



Ball Bearing

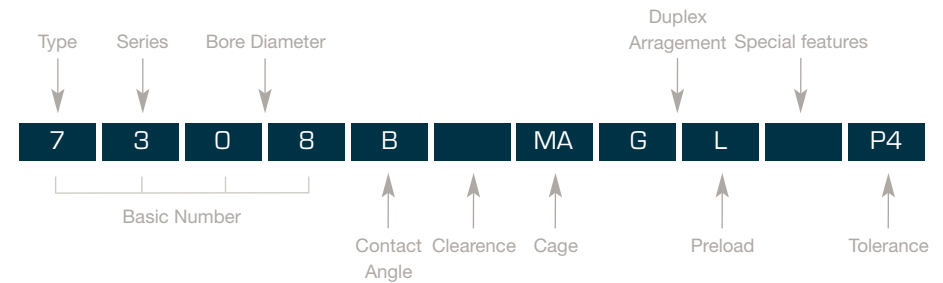
ANGULAR CONTACT

Single Row

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Type

- 32,33** Double row angular contact ball bearings with filling slot.
- 52,53** Double row angular contact ball bearing without filling slot.
- 70, 72, 73** Angular contact ball bearings.
- QJ** Four Point ball bearings.

Internal Clearance

- C1** Radial clearance less than C2
- C2** Radial clearance less than normal
- C3** Radial clearance greater than normal
- C4** Radial clearance greater than C3
- C5** Radial clearance greater than C4
- R** Special radial clearance, value micron.

Contact Angle

- No Symbol** Contact Angle 30°
- B** Contact Angle 40°
- C** Contact Angle 15°
- E** Contact Angle 25°

Duplex Arrangement

- DB** Duplex pair, back to back mounting
- DF** Duplex pair, face to face mounting
- DT** Duplex pair, tandem mounting)
- G** Universal mounting

Cage

- J** Pressed steel cage
- M** Machined brass cage
- T** Phenolic cage
- TV** Polyamide cage
- P** Window type cage
- A** Outer lip riding
- B** Inner lip riding

Tolerance

- P6** ISO Class 6 (equivalent to ABEC 3)
- P5** ISO Class 5 (equivalent to ABEC 5)
- P4** ISO Class 4 (equivalent to ABEC 7)

Combining the suffix for tolerances and clearance:

- $P5 + C1 = P51$
- $P5 + C2 = P52$
- $P5 + C3 = P53$
- $P4 + C1 = P41$

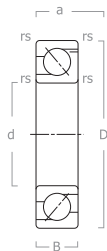
Special Features

- No Symbol** Open Type
- RSR, 2RSR** Non- contact rubber seal
- RS, 2RS** Double-lip contact rubber seal
- Z,ZZ** Shield
- Z1, ZZ1** Stainless steel Shield
- N2** Retained slots

Pre load

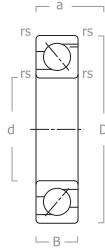
- L** Light pre load
- M** Medium pre load
- H** High pre load

SINGLE ROW



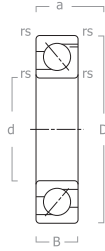
Principal dimensions				Basic load ratings			Speed ratings(rpm)		Designations	Weight
mm				KN			Grease	Oil		kg
d	D	B	rmin	r1min	Cr	Cor				
10	30	9	0.60	0.30	5.00	2.50	22000	32000	7200B	0.03
12	32	10	0.60	0.30	6.95	3.40	19000	28000	7201B	0.04
	37	12	1.00	0.60	10.60	5.00	17000	24000	7301B	0.06
15	35	11	0.60	0.30	8.00	4.30	17000	24000	7202B	0.05
	42	13	1.00	0.60	12.90	6.55	15000	20000	7302B	0.08
17	40	12	0.60	0.60	10.00	5.50	15000	20000	7203B	0.07
	47	14	1.00	0.60	16.00	8.30	13000	18000	7303B	0.11
20	47	14	1.00	0.60	13.40	7.65	13000	18000	7204B	0.10
	52	15	1.10	0.60	19.00	10.40	12000	17000	7304B	0.15
25	52	15	1.00	0.60	14.60	9.30	11000	16000	7205B	0.13
	62	17	1.10	0.60	26.00	15.00	9500	14000	7305B	0.23
30	62	16	1.00	0.60	20.40	13.40	9000	13000	7206B	0.21
	72	19	1.10	0.60	32.50	20.00	8000	11000	7306B	0.35
35	72	17	1.10	0.60	27.00	18.30	8000	11000	7207B	0.30
	80	21	1.50	1.00	39.00	25.00	7000	9500	7307B	0.46
40	80	18	1.10	0.60	32.00	23.20	7000	9500	7208B	0.38
	90	23	1.50	1.00	50.00	32.50	6300	8500	7208B	0.63
45	85	19	1.10	0.60	36.00	26.50	6300	8500	7209B	0.43
	100	25	1.50	1.00	60.00	40.00	5600	7500	7309B	0.84
50	90	20	1.10	0.60	37.50	28.50	6000	8000	7210B	0.49
	110	27	2.00	1.00	69.50	47.50	5300	7000	7310B	1.08
55	100	21	1.50	1.00	46.50	36.00	5300	7000	7211B	0.65
	120	29	2.00	1.00	78.00	56.00	4800	6300	7311B	1.41
60	110	22	1.50	1.00	56.00	44.00	4800	6300	7212B	0.78
	130	31	2.10	1.10	90.00	65.50	4300	5600	7312B	1.81

SINGLE ROW



Principal dimensions				Basic load ratings			Speed ratings(rpm)		Designations	Weight
mm				KN			Grease	Oil		kg
d	D	B	rmin	r1min	Cr	Cor				
65	120	23	1.50	1.00	64.00	53.00	4500	6000	7213B	1.03
	140	33	2.10	1.10	102.00	75.00	4000	5300	7313B	2.16
70	125	24	1.50	1.00	69.50	58.50	4300	5600	7214B	1.14
	150	35	2.10	1.10	114.00	86.50	3800	5000	7314B	2.65
75	130	25	1.50	1.00	68.00	58.50	4000	5300	7215B	1.19
	160	37	2.10	1.10	127.00	100.00	3400	4500	7315B	3.17
80	140	26	2.00	1.00	80.00	69.50	3800	5000	7216B	1.46
	170	39	2.10	1.10	140.00	114.00	3200	4300	7216B	4.28
85	150	28	2.00	1.00	90.00	80.00	3400	4500	7217B	1.92
	180	41	3.00	1.10	150.00	127.00	3000	4000	7317B	4.58
90	160	30	2.00	1.00	106.00	93.00	3200	4300	7218B	2.35
	190	43	3.00	1.10	160.00	140.00	2800	3800	7318B	5.32
95	170	32	2.10	1.10	116.00	100.00	3000	4000	7219B	3.09
	200	45	3.00	1.10	173.00	153.00	2800	3800	7319B	6.18
100	180	34	2.10	1.10	129.00	114.00	2800	3800	7220B	3.41
	215	47	3.00	1.10	193.00	180.00	2600	3600	7320B	7.65
105	190	36	2.10	1.10	143.00	129.00	2800	3800	7221B	4.40
	225	49	3.00	1.10	208.00	200.00	2400	3400	7321B	9.46
110	200	38	2.10	1.10	153.00	143.00	2600	3600	7222B	4.72
	240	50	3.00	1.10	224.00	224.00	2400	3400	7322B	10.40
120	215	40	2.10	1.10	166.00	160.00	2400	3400	7224B	6.21
	260	55	3.00	1.10	250.00	260.00	2200	3200	7324B	14.40
130	230	40	3.00	1.10	186.00	190.00	2200	3200	7226B	7.01
	280	58	4.00	1.50	275.00	300.00	2000	3000	7326B	17.50
140	250	42	3.00	1.10	196.00	212.00	2000	3000	7228B	8.91

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Principal dimensions				Basic load ratings			Speed ratings(rpm)		Designations	Weight
mm				KN			Grease	Oil		kg
d	D	B	rmin	r1min	Cr	Cor				
150	300	62	4.00	1.50	300.00	340.00	1800	2600	7328B	21.60
150	270	45	3.00	1.10	224.00	255.00	1900	2800	7230B	11.30
160	320	65	4.00	1.50	325.00	390.00	1700	2400	7330B	25.50
160	290	48	3.00	1.10	236.00	280.00	1800	2600	7232B	14.00
170	340	68	4.00	1.50	325.00	450.00	1600	2200	7332B	30.50
170	310	52	4.00	1.50	265.00	325.00	1700	2400	7234B	17.50