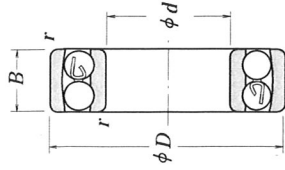
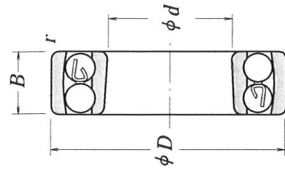


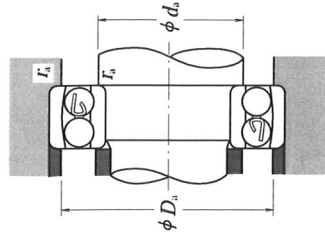
Bore Diameter 35 – 70 mm



Cylindrical Bore



Tapered Bore



Dynamic Equivalent Load

$$P = X F_r + Y F_a$$

$F_a/F_r \leq e$		$F_a/F_r > e$	
X	Y	X	Y
1	Y_3	0.65	Y_2

Static Equivalent Load

$$P_0 = F_r + Y_0 F_a$$

The values of e , Y_2 , Y_3 , and Y_0 are listed in the table below.

Boundary Dimensions (mm)				Basic Load Ratings (N)			Limiting Speeds (min ⁻¹)		Bearing
d	D	B	r	C _r	C _{0r}	C _r	Grease	Oil	
35	72	17	1.1	15 900	5 100	1 620	8 500	10 000	1207
	72	23	1.1	21 700	6 600	2 210	8 500	10 000	2207
	80	21	1.5	25 300	7 850	2 580	7 500	9 000	1307
	80	31	1.5	40 000	11 300	4 100	7 100	9 000	2307
40	80	18	1.1	19 300	6 500	1 970	7 500	9 000	1208
	80	23	1.1	22 400	7 350	2 290	7 500	9 000	2208
	90	23	1.5	29 800	9 700	3 050	6 700	8 000	1308
	90	33	1.5	45 500	13 500	4 650	6 300	8 000	2308
45	85	19	1.1	22 000	7 350	2 240	7 100	8 500	1209
	85	23	1.1	23 300	8 150	2 380	7 100	8 500	2209
	100	25	1.5	33 500	12 700	3 900	6 000	7 500	1309
	100	36	1.5	55 000	16 700	5 600	5 600	7 100	2309
50	90	20	1.1	22 800	8 100	2 330	6 300	8 000	1210
	90	23	1.1	23 300	8 450	2 380	6 300	8 000	2210
	110	27	2	43 500	14 100	4 450	5 600	6 700	1310
	110	40	2	65 000	20 200	6 650	5 000	6 300	2310
55	100	21	1.5	26 900	10 000	2 750	6 000	7 100	1211
	100	25	1.5	26 700	9 900	2 720	6 000	7 100	2211
	120	29	2	51 500	17 900	5 250	5 000	6 300	1311
	120	43	2	76 500	24 000	7 800	4 800	6 000	2311
60	110	22	1.5	30 500	11 500	3 100	5 300	6 300	1212
	110	28	1.5	34 000	12 600	3 500	5 300	6 300	2212
	130	31	2.1	57 500	20 800	5 900	4 500	5 600	1312
	130	46	2.1	88 500	28 300	9 000	4 300	5 300	2312
65	120	23	1.5	31 000	12 500	3 150	4 800	6 000	1213
	120	31	1.5	43 500	16 400	4 450	4 800	6 000	2213
	140	33	2.1	62 500	22 900	6 350	4 300	5 300	1313
	140	48	2.1	97 000	32 500	9 900	3 800	4 800	2313
70	125	24	1.5	35 000	13 800	3 550	4 800	5 600	1214
	125	31	1.5	44 000	17 100	4 500	4 500	5 600	2214
	150	35	2.1	75 000	27 700	7 650	4 000	5 000	1314
	150	51	2.1	111 000	37 500	11 300	3 600	4 500	2314

Note (1) The suffix K represents bearings with tapered bores (1 : 12)

Remarks For the dimensions related to adapters, refer to Page B358 and B359.

Numbers	Abutment and Fillet Dimensions (mm)			Constant	Axial Load Factors			Mass (kg)
	Tapered Bore(1)	d_a min.	D_a max.		Y_2	Y_3	Y_0	
1207 K	—	41.5	65.5	0.23	4.2	2.7	2.8	0.32
2207 K	—	41.5	65.5	0.37	2.6	1.7	1.8	0.378
1307 K	—	43	72	0.26	3.8	2.5	2.6	0.51
2307 K	—	43	72	0.46	2.1	1.4	1.4	0.642
1208 K	—	46.5	73.5	0.22	4.3	2.8	2.9	0.415
2208 K	—	46.5	73.5	0.33	3.0	1.9	2.0	0.477
1308 K	—	48	82	0.24	4.0	2.6	2.7	0.715
2308 K	—	48	82	0.43	2.3	1.5	1.5	0.889
1209 K	—	51.5	78.5	0.21	4.7	3.0	3.1	0.465
2209 K	—	51.5	78.5	0.30	3.2	2.1	2.2	0.522
1309 K	—	53	92	0.25	4.0	2.6	2.7	0.955
2309 K	—	53	92	0.41	2.4	1.5	1.6	1.2
1210 K	—	56.5	83.5	0.21	4.7	3.1	3.2	0.525
2210 K	—	56.5	83.5	0.28	3.4	2.2	2.3	0.564
1310 K	—	59	101	0.23	4.2	2.7	2.8	1.25
2310 K	—	59	101	0.42	2.3	1.5	1.6	1.58
1211 K	—	63	92	0.20	4.9	3.2	3.3	0.705
2211 K	—	63	92	0.28	3.5	2.3	2.4	0.746
1311 K	—	64	111	0.23	4.2	2.7	2.8	1.6
2311 K	—	64	111	0.41	2.4	1.5	1.6	2.03
1212 K	—	68	102	0.18	5.3	3.4	3.6	0.90
2212 K	—	68	102	0.28	3.5	2.3	2.4	1.03
1312 K	—	71	119	0.23	4.3	2.8	2.9	2.03
2312 K	—	71	119	0.40	2.4	1.6	1.6	2.57
1213 K	—	73	112	0.17	5.7	3.7	3.8	1.15
2213 K	—	73	112	0.28	3.5	2.3	2.4	1.4
1313 K	—	76	129	0.23	4.2	2.7	2.9	2.54
2313 K	—	76	129	0.39	2.5	1.6	1.7	3.2
—	—	78	117	0.18	5.3	3.4	3.6	1.3
—	—	78	117	0.26	3.7	2.4	2.5	1.52
—	—	81	139	0.22	4.4	2.8	3.0	3.19
—	—	81	139	0.38	2.6	1.7	1.8	3.9