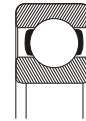


DEEP GROOVE BALL BEARINGS



DEEP GROOVE BALL BEARINGS

Type Code:6



ID Code

ID Code	ID mm
00	10
01	12
02	15
03	17
04	20
/22	22
05	25
/28	28
06	30
/32	32
07	35
.....	

6

3

08

2RS

V2

P5

SIZE DESIGNATION:

- 0: Designate extra light series 60xx
- 2: Designate light series 62xx
- 3: Designate medium light series 63xx
- 4: Designate heavy series 64xx
- 8: Designate super light series 68xx
- 9: Designate super light series 69xx

DESIGNS, TYPES AND FEATURES

- RS: One seal - contact type
- 2RS: Two seals - contact type
- RZ: One non-contact seal
- 2RZ: Two non-contact seals
- Z: One shield
- ZZ: Two shields
- N: With snap ring groove on the outer ring
- M: Solid brass retainer
- NR: With snap ring on the outer ring
- TN: Glass-fiber reinforced nylon cage

V: NOISE & VIBRATION GRADE

- /V1: Adhere to vibration standard V1
- /V2: Adhere to vibration standard V2
- /V3: Adhere to vibration standard V3
- EMQ: Standard electric motor quality
- EMQ6: Quiet running, standard electric motor quality
- EMQ5: Super-quiet running, standard electric motor quality

TOLERANCE CLASS:

- /P0: Equal tolerance class ABEC1
- /P6: Equal tolerance class ABEC3
- /P5: Equal tolerance class ABEC5
- /P4: Equal tolerance class ABEC7
- /P2: Equal tolerance class ABEC9

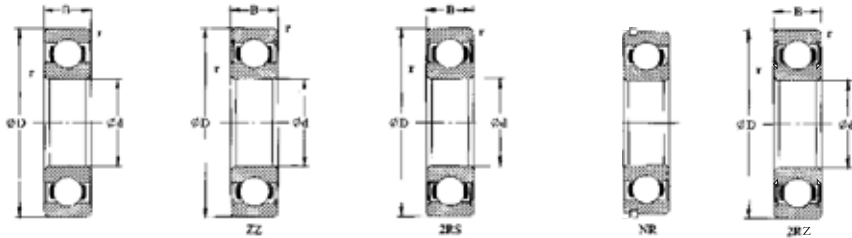
CLEARANCE:

- /C2: Less than normal clearance
- /C0: Normal clearance, omissible
- /C3: Larger clearance than C0
- /C4: Larger clearance than C3
- /C5: Larger clearance than C4

WORKING TEMPERATURE:

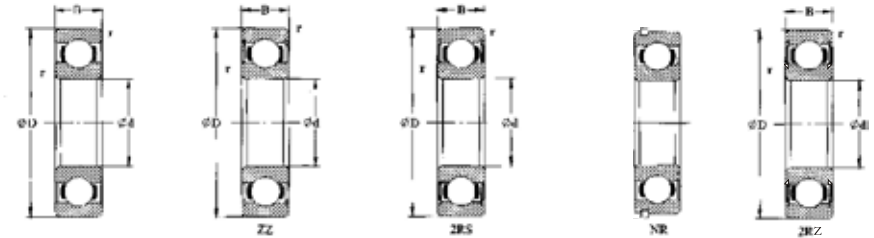
- /S0: Working temperature is up to 150 °C
- /S1: Working temperature is up to 200 °C
- /S2: Working temperature is up to 250 °C
- /S3: Working temperature is up to 300 °C
- /S4: Working temperature is up to 350 °C

DEEP GROOVE BALL BEARINGS



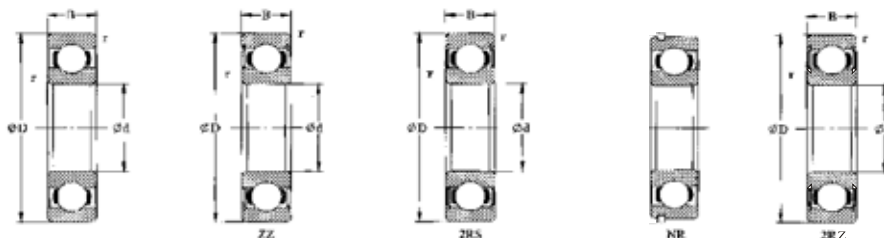
Principal dimensions(mm)				Weight Kg	Bearing Number				Basic Load Rating (kN)		Limiting Speed (rpm)	
d	D	B	r _{min}		Open	W/Shields	W/Seals	W/SnapRing	Dynamic Cr	Static Cor	Grease	Oil
45	120	29	2.0	1.530	6409				77.00	45.00	6300	7400
50	65	7	0.3	0.050	6810	ZZ	2RS		5.94	5.86	9100	10000
	72	12	0.6	0.135	6910	ZZ	2RS		14.04	11.71	8500	10000
	80	10	0.6	0.175	16010	ZZ	2RS		11.88	10.85	8000	9300
	80	16	1.0	0.261	6010	ZZ	2RS	NR	19.62	15.94	8000	9300
	90	20	1.1	0.459	6210	ZZ	2RS	NR	31.50	22.37	6700	7900
	110	27	2.0	1.060	6310	ZZ	2RS	NR	55.80	36.96	6100	7100
55	130	31	2.1	1.880	6410				83.00	49.50	5700	6700
	72	9	0.3	0.081	6811	ZZ	2RS		7.92	7.78	8300	9500
	80	13	1.0	0.189	6911	ZZ	2RS		14.40	12.77	7800	9100
	90	11	0.6	0.257	16011	ZZ	2RS		16.74	14.69	7300	8600
	90	18	1.1	0.381	6011	ZZ	2RS	NR	25.47	20.35	7300	8600
	100	21	1.5	0.619	6211	ZZ	2RS	NR	39.15	28.03	6100	7200
	120	29	2.0	1.370	6311	ZZ	2RS	NR	64.35	43.20	5500	6500
	140	33	2.1	2.290	6411				89.00	54.00	5200	6100
60	78	10	0.3	0.103	6812	ZZ	2RS		10.35	10.18	7600	8900
	85	13	1.0	0.192	6912	ZZ	2RS		14.76	13.73	7200	8500
	95	11	0.6	0.281	16012	ZZ	2RS		18.00	16.80	6700	7900
	95	18	1.1	0.412	6012	ZZ	2RS	NR	26.55	22.27	6700	7900
	110	22	1.5	0.783	6212	ZZ	2RS	NR	47.25	34.56	5700	6700
	130	31	2.1	1.720	6312	ZZ	2RS	NR	73.80	49.92	5100	6000
	150	35	2.1	2.770	6412				102.00	64.50	4800	5700
	85	10	0.6	0.128	6813	ZZ	2RS		10.44	10.56	7000	8300
65	90	13	1.0	0.218	6913	ZZ	2RS		15.66	15.46	6700	7800
	100	11	0.6	0.300	16013	ZZ	2RS		18.45	17.95	6200	7300
	100	18	1.1	0.439	6013	ZZ	2RS	NR	27.45	24.19	6200	7300
	120	23	1.5	1.000	6213	ZZ	2RS	NR	51.75	38.40	5200	6200
	140	33	2.1	2.110	6313	ZZ	2RS	NR	83.25	57.60	4700	5500
	160	37	2.1	3.300	6413				111.00	72.50	4400	5300
70	90	10	0.6	0.134	6814	ZZ	2RS		10.89	11.42	6600	7700
	100	16	1.0	0.349	6914	ZZ	2RS		21.33	20.35	6200	7300
	110	13	0.6	0.441	16014	ZZ	2RS		21.96	21.70	5800	6700
	110	20	1.1	0.608	6014	ZZ	2RS	NR	34.20	29.76	5800	6700
	125	24	1.5	1.090	6214	ZZ	2RS	NR	55.80	42.24	4800	5700
	150	35	2.1	2.570	6314	ZZ	2RS	NR	93.60	65.28	4400	5100
	180	42	3.0	4.830	6414				128.00	89.50	4100	4800
75	95	10	0.6	0.149	6815	ZZ	2RS		11.25	12.38	6100	7200
	105	16	1.0	0.364	6915	ZZ	2RS		21.96	21.70	5800	6800
	115	13	0.6	0.463	16015	ZZ	2RS		22.50	23.04	5400	6400
	115	20	1.1	0.649	6015	ZZ	2RS	NR	35.55	32.16	5400	6400

DEEP GROOVE BALL BEARINGS



Principal dimensions(mm)				Weight Kg	Bearing Number				Basic Load Rating (kN)		Limiting Speed (rpm)	
d	D	B	r _{min}		Open	W/Shields	W/Seals	W/SnapRing	Dynamic Cr	Static Cor	Grease	Oil
75	130	25	1.5	1.190	6215	ZZ	2RS	NR	59.40	47.52	4600	5300
	160	37	2.1	3.080	6315	ZZ	2RS	NR	101.70	73.92	4100	4800
	190	45	3.0	5.720	6415				138.00	99.00	3800	4500
80	100	10	0.6	0.151	6816	ZZ	2RS		11.43	12.77	5700	6700
	110	16	1.0	0.391	6916	ZZ	2RS		22.41	23.04	5400	6400
	125	14	0.6	0.621	16016	ZZ	2RS		22.86	24.10	5000	5900
	125	22	1.1	0.872	6016	ZZ	2RS	NR	42.75	38.40	5000	5900
	140	26	2.0	1.420	6216	ZZ	2RS	NR	65.25	60.48	4300	5000
	170	39	2.1	3.670	6316	ZZ	2RS	NR	110.70	83.04	3800	4500
	200	48	3.0	6.760	6416				164.00	125.00	3600	4200
	110	13	1.0	0.263	6817	ZZ	2RS		16.83	18.24	5400	6400
85	120	18	1.1	0.550	6917	ZZ	2RS		28.80	28.42	5100	6000
	130	14	0.6	0.652	16017	ZZ	2RS		23.31	25.15	4800	5600
	130	22	1.1	0.918	6017	ZZ	2RS	NR	44.55	41.28	4800	5600
	150	28	2.0	1.760	6217	ZZ	2RS	NR	75.15	61.44	4000	4800
	180	41	3.0	4.280	6317	ZZ	2RS	NR	119.70	93.12	3600	4300
	210	52	4.0	7.950	6417				165.00	128.00	3400	4000
90	115	13	1.0	0.276	6818	ZZ	2RS		17.10	18.91	5100	6000
	125	18	1.1	0.585	6918	ZZ	2RS		29.70	30.24	4800	5700
	140	16	1.0	0.873	16018	ZZ	2RS		30.15	32.16	4500	5300
	140	24	1.5	1.190	6018	ZZ	2RS	NR	52.20	47.52	4500	5300
	160	30	2.0	2.180	6218	ZZ	2RS	NR	86.40	68.64	3800	4500
	190	43	3.0	4.980	6318	ZZ	2RS	NR	128.70	102.72	3400	4000
	225	54	4.0	11.40	6418				184.00	148.00	3200	3800
95	120	13	1.0	0.297	6819	ZZ	2RS		17.37	19.68	4800	5600
	130	18	1.1	0.601	6919	ZZ	2RS		30.15	32.16	4600	5400
	145	16	1.0	0.904	16019	ZZ	2RS		31.05	33.60	4300	5000
	145	24	1.5	1.230	6019	ZZ	2RS	NR	54.45	51.84	4300	5000
	170	32	2.1	2.640	6219	ZZ	2RS	NR	98.10	78.72	3500	4200
	200	45	3.0	5.780	6319	ZZ	2RS	NR	137.70	114.24	3100	3700
	240	55	4.0	13.400	6419				186.00	153.00	3000	3500
100	125	13	1.0	0.310	6820	ZZ	2RS	NR	17.64	20.35	4600	5300
	140	20	1.1	0.828	6920	ZZ	2RS	NR	36.90	37.92	4300	5000
	150	24	1.5	1.290	6020	ZZ	2RS	NR	54.00	51.84	4000	4800
	180	34	2.1	3.170	6220	ZZ	2RS	NR	109.80	89.28	3300	4000
	215	47	3.0	7.040	6320	ZZ		NR	155.70	135.36	3000	3500
	250	58	4.0	15.000	6420				206.00	175.00	2900	3400
105	160	26	2.0	1.590	6021	ZZ	2RS	NR	72.50	65.50	4000	4700
	190	36	2.1	3.700	6221	ZZ	2RS	NR	133.00	105.00	3400	4000
	225	49	3.0	8.050	6321	ZZ	2RS		184.00	153.00	3000	3600

DEEP GROOVE BALL BEARINGS



9

Principal dimensions (mm)				Weight Kg	Bearing Number				Basic Load Rating (kN)		Limiting Speed (rpm)	
d	D	B	r _{min}		Open	W/Shields	W/Seals	W/SnapRing	Dynamic Cr	Static Cor	Grease	Oil
105	250	58	4.0	15.000	6420				206.00	175.00	2900	3400
110	170	28	2.0	1.960	6022	ZZ	2RS	NR	82.00	73.00	3800	4500
	200	38	2.1	4.360	6222	ZZ	2RS	NR	144.00	117.00	3200	3800
	240	50	3.0	9.540	6322	ZZ	2RS		205.00	179.00	2900	3400
	280	65	4.0	21.300	6422				247.00	227.00	2600	3000
120	180	28	2.0	2.070	6024	ZZ	2RS	NR	85.00	79.50	3500	4100
	215	40	2.1	5.150	6224	ZZ	2RS		155.00	131.00	2900	3400
	260	55	3.0	12.400	6324				207.00	185.00	2600	3100
	310	72	5.0	29.000	6424				291.00	287.00	2300	2800
130	200	33	2.0	3.160	6026		2RS	NR	106.00	101.00	3200	3800
	230	40	3.0	5.820	6226				167.00	146.00	2700	3100
	280	58	4.0	15.30	6326				229.00	214.00	2400	2800
	340	78	5.0	38.000	6426				300.00	298.00	2200	2500
140	175	18	1.1	0.850	6828	ZZ	R S	NR	39.20	46.00	3400	4000
	190	24	1.5	1.589	6928	ZZ	R S	NR	66.60	71.20	2800	3600
	210	22	1.1	2.004	16028	ZZ	R S	NR	82.10	85.00	3000	3600
	210	33	2.0	3.350	6028	ZZ	R S	NR	111.00	108.00	3000	3500
	250	42	3.0	7.450	6228	ZZ	R S	NR	165.00	125.00	2500	2900
	300	62	3.0	18.500	6328	ZZ	R S	NR	251.10	245.00	2200	2600
150	190	20	1.1	0.980	6830	ZZ	R S	NR	49.10	57.10	3100	3700
	210	28	2.0	2.454	6930	ZZ	R S	NR	84.70	90.20	3000	3500
	225	24	1.1	2.638	16030	ZZ	R S	NR	91.90	98.50	2600	3200
	225	35	2.1	4.800	6030	ZZ	R S	NR	125.00	125.00	2800	3200
	270	45	3.0	9.400	6230	ZZ	R S	NR	174.00	137.00	2300	2700
	320	65	4.0	22.000	6330	ZZ	R S	NR	274.00	284.00	2100	2400
160	200	20	1.1	1.187	6832	ZZ	R S	NR	45.20	55.10	2900	3400
	220	28	2.0	2.589	6932	ZZ	R S	NR	86.90	95.50	2800	3300
	240	25	1.5	4.610	16032	ZZ	R S	NR	72.00	104.00	2400	3000
	240	38	2.1	5.050	6032	ZZ	R S	NR	143.00	144.00	2600	3000
	290	48	3.0	11.700	6232	ZZ	R S	NR	185.00	186.00	2100	2500
	340	68	4.0	26.000	6332	ZZ	R S	NR	278.00	286.00	1900	2300