

Thrust ball bearings

Single direction

Standard

Series: BA 3 – BA 9

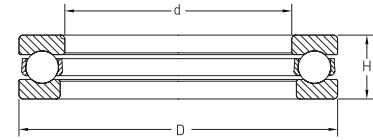
Size: 3 mm – 9 mm

0.1181 in – 0.3543 in

Series: 51100 – 51132 M

Size: 10 mm – 160 mm

0.3937 in – 6.2292 in



Single direction

Designation	Principal dimensions						Basic load ratings				Minimum load factor	Speed rating		Mass	
	Bore d		Outside diameter D		Height H		Dynamic C		Static C ₀			Reference speed	Limiting speed		
	mm	in	mm	in	mm	in	N	lbf	N	lbf	A			r/min	r/min
BA 3	3	0.1181	8	0.3150	3.5	0.1378	806	180	720	160	0.003	26 000	36 000	0.0009	0.00
BA 4	4	0.1575	10	0.3937	4	0.1575	761	170	720	160	0.003	22 000	30 000	0.0015	0.00
BA 5	5	0.1969	12	0.4724	4	0.1575	852	190	965	220	0.005	20 000	28 000	0.0021	0.00
BA 6	6	0.2362	14	0.5512	5	0.1969	1 780	400	1 920	430	0.019	17 000	24 000	0.0035	0.01
BA 7	7	0.2756	17	0.6693	6	0.2362	2 510	560	2 900	650	0.044	14 000	19 000	0.0065	0.01
BA 8	8	0.3150	19	0.7480	7	0.2756	3 190	720	3 800	850	0.075	12 000	17 000	0.0091	0.02
BA 9	9	0.3543	20	0.7874	7	0.2756	3 120	700	3 800	850	0.075	12 000	16 000	0.0100	0.02
51100	10	0.3937	24	0.9449	9	0.3543	9 950	2 240	15 300	3 440	1.2	9 500	13 000	0.02	0.04
51101	12	0.4724	26	1.0236	9	0.3543	10 400	2 340	16 600	3 730	1.4	9 000	13 000	0.02	0.05
51102	15	0.5906	28	1.1024	9	0.3543	10 600	2 380	18 300	4 110	1.7	8 500	12 000	0.02	0.05
51103	17	0.6693	30	1.1811	9	0.3543	11 400	2 560	21 200	4 760	2.3	8 500	12 000	0.03	0.06
51104	20	0.7874	35	1.3780	10	0.3937	15 100	3 390	29 000	6 520	4.4	7 500	10 000	0.04	0.08
51105	25	0.9843	42	1.6535	11	0.4331	18 200	4 090	39 000	8 760	7.9	6 300	9 000	0.06	0.12
51106	30	1.1811	47	1.8504	11	0.4331	19 000	4 270	43 000	9 660	9.6	6 000	8 500	0.06	0.14
51107	35	1.3780	52	2.0472	12	0.4724	19 900	4 470	51 000	11 460	13	5 600	7 500	0.08	0.18
51108	40	1.5748	60	2.3622	13	0.5118	25 500	5 730	63 000	14 160	20	5 000	7 000	0.12	0.26
51109	45	1.7717	65	2.5591	14	0.5512	26 500	5 960	69 500	15 620	25	4 500	6 300	0.14	0.31
51110	50	1.9685	70	2.7559	14	0.5512	27 000	6 070	75 000	16 850	29	4 300	6 300	0.16	0.35
51111	55	2.1654	78	3.0709	16	0.6299	30 200	6 790	81 500	18 310	39	3 800	5 300	0.23	0.51
51112	60	2.3622	85	3.3465	17	0.6693	41 600	9 350	122 000	27 420	77	3 600	5 000	0.27	0.60
51113	65	2.5591	90	3.5433	18	0.7087	37 700	8 470	108 000	24 270	60	3 400	4 800	0.33	0.73
51114	70	2.7559	95	3.7402	18	0.7087	40 300	9 060	120 000	26 970	74	3 400	4 500	0.35	0.77
51115	75	2.9528	100	3.9370	19	0.7480	44 200	9 930	134 000	30 110	110	3 200	4 300	0.40	0.88
51116	80	3.1496	105	4.1339	19	0.7480	44 900	10 090	140 000	31 460	120	3 000	4 300	0.42	0.93
51117	85	3.3465	110	4.3307	19	0.7480	44 900	10 090	146 000	32 810	140	3 000	4 300	0.44	0.97
51118	90	3.5433	120	4.7244	22	0.8661	59 200	13 300	208 000	46 740	220	2 600	3 800	0.67	1.48
51120	100	3.9370	135	5.3150	25	0.9843	80 600	18 110	265 000	59 600	440	2 400	3 200	0.97	2.14
51122	110	4.3307	145	5.7087	25	0.9843	83 200	18 700	285 000	64 000	520	2 200	3 200	1.05	2.32
51124	120	4.7244	155	6.1024	25	0.9843	85 200	19 150	305 000	68 500	580	2 200	3 000	1.15	2.54
51126	130	5.1181	170	6.6929	30	1.1811	119 000	26 740	440 000	98 900	940	1 900	2 600	1.85	4.08
51128	140	5.5118	180	7.0866	31	1.2205	111 000	24 940	440 000	98 900	1 000	1 800	2 600	2.05	4.52
51130 M	150	5.9055	190	7.4803	31	1.2205	111 000	24 940	440 000	98 900	1 000	1 700	2 400	2.20	4.85
51132 M	160	6.2992	200	7.8740	31	1.2205	112 000	25 170	465 000	104 500	1 100	1 700	2 400	2.35	5.18