



Angular Contact ball Bearings

Single row angular contact bearings are manufactured in various constructive versions with various contact angles depending upon the application. Bearings series 72B and 73B for general applications have a contact angle 40 degree. Single row angular contact bearings can take only one direction axial loads. When being radially loaded in bearing occurs an axially acting load which has to be compensated. For this reasons a bearing or paired bearings are mounted on each shaft ends.

Product Highlights

High running accuracy and speed capabilities

Universal matching

Large product assortment

Machined brass cage for heavy duty applications

As ANSI pump requirements

Angular Contact Ball Bearings

Universal Design

Bearings of universal design are manufactured to more accurate tolerance classes and can be matched if the mounting conditions UA, UO and UL are observed.

Suffixes

1. Design

- B - 40° Contact angle
- BE - 40° Contact angle, high capacity all ISO corners
- A - Conrad assembly(3000 series)
- E - Max type (3000 series)
- D - Split inner ring (3300 series)
- NR - Snap ring (3000 series)
- N2 - Locating slot (QJ series)
- 2Z - Shield on both sides (3000 series)
- 2RS1- Seals of synthetic rubber (NBR) on

both sides (3000 series)

2. Clearance

- (CO)*- Normal clearance (3000 series)
- C2 - Axial clearance tighter than normal (3000 and QJ series)
- C3 - Axial clearance looser than normal (3000 and QJ series)

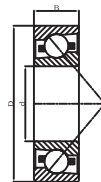
3. 7000 Series clearance

- CA - Modified for duplex mounting with axial clearance < normal
- CB - Modified for duplex mounting with normal axial clearance
- CC - Modified for duplex mounting with axial clearance > normal

4. Cage designs

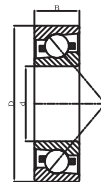
- Y - Press brass cage, ball guided
- M - Machined brass cage, rolling element guided
- MA - Machined window-type brass cage, outer ring centered
- P - Injection molded cage of fiberglass reinforced polyamide 6.6, rolling element guided
- PHAS- Injection molded window-type cage of fiberglass reinforced polyetheretherketone (PEEK), with lubrication grooves in the guiding surfaces, outer ring center
- J - Pressed steel cage, rolling element guided
- F - Machined steel cage, rolling element guided
- GB - Modified for duplex with medium preload
- GC - Modified for duplex mounting with heavy load
- G.. - Special preload, value in daN

Angular Contact Ball Bearings



Bearing Designation	Principal Dimensions			Basic Load Ratings		Fatigue Load Limit	Speed ratings Lubrication		Mass
	d	D	B	Dynamic	Static		Grease	Oil	
	mm			C (kN)	CO (kN)	Pu (kN)	rpm		kg
7200 B	10	30	9	7.0	3.4	0.1	19000	28000	0.030
7201 B	12	32	10	7.6	3.8	0.2	18000	26000	0.036
7202 B	15	35	11	8.8	4.8	0.2	17000	24000	0.045
7203 B	17	40	12	11.1	6.1	0.3	15000	20000	0.065
7204 B	20	47	14	14.0	8.3	0.4	12000	17000	0.110
7205 B	25	52	15	15.6	10.2	0.4	10000	15000	0.130
7206 B	30	62	16	23.8	15.6	0.7	8500	12000	0.200
7207 B	35	72	17	30.7	20.8	0.9	8000	11000	0.280
7208 B	40	80	18	34.6	26.0	1.1	7000	9500	0.370
7209 B	45	85	19	37.7	28.0	1.2	6700	9000	0.420
7210 B	50	90	20	39.0	30.5	1.3	6000	8000	0.470
7211 B	55	100	21	48.8	38.0	1.6	5600	7500	0.620
7212 B	60	110	22	57.2	45.5	1.9	5000	6700	0.800
7213 B	65	120	23	66.3	54.0	2.3	4500	6000	1.000
7214 B	70	125	24	71.5	60.0	2.5	4300	5600	1.100
7215 B	75	130	25	72.8	64.0	2.7	4300	5600	1.200
7216 B	80	140	26	83.2	73.5	3.0	3800	5000	1.450
7217 B	85	150	28	95.6	83.0	3.3	3600	4800	1.850
7218 B	90	160	30	108.0	96.5	3.7	3400	4500	2.300
7219 B	95	170	32	124.0	108.0	4.0	3200	4300	2.700
7220 B	100	180	34	135.0	122.0	4.4	3000	4000	3.300
7221 B	105	190	36	148.0	137.0	4.8	2800	3800	3.950
7222 B	110	200	38	163.0	153.0	5.2	2600	3600	4.600

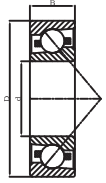
Angular Contact Ball Bearings



Bearing Designation	Principal Dimensions			Basic Load Ratings		Fatigue Load Limit	Speed ratings Lubrication		Mass
	d	D	B	Dynamic	Static		Grease	Oil	
	mm			C (kN)	CO (kN)	Pu (kN)	rpm		kg
7224 B	120	215	40	165.0	163.0	5.3	2200	3200	6.100
7226 B	130	230	40	186.0	193.0	6.1	1900	2800	6.950
7228 B	140	250	42	182.0	196.0	5.9	1800	2600	8.850
7230 B	150	270	45	195.0	224.0	6.6	1700	2400	11.500
7232 B	160	290	48	199.0	236.0	6.7	1600	2200	14.000
7234 B	170	310	52	221.0	270.0	7.4	1600	2200	17.500
7236 B	180	320	52	251.0	320.0	8.5	1500	2000	18.000
7238 B	190	340	55	276.0	355.0	9.2	1400	1900	22.000
7244 B	220	400	65	319.0	465.0	11.2	1100	1600	37.000
7248 B	240	440	72	364.0	540.0	12.5	1000	1500	49.000

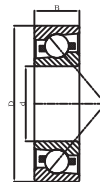
7301 B	12	37	12	10.6	5.0	0.2	17000	24000	0.060
7302 B	15	42	13	13.0	6.7	0.3	15000	20000	0.080
7303 B	17	47	14	15.9	8.3	0.4	13000	18000	0.110
7304 B	20	52	15	19.0	10.4	0.4	11000	16000	0.140
7305 B	25	62	17	26.0	15.6	0.7	9000	13000	0.230
7306 B	30	72	19	34.5	21.2	0.9	8000	11000	0.340
7307 B	35	80	21	39.0	24.5	1.0	7500	10000	0.450
7308 B	40	90	23	49.4	33.5	1.4	6700	9000	0.630
7309 B	45	100	25	60.5	41.5	1.7	6000	8000	0.850
7310 B	50	110	27	74.1	51.0	2.2	5300	7000	1.100
7311 B	55	120	29	85.2	60.0	2.6	4800	6300	1.400
7312 B	60	130	31	95.6	69.5	3.0	4500	6000	1.750

Angular Contact Ball Bearings



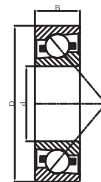
Bearing Designation	Principal Dimensions			Basic Load Ratings		Fatigue Load Limit	Speed ratings Lubrication		Mass
	d	D	B	Dynamic	Static		Grease	Oil	
	mm			C (kN)	CO (kN)	Pu (kN)	rpm		kg
7313 B	65	140	33	108.0	80.0	3.4	4300	5600	2.150
7314 B	70	150	35	119.0	90.0	3.7	3800	5000	2.650
7315 B	75	160	37	133.0	106.0	4.2	3600	4800	3.200
7316 B	80	170	39	143.0	118.0	4.5	3400	4500	3.800
7317 B	85	180	41	153.0	132.0	4.9	3200	4300	4.450
7318 B	90	190	43	165.0	146.0	5.2	3000	4000	5.200
7319 B	95	200	45	178.0	163.0	5.6	2800	3800	6.050
7320 B	100	215	47	203.0	190.0	6.4	2600	3600	7.500
7321 B	105	225	49	212.0	208.0	7.0	2400	3400	8.550
7322 B	110	240	50	225.0	224.0	7.2	2200	3200	10.000
7324 B	120	260	55	238.0	250.0	7.7	1900	2800	14.500
7326 B	130	280	58	251.0	270.0	8.0	1800	2600	17.500
7328 B	140	300	62	276.0	310.0	8.8	1700	2400	21.500
7330 B	150	320	65	302.0	365.0	10.2	1600	2200	26.000
7334 B	170	360	72	358.0	455.0	12.0	1400	1900	36.000
7336 B	180	380	75	371.0	490.0	12.5	1300	1800	42.000
7338 B	190	400	78	410.0	560.0	13.7	1200	1700	48.500

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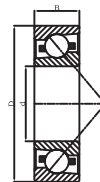
Bearing Designation	Principal Dimensions			Basic Load Ratings		Fatigue Load Limit	Speed ratings Lubrication		Mass
	d	D	B	Dynamic	Static		Grease	Oil	
mm				C (kN)	CO (kN)	Pu (kN)	rpm		kg
3200	10	30	14.0	7.6	4.3	0.2	22000	24000	0.051
3201	12	32	15.9	10.1	5.6	0.2	20000	22000	0.058
3202	15	35	15.9	11.2	6.8	0.3	17000	18000	0.066
3203	17	40	17.5	14.3	8.8	0.4	15000	16000	0.096
3204	20	47	20.6	20.0	12.0	0.5	14000	14000	0.160
3205	25	52	20.6	21.6	14.3	0.6	12000	12000	0.180
3206	30	62	23.8	30.0	20.4	0.9	10000	10000	0.290
3207	35	72	27.0	40.0	28.0	1.2	9000	9000	0.440
3208	40	80	30.2	47.5	34.0	1.4	8000	8000	0.580
3209	45	85	30.2	51.0	39.0	1.6	7500	7500	0.630
3210	50	90	30.2	51.0	39.0	1.7	7000	7000	0.660
3211	55	100	33.4	60.0	47.5	2.0	6300	6000	1.050
3212	60	110	36.5	73.5	58.5	2.5	5600	5600	1.400
3213	65	120	38.1	80.6	73.5	3.1	4500	4800	1.750
3214	70	125	39.7	88.4	80.0	3.4	4300	4500	1.900
3215	75	130	41.3	95.6	88.0	3.8	4300	4500	2.100
3216	80	140	44.4	106.0	95.0	3.9	4000	4300	2.650
3217	85	150	49.2	124.0	110.0	4.4	3600	3800	3.400
3218	90	160	52.4	130.0	120.0	4.6	3400	3600	4.150
3219	95	170	55.6	159.0	146.0	5.4	3200	3400	5.000
3220	100	180	60.3	178.0	166.0	6.0	3000	3200	6.100
3222	110	200	69.8	212.0	212.0	7.3	2800	2800	8.800

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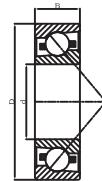
Bearing Designation	Principal Dimensions			Basic Load Ratings		Fatigue Load Limit	Speed ratings Lubrication		Mass
	d	D	B	Dynamic	Static		Grease	Oil	
	mm			C (kN)	CO (kN)	Pu (kN)	rpm		kg
3302	15	42	19.0	15.1	9.3	0.4	15000	16000	0.130
3303	17	47	22.0	21.6	12.7	0.5	14000	14000	0.180
3304	20	52	22.2	23.6	14.6	0.6	13000	13000	0.220
3305	25	62	25.4	32.0	20.4	0.9	11000	11000	0.350
3306	30	72	30.2	41.5	27.5	1.2	9000	9000	0.530
3307	35	80	34.9	52.0	35.5	1.5	8500	8500	0.710
3308	40	90	36.5	64.0	44.0	1.9	7500	7500	1.050
3309	45	100	39.7	75.0	53.0	2.2	6700	6700	1.400
3310	50	110	44.4	90.0	64.0	2.8	6000	6000	1.950
3311	55	120	49.2	112.0	81.5	3.5	5300	5300	2.550
3312	60	130	54.0	127.0	95.0	4.1	5000	5000	3.250
3313	65	140	58.7	146.0	110.0	4.6	4500	4500	4.100
3314	70	150	63.5	153.0	125.0	5.0	4000	4000	5.050
3315	75	160	68.3	176.0	140.0	5.5	4000	4000	5.550
3316	80	170	68.3	182.0	156.0	6.0	3400	3600	6.800
3317	85	180	73.0	195.0	176.0	6.6	3200	3400	8.300
3318	90	190	73.0	195.0	180.0	6.4	3000	3200	9.250
3319	95	200	77.8	225.0	216.0	7.5	2800	3000	11.000
3320	100	215	82.6	255.0	216.0	7.5	2800	3000	11.000
3322	110	240	92.1	291.0	305.0	9.8	2400	2600	19.000

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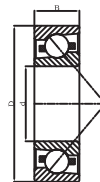
Bearing Designation		Principal Dimensions			Basic Load Ratings		Fatigue Load Limit	Speed ratings Lubrication		Mass
		d	D	B	Dynamic	Static		Grease	Oil	
1 Shield	2 Shield	mm			C (kN)	CO (kN)	Pu (kN)	rpm		kg
5200 Z	5200 2Z	10	30	14.4	7.2	3.9	0.2	16000	22000	0.045
5201 Z	5201 2Z	12	32	15.9	10.6	5.9	0.2	15000	20000	0.050
5202 Z	5202 2Z	15	35	15.9	11.7	7.0	0.3	12000	17000	0.068
5203 Z	5203 2Z	17	40	17.5	14.8	9.0	0.4	10000	15000	0.090
5205 Z	5205 2Z	25	52	20.6	21.2	14.6	0.6	8000	11000	0.160
5206 Z	5206 2Z	30	62	23.8	30.3	28.0	1.2	7000	9500	0.350
5207 Z	5207 2Z	35	72	27.0	37.7	27.5	1.2	6000	8000	0.400
5208 Z	5208 2Z	40	80	30.2	49.5	49.0	2.1	5600	7500	0.730
5209 Z	5209 2Z	45	85	30.2	48.8	39.0	1.7	5000	6700	0.570
5210 Z	5210 2Z	50	90	30.2	48.8	39.0	1.7	4800	6300	0.590
5211 Z	5211 2Z	55	100	33.3	57.2	47.5	2.0	4300	5600	0.830
5212 Z	5212 2Z	60	110	36.5	70.2	58.5	2.5	3800	5000	1.100
5213 Z	5213 2Z	65	120	38.1	80.6	73.5	3.1	3600	4800	1.580
5214 Z	5214 2Z	70	125	39.7	88.4	80.0	3.4	3200	4300	1.500
5215 Z	5215 2Z	75	130	41.3	95.6	88.0	3.8	3200	4300	1.700
5216 Z	5216 2Z	80	140	44.4	106.0	95.0	3.9	2800	3800	2.100
5217 Z	5217 2Z	85	150	49.2	124.0	110.0	4.4	2600	3600	2.700
5218 Z	5218 2Z	90	160	52.4	130.0	120.0	4.6	2400	3400	3.400
5304 Z	5304 2Z	20	52	22.2	22.5	14.6	0.6	8500	12000	0.200
5305 Z	5305 2Z	25	62	25.4	30.7	20.4	0.9	7500	10000	0.320
5306 Z	5306 2Z	30	72	30.2	41.6	29.0	1.2	6300	8500	0.480
5307 Z	5307 2Z	35	80	34.9	49.4	34.5	1.5	5600	7500	0.660

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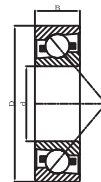
Bearing Designation		Principal Dimensions			Basic Load Ratings		Fatigue Load Limit	Speed ratings Lubrication		Mass
		d	D	B	Dynamic	Static		Grease	Oil	
1 Shield	2 Shield	mm			C (kN)	CO (kN)	Pu (kN)	rpm		kg
5308 Z	5308 ZZ	40	90	36.5	67.1	65.5	2.8	5000	6700	1.150
5309 Z	5309 ZZ	45	100	39.7	72.8	53.0	2.2	4500	6000	1.150
5310Z	5310 ZZ	50	110	44.4	85.2	64.0	2.7	4000	5300	1.550
5311 Z	5311 ZZ	55	120	49.2	106.0	81.5	3.5	3800	5000	2.000
5312 Z	5312 ZZ	60	130	54.0	121.0	95.0	4.0	3400	4500	2.600
5313 Z	5313 ZZ	65	140	58.7	138.0	108.0	4.6	3200	4300	3.300
5314 Z	5314 ZZ	70	150	63.5	153.0	125.0	5.0	2800	3800	4.050
5315 Z	5315 ZZ	75	160	68.3	168.0	14.0	5.5	2600	3600	4.900

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Bearing Designation	Principal Dimensions			Basic Load Ratings		Speed ratings Lubrication		Mass
	d	D	B	Dynamic	Static	Grease	Oil	
	mm			C (kN)	CO (kN)	rpm		kg
QJ 202 N2MA	15	35	11.0	12.7	8.3	22000	36000	0.060
QJ 203 N2MA	17	40	12.0	15.9	10.6	19000	30000	0.080
QJ 205 MA	25	50	15.0	27.0	21.2	14000	22000	0.160
QJ 206 MA	30	62	16.0	37.5	30.5	12000	19000	0.240
QJ 207 N2MA	35	72	17.0	49.0	41.5	10000	17000	0.360
QJ 208 MA	40	80	18.0	56.0	49.0	9000	15000	0.450
QJ 209 MA	45	85	19.0	63.0	56.0	8500	14000	0.520
QJ 210 MA	50	90	20.0	65.5	61.0	7500	13000	0.590
QJ 211 MA	55	100	21.0	85.0	83.0	7000	11000	0.770
QJ 212 MA	60	110	22.0	96.5	93.0	6300	10000	0.990
QJ 212 N2PHAS	60	110	22.0	96.5	93.0	-	-	0.890
QJ 213 MA	65	120	23.0	110.0	112.0	5600	9500	1.200
QJ 214 MA	70	125	24.0	120.0	122.0	5600	9000	1.320
QJ 215 MA	75	130	25.0	125.0	132.0	5300	8500	1.450
QJ 216 MA	80	140	26.0	146.0	156.0	4800	8000	1.850
QJ 217 MA	85	150	28.0	156.0	173.0	4500	7500	2.250
QJ 218 N2MA	90	160	30.0	186.0	200.0	4300	7000	2.750
QJ 219 N2MA	95	170	32.0	212.0	232.0	4000	6700	3.350
QJ 220 N2MA	100	180	34.0	236.0	265.0	3800	6300	4.050
QJ 222 N2MA	110	200	38.0	280.0	325.0	3400	5600	5.600
QJ 224 N2MA	120	215	40.0	300.0	365.0	3200	5000	6.950
QJ 226 N2MA	130	230	40.0	310.0	400.0	2800	4800	7.750
QJ 228 N2MA	140	250	42.0	345.0	475.0	2600	4300	9.850

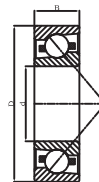
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Bearing Designation	Principal Dimensions			Basic Load Ratings		Speed ratings Lubrication		Mass
	d	D	B	Dynamic	Static	Grease	Oil	
	mm			C (kN)	CO (kN)	rpm		kg
QJ 230 N2MA	150	270	45.0	400.0	570.0	2400	4000	12.500
QJ 232 N2MA	160	290	48.0	450.0	670.0	2200	3800	15.500
QJ 234 N2MA	170	310	52.0	455.0	720.0	2200	3400	19.500
QJ 236 N2MA	180	320	52.0	475.0	765.0	2000	3400	20.500
QJ 240 N2MA	200	360	58.0	540.0	915.0	1800	3000	28.500
QJ 248 N2MA	240	440	72.0	650.0	120.0	-	-	53.000
QJ 252 N2MA	260	480	80.0	728.0	1430.0	-	-	68.000

QJ 303 N2MA	17	47	14.0	23.4	15.0	17000	28000	0.140
QJ 304 MA	20	52	15.0	32.0	21.6	15000	24000	0.180
QJ 305 MA	25	62	17.0	39.0	28.0	12000	20000	0.290
QJ 306 MA	30	72	19.0	53.0	41.5	10000	17000	0.420
QJ 307 MA	35	80	21.0	64.0	51.0	9500	15000	0.570
QJ 308 MA	40	90	23.0	78.0	64.0	8500	14000	0.780
QJ 309 MA	45	100	25.0	100.0	83.0	7500	12000	1.050
QJ 310 MA	50	110	27.0	118.0	100.0	6700	11000	1.350
QJ 311 MA	55	120	29.0	137.0	118.0	6000	10000	1.750
QJ 312 MA	60	130	31.0	156.0	137.0	5600	9000	2.150
QJ 313 MA	65	140	33.0	176.0	156.0	5300	8500	2.700
QJ 314 MA	70	150	35.0	200.0	180.0	4800	8000	3.150
QJ 315 N2MA	75	160	37.0	216.0	200.0	4500	7500	3.900
QJ 316 N2MA	80	170	39.0	232.0	228.0	4300	7000	4.600
QJ 317 N2MA	85	180	41.0	250.0	255.0	4000	6700	5.450

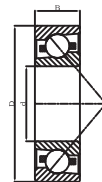
Angular Contact Ball Bearings



Bearing Designation	Principal Dimensions			Basic Load Ratings		Speed ratings Lubrication		Mass
	d	D	B	Dynamic	Static	Grease	Oil	
	mm			C (kN)	CO (kN)	rpm		kg
QJ 318 N2MA	90	190	43	285.0	305.0	3800	6300	6.450
QJ 319 N2MA	95	200	45	305.0	340.0	3600	6000	7.450
QJ 320 N2MA	100	215	47	345.0	400.0	3400	5600	9.300
QJ 322 N2MA	110	240	50	390.0	480.0	3000	4800	12.500
QJ 324 N2MA	120	260	55	415.0	530.0	2800	4500	16.000
QJ 326 N2MA	130	280	58	455.0	610.0	2600	4000	19.500
QJ 328 N2MA	140	300	62	500.0	695.0	2400	3800	24.000
QJ 330 N2MA	150	320	65	530.0	765.0	2200	3600	29.000
QJ 332 N2MA	160	340	68	570.0	880.0	2000	3400	34.500
QJ 334 N2MA	170	360	72	655.0	1040.0	1000	3200	41.500
QJ 336 N2MA	180	380	75	680.0	1020.0	1800	3000	47.500
QJ 338 N2MA	190	400	78	702.0	1116.0	1700	2800	49.000
QJ 344 N2/309829	220	460	88	904.0	1660.0	-	-	78.000
QJ 344 N2MA	220	460	88	780.0	1400.0	-	-	78.000

QJ 1017 N2MA	85	130	22	85.2	102.0	4000	6400	1.100
QJ 1021 N2MA	105	160	26	124.0	156.0	3200	5360	2.000
QJ 1022 N2MA	110	170	28	146.0	186.0	3040	5040	2.500
QJ 1030 N2MA	150	225	35	216.0	305.0	2240	3600	5.250
QJ 1032 N2MA	160	240	38	247.0	355.0	2080	3440	6.450
QJ 1038 N2MA	190	290	46	338.0	510.0	1760	2720	11.500
QJ 1040 N2MA	200	310	51	390.0	620.0	1600	2560	15.000
QJ 1056 N2MA	280	420	65	553.0	1060.0	1120	1920	33.500

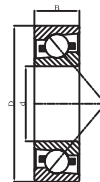
Angular Contact Ball Bearings



Bearing Designation	Principal Dimensions			Basic Load Ratings		Speed ratings Lubrication		Mass
	d	D	B	Dynamic	Static	Grease	Oil	
	mm			C (kN)	CO (kN)	rpm		kg
QJ 1060 MA	300	460	74	650.0	1340.0	1040	1760	47.500
QJ 1064 MA	320	480	74	715.0	1530.0	960	1600	50.000
QJ 1068 N2MA	340	520	82	180.0	1700.0	880	1440	67.500
QJ 1072 N2MA	360	540	82	793.0	1800.0	880	1360	70.500
QJ 1076 N2MA	380	560	82	819.0	1900.0	800	1360	73.500
QJ 1080 N2MA	400	600	90	904.0	2160.0	760	1200	95.500
QJ 1084 N2MA	420	620	90	923.0	2280.0	720	1200	99.500
QJ 1088 N2MA	440	650	94	995.0	2500.0	680	1120	115.000
QJ 1092 N2MA	460	680	100	1040.0	2650.0	640	1040	130.000
QJ 1096 N2MA	480	700	100	1060.0	2800.0	600	1040	135.000

QJ 1240 N2MA	200	360	70	520.0	865.0	1440	2400	32.500
QJ 1244 N2MA	220	400	78	592.0	1020.0	1280	2080	45.500
QJ1248MA/344524	240	440	85	663.0	1220.0	1200	1920	61.000
QJ 1252 MA	260	480	90	741.0	1460.0	1040	1760	78.000
QJ 1256 N2MA	280	500	90	728.0	1460.0	1040	1600	82.000
QJ 1260 N2MA	300	540	98	832.0	1760.0	960	1520	105.000
QJ 1264 N2MA	320	580	105	923.0	2040.0	1760	2240	130.000
QJ1268MA/344524	340	620	118	1060.0	2450.0	800	1280	165.000
QJ 1272 N2MA	360	650	122	1110.0	2600.0	760	1200	190.000
QJ 1276 N2MA	380	680	132	1170.0	2850.0	720	1120	220.000
QJ 1280 N2MA	400	720	140	1300.0	3250.0	640	1040	265.000
QJ 1284 N2MA	420	760	150	1430.0	3750.0	600	1040	315.000

Angular Contact Ball Bearings

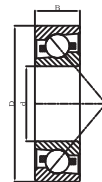


Bearing Designation	Principal Dimensions			Basic Load Ratings		Speed ratings Lubrication		Mass
	d	D	B	Dynamic	Static	Grease	Oil	
	mm			C (kN)	CO (kN)	rpm		kg
QJ 1288 N2MA	440	790	155	1400.0	3750.0	690	1104	350.000
QJ 1292 N2MA	460	830	165	1530.0	4250.0	644	1012	415.000
QJ 1296 N2MA	480	870	170	1680.0	4750.0	616	1012	470.000

QJ 1984 MA	420	560	65	637.0	1600.0	874	1472	51.000
QJ 1988 N2MA	440	600	74	761.0	1900.0	828	1380	65.000

BA2B 459304	20	52	30	30.7	20.8	8280	11960	0.280
BA2B 459306	30	72	38	55.9	42.5	6164	8280	0.680
BA2B 459307	35	80	42	62.4	49.0	5520	7360	0.900
BA2B 459308	40	90	46	79.3	65.5	3956	6440	1.250
BA2B 459309	45	100	50	97.5	81.5	4416	5796	1.700
BA2B 459310	50	110	54	119.0	102.0	3956	5152	2.200
BA2B 459311	55	120	58	138.0	120.0	3496	4600	2.800
BA2B 459312	60	130	62	156.0	140.0	3312	4416	3.500
BA2B 459313	65	140	65	174.0	160.0	2944	3956	4.300
BA2B 459314	70	150	70	195.0	180.0	2760	3680	5.300
BA2B 459317	85	180	82	251.0	265.0	2208	3128	8.900
BA2B 459318	90	190	86	270.0	290.0	2024	2944	10.500
BA2B 459320	100	215	94	325.0	380.0	1748	2576	15.000
BA2B 459322	110	240	100	364.0	450.0	1564	2208	20.000
BA2B 459326	130	280	116	403.0	540.0	1380	1840	35.000
BA2B 459328	140	300	124	449.0	620.0	1288	1748	43.000

Angular Contact Ball Bearings



Bearing Designation	Principal Dimensions			Basic Load Ratings		Speed ratings Lubrication		Mass
	d	D	B	Dynamic	Static	Grease	Oil	
	mm			C (kN)	CO (kN)	rpm		kg
BA2B 459418	90	160	60	178.0	193.0	2392	3312	4.600
BA2B 459420	100	180	68	221.0	245.0	2024	2944	6.600
BA2B 459422	110	200	76	260.0	310.0	1748	2576	9.200
BA2B 459424	120	215	80	270.0	325.0	1564	2208	12.200
BA2B 459428	140	250	84	296.0	390.0	1472	2024	17.700
BA2B 459430	150	270	90	319.0	440.0	1380	1840	23.000
3308 DNRCBM	40	90	36.5	49.4	41.5	6164	6440	1.200
3309 DNRCBM	45	100	39.7	61.8	52.0	5520	5796	1.500
3310 DNRCBM	50	110	44.4	81.9	695.0	4876	5152	1.950
3311 DNRCBM	55	120	49.2	95.6	83.0	4416	4600	2.550
3313 DNRCBM	65	140	58.7	138.0	122.0	3956	4140	4.000