4940	1430						
30 1.1811	62	16	1.0	0.220	1206	14.04	4.46	8700	10000		
	2.4409	0.6399	0.039	0.485		3160	1000				
	62	20	1.0	0.249		13.68	4.32			8200	10000
	2.4409	0.7874	0.039	0.549		3080	970				
	72	19	1.1	0.385		19.17	6.05				
2.8346	0.7480	0.043	0.848	4310	1360						
72	27	1.1	0.480	28.35	8.40	6800	8100				
2.8346	1.0629	0.043	1.058	6380	1890						
35 1.3779	72	17	1.1	0.320	1207	14.22	4.90	7600	8900		
	2.8346	0.6692	0.043	0.705		3200	1100				
	72	23	1.1	0.378		19.35	6.34			7100	8400
	2.8346	0.9055	0.043	0.833		4350	1430				
	80	21	1.5	0.510		22.59	7.54				
3.1496	0.8267	0.059	1.124	5080	1700						
80	31	1.5	0.642	35.55	10.85	6000	7000				
3.1496	1.2204	0.059	1.416	8000	2440						
40 1.5748	80	18	1.1	0.415	1208	17.37	6.29	6700	8000		
	3.1496	0.7086	0.043	0.915		3910	1420				
	80	23	1.1	0.477		20.07	7.06			6400	7500
	3.1496	0.9055	0.043	1.051		4500	1590				
	90	23	1.5	0.715		26.64	9.31				
3.5433	0.9055	0.059	1.576	5990	2090						
90	33	1.5	0.889	40.50	12.96	5300	6300				
3.5433	1.2992	0.059	1.960	9110	2920						
45 1.7716	85	19	1.1	0.465	1209	19.71	7.06	6100	7100		
	3.3464	0.7480	0.043	1.025		4430	1590				
	85	23	1.1	0.522		20.88	7.82			5700	6700
3.3464	0.9055	0.043	1.151	4700	1760						

SELF ALIGNING BALL BEARINGS



Principal dimensions mm (in)				Weight kg (lb)	Bearing Number	Basic Load Rating kN (lbf)		Limiting Speed (rpm)	
d	D	B	r _{smin}			Dynamic C _r	Static Cor	Grease	Oil
45 1.7716	100 3.9370	25 0.9842	1.5 0.059	0.955 2.106	1309	34.20 770	12.19 2740	5100	6000
	100 3.9370	36 1.4173	1.5 0.059	1.200 2.646	2309	48.60 10940	16.03 3610	4800	5600
50 1.9685	90 3.5433	20 0.7874	1.1 0.043	0.525 1.158	1210	20.43 4600	7.78 1750	5500	6500
	90 3.5433	23 0.9055	1.1 0.043	0.564 1.244	2210	20.88 4700	8.11 1820	5200	6100
	110 4.3307	27 1.0629	2.0 0.079	1.250 2.756	1310	39.15 8810	13.54 3050	4700	5500
	110 4.3307	40 1.5748	2.0 0.079	1.580 3.484	2310	58.05 13060	19.39 4360	4400	5100
55 2.1653	100 3.9370	21 0.8267	1.5 0.059	0.705 1.555	1211	24.12 5430	9.60 2160	5000	5900
	100 3.9370	25 0.9842	1.5 0.059	0.746 1.645	2211	23.85 5370	9.50 2140	4800	5500
	120 4.7244	29 1.1417	2.0 0.079	1.600 3.528	1311	46.35 10430	17.18 3870	4300	4900
	120 4.7244	43 1.6929	2.0 0.079	2.030 4.476	2311	67.95 15290	23.04 5180	4000	4700
60 2.3622	110 4.3307	22 0.8661	1.5 0.059	0.900 1.985	1212	27.00 6080	11.04 2480	4700	5500
	110 4.3307	28 1.1023	1.5 0.059	1.030 2.271	2212	30.60 6890	12.10 2720	4400	5100
	130 5.1181	31 1.2204	2.1 0.083	2.030 4.476	1312	51.30 11540	19.97 4490	3900	4600
	130 5.1181	46 1.8110	2.1 0.083	2.570 5.667	2312	78.30 17620	27.072 6090	3600	4300
65 2.5590	120 4.7244	23 0.9055	1.5 0.059	1.150 2.536	1213	27.90 6280	12.00 2700	4300	5000
	120 4.7244	31 1.2204	1.5 0.059	1.400 3.087	2213	39.15 8810	15.74 3540	4000	4800
	140 5.5118	33 1.2992	2.1 0.083	2.540 5.601	1313	55.80 12560	21.99 4950	3600	4300
	140 5.5118	48 1.8897	2.1 0.083	3.200 7.056	2313	86.40 19440	31.20 7020	3400	4000
70 2.7559	125 4.9212	24 0.9448	1.5 0.059	1.30 2.876	1214	31.05 6990	13.25 2980	4000	4700
	125 4.9212	31 1.2204	1.5 0.059	1.52 3.352	2214	39.60 8910	16.42 3690	3700	4400
	150 5.9055	35 1.3779	2.1 0.083	3.19 7.034	1314	67.05 15090	26.59 5980	3300	4000
	150 5.9055	51 2.0078	2.1 0.083	3.90 8.600	2314	98.10 22070	36.00 8100	3100	3700
75 2.9527	130 5.1181	25 0.9842	1.5 0.059	1.41 3.109	1215	35.10 7900	15.07 3390	3700	4400
	130 5.1181	31 1.2204	1.5 0.059	1.60 3.528	2215	40.05 9010	17.09 3850	3500	4100
	160 6.2992	37 1.4566	2.1 0.083	3.65 8.048	1315	71.55 16100	28.80 6480	3100	3700
	160 6.2992	55 2.1653	2.1 0.083	4.77 10.518	2315	110.7 24910	41.28 9290	2900	3400
80 3.1496	140 5.5118	26 1.0236	2.0 0.079	1.73 3.815	1216	36.00 8100	16.32 3670	3500	4100
	140 5.5118	33 1.2992	2.0 0.079	1.97 4.344	2216	43.65 9820	19.10 4300	3200	3800
	170 6.6929	39 1.5354	2.1 0.083	4.31 9.504	1316	79.65 17920	31.68 7130	2900	3400
	170 6.6929	58 2.2834	2.1 0.083	5.54 12.216	2316	115.20 25920	43.20 9720	2800	3200
85 3.3464	150 5.9055	28 1.1023	2.0 0.079	2.09 4.608	1217	44.10 9920	19.97 4490	3300	3900
	150 5.9055	36 1.4173	2.0 0.079	2.48 5.468	2217	52.20 11750	22.66 5100	3000	3600
	180 7.0866	41 1.6141	3.0 0.118	5.13 11.312	1317	87.75 19740	36.48 8210	2800	3200
	180 7.0866	60 2.3622	3.0 0.118	6.56 14.465	2317	126 28350	49.44 11120	2600	3000
90 3.5433	160 6.2992	30 1.1811	2.0 0.079	2.55 5.623	1218	51.3 11540	22.56 5080	3100	3600
	160 6.2992	40 1.5748	2.0 0.079	3.13 6.902	2218	63 14180	27.552 6200	2900	3400
	190 7.4803	43 1.6929	3.0 0.118	5.94 13.098	1218	104.4 23490	47.72 9610	2600	3000
	190 7.4803	64 2.5196	3.0 0.118	7.76 17.111	2318	136.8 30780	55.2 12420	2500	2900