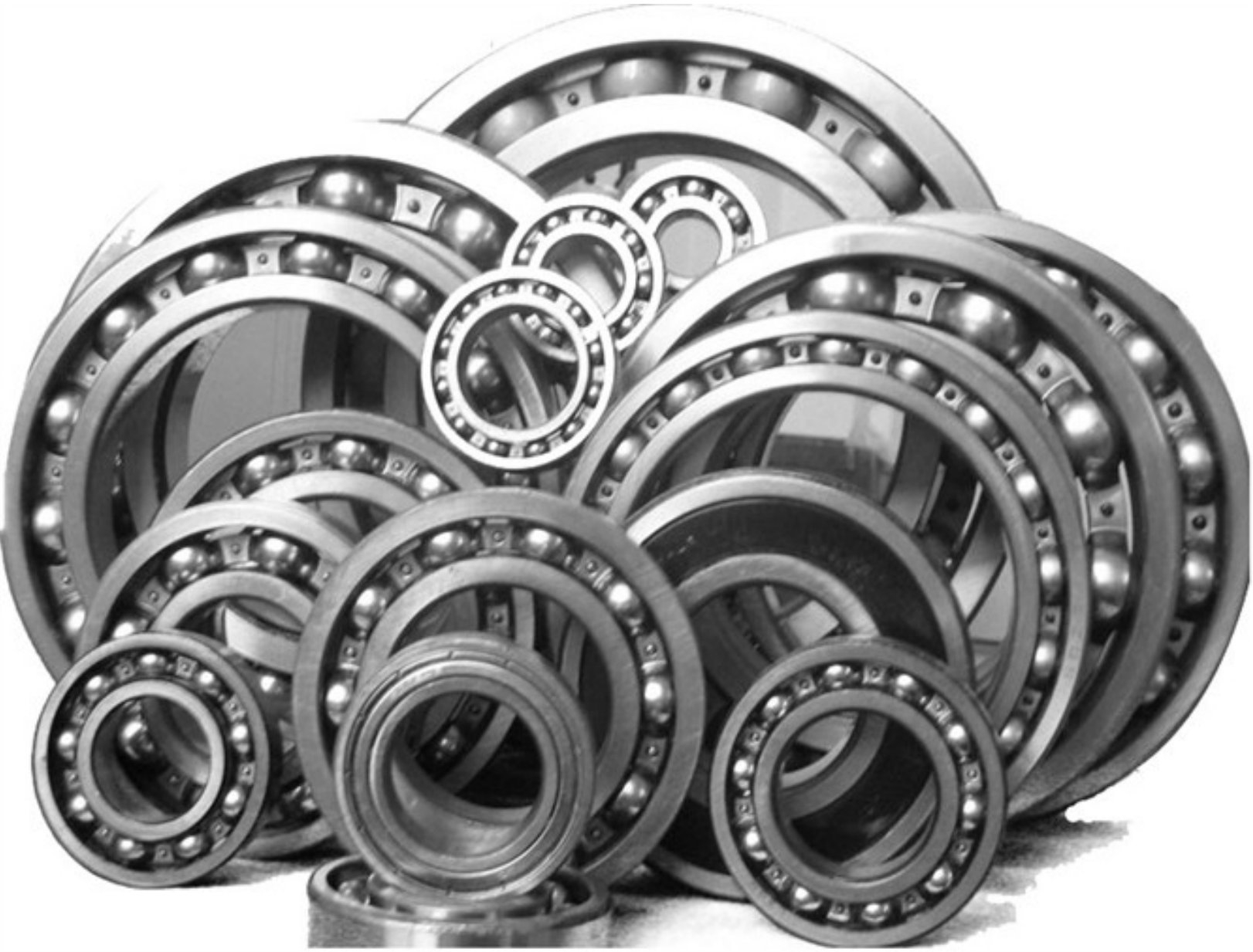
SWS Bearings LTD
High Quality Bearing Manufacturer

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SWS Bearings LTD
High Quality Bearing Manufacturer

SWS Bearings LTD is one of the most reliable bearings factories and exporters in China. We mainly supply roller and ball bearings.

SWS was founded in 2007, located in Changzhou city,jiangsu Province It just takes around 2 hours from Changzhou to Shanghai by car, and very convenient transportation.

In 2009, SWS has invested three factories in Shandong, and Dalian city. Our products sell worldwide.

Our products and service include:

- Miniature and middle-large size deep groove ball bearing
- Double-row self-aligning roller bearing
- Four-row heavy type cylindrical roller bearing
- Self-aligning roller bearing
- Axial thrust ball bearing, thrust ball and roller bearing
- Single and double taper roller bearing
- Needle roller bearing
- High precision spindle bearing
- Pillow block bearing, bush, steel balls
- Technical support
- Maintenance
- Products training

Bore size range:3mm~6.5m
Weight range:10.5g~2.6ton

SWS bearing are widely used in railway, mining, mechanical equipment, automobile, ship, metallurgy, petrifaction, electric power, agriculture, textile and aviation, etc.

SWS products have sell to Europe, Asia, America, south-east Asia, which are our most important market. We have spent much time on developing new products, and also produce top quality products. We are very popular in domestic and abroad.

Welcome your inquiry and Look forward our cooperation in the future.

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Deep Groove Ball Bearings

W 6200-2Z JNR/C3 HC5 GJN

1 2 3 4 5 6 7

1. Prefix

R	MRC inch series
W	Stainless

2. Seals Shields

FF	MRC shield designation SWS Z Metal backed one side of bearing (also SWS 2Z)
RS2	As RS1 but of Fluorocarbon rubber for higher temperatures (also 2RS2)
RSL	As RZ, new design, (also 2RSL)
RSH	As RS1 new design, (Also 2 RSH) for bearings of 60, 62 and 63 series up to 52mm o/d.
RZ	Metal backed non-contact seal on one side (Also 2RZ)
Z	Metal plate
ZZ	MRC seal designation (SWS
2Z	2RS1)Steel plate on 2 sides

3. Cage Design

J	Pressed steel cage, rolling element guided
JEM	Steel cage (J), quiet running, C3 clearance (not marked on bearing)**
M	Machined brass cage, rolling element guided
MA	Machined brass cage, outer ring guided
TC	Phenolic cage, inner ring guided
TN	Polyamide cage
TN9	Fibreglass reinforced Polyamide
Y	Pressed Brass cage, ball guided

4. Modification

C	MRC designation for Cartridge type bearing
N	Snap ring groove
NR	Snap ring & groove
N1,N2	1 or 2 locating notches
S	MRC Conrad type
VL0241	Electrical insulation of outer ring
VL2071	Electrical insulation of inner ring

5. Clearance/Tolerances

C1	Clearance < C2
C2	Clearance < Normal
C0,CN	Normal not shown
C3	Clearance > C0 or CN
C4	Clearance > C3
C78	P5 or ABEC 5 tolerance
C782	C78 + C2
C783	C78 + C3
P5	Tolerance to IS0 class 5 or ABEC 5

** If sealed, use GJN grease

6. Special offerings

HC4	Full Ceramic bearing
HC5	Ceramic ball set
HYB	MRC hybrid bearing
VA201	Special specification for kiln trucks
VA 208	Graphite segment cage for hi- temp applications
VA 228	Graphite cage for hi-temp applications

7. Lubrication

GJN	Di-urea, Hi-temp.115 cSt @ 40°C, range -40°C to + 150°C
GMB	Lithium, Medium temp.120 cSt @ 40°C, -30°C to + 110°C
HT 51	Polyurea hi-temp, 110 cSt @ 40°C, -30°C to + 140°C
LHT 23	Lithium,Wide range, 26 cSt @ 40°C, -50°C to + 140°C
LHT 30	Lithium, Wide range, 74 cSt at 40°C, -40°C to +180°C
LHT 64	Clay, Wide range,13 cSt @ 40°C, -73°C to + 149°C
MT33*	Lithium, Medium temp. 74 cSt @ 40°C, -30°C to + 120°C
MT47*	Lithium, Medium temp. 70 cSt @ 40°C, -30°C to + 110°C
W64	Solid oil, various types available depending on the temperature range.

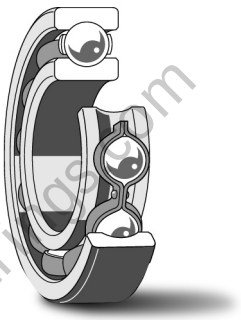
* See page 31 (top)

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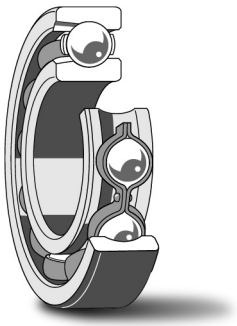
Deep groove ball bearings

Technical Features

Boundary Dimensions	In accordance with ISO 15:1998
Tolerances	<52mm OD ABEC 5 (ISO P5) 52mm <110 mm ABEC 3 (ISO P6) >110 mm OD ABEC 1 (Normal)
Heat Stabilization	257°F (125°C) Operating temperature -40°C to + 100°C or 120°C for short periods
Misalignment	2 minutes of arc
Cage Material Standard	Steel (J generally not shown) Optional Machined brass (M, MA) Polyamide (TN9)
Axial load - max	0.5xC_0 for 6200, 6300 and 6400 series 0.25xC_0 for 61800, 61900 and 6000 series
Seals and Shields	2RS1 - Nitrile rubber seals 2RS2 - Fluorocarbon seals (high temp) 2RZ - Nitrile rubber seals non-contact 2RSL - Nitrile rubber seals non-contact, new design 2RSH - Nitrile rubber seals, new design 2Z - Metal shields



Single Row Deep Groove Ball Bearing



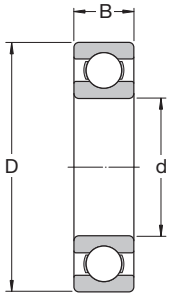
Single Row Deep Groove Ball Bearing Max Type

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Single row deep groove ball bearings

d **3 - 12** mm

d **0.118 - 0.472** in



Principal dimensions						Basic load ratings		Fatigue load limit	Speed ratings		Mass	Designation
						dynamic	static		Reference speed	Limiting speed		
d	D	B	d	D	B	C	C_0	P_u				
mm			in			kN		kN	r/min		kg	–
3	10	4	**0.118**	0.394	0.157	0.54	0.18	0.007	130 000	80 000	0.0015	**623**
4	9	2.5	**0.157**	0.354	0.098	0.54	0.18	0.007	140 000	85 000	0.0007	**618/4**
	11	4		0.433	0.157	0.715	0.232	0.01	130 000	80 000	0.0017	**619/4**
	12	4		0.472	0.157	0.806	0.28	0.012	120 000	75 000	0.0021	**604**
	13	5		0.512	0.197	0.936	0.29	0.012	110 000	67 000	0.0031	**624**
	16	5		0.630	0.197	1.11	0.38	0.016	95 000	60 000	0.0054	**634**
5	11	3	**0.197**	0.433	0.118	0.637	0.255	0.011	120 000	75 000	0.0012	**618/5**
	13	4		0.512	0.157	0.884	0.34	0.014	110 000	67 000	0.0025	**619/5**
	16	5		0.630	0.197	1.14	0.38	0.016	95 000	60 000	0.005	***625**
	19	6		0.748	0.236	2.34	0.95	0.04	80 000	50 000	0.009	***635**
6	13	3.5	**0.236**	0.512	0.138	0.884	0.345	0.015	110 000	67 000	0.002	**618/6**
	15	5		0.591	0.197	1.24	0.475	0.02	100 000	63 000	0.0039	**619/6**
	19	6		0.748	0.236	2.34	0.95	0.04	80 000	50 000	0.0084	***626**
7	14	3.5	**0.276**	0.551	0.138	0.956	0.4	0.017	100 000	63 000	0.0022	**618/7**
	17	5		0.669	0.197	1.48	0.56	0.024	90 000	56 000	0.0049	**619/7**
	19	6		0.748	0.236	2.34	0.95	0.04	85 000	53 000	0.0075	***607**
	22	7		0.866	0.276	3.45	1.37	0.057	70 000	45 000	0.013	***627**
8	16	4	**0.315**	0.630	0.157	1.33	0.57	0.024	90 000	56 000	0.003	**618/8**
	19	6		0.748	0.236	1.9	0.735	0.031	80 000	50 000	0.0071	**619/8**
	22	7		0.866	0.276	3.45	1.37	0.057	75 000	48 000	0.012	***608**
	24	8		0.945	0.315	3.9	1.66	0.071	63 000	40 000	0.017	***628**
9	17	4	**0.354**	0.669	0.157	1.43	0.64	0.027	85 000	53 000	0.0034	**618/9**
	20	6		0.787	0.236	2.08	0.865	0.036	80 000	48 000	0.0076	**619/9**
	24	7		0.945	0.276	3.9	1.66	0.071	70 000	43 000	0.014	***609**
	26	8		1.024	0.315	4.75	1.96	0.083	60 000	38 000	0.02	***629**
10	19	5	**0.394**	0.748	0.197	1.38	0.585	0.025	80 000	48 000	0.0055	**61800**
	22	6		0.866	0.236	2.08	0.85	0.036	75 000	45 000	0.01	**61900**
	26	8		1.024	0.315	4.75	1.96	0.083	67 000	40 000	0.019	***6000**
	28	8		1.102	0.315	4.62	1.96	0.083	63 000	40 000	0.022	**16100**
	30	9		1.181	0.354	5.4	2.36	0.1	56 000	34 000	0.032	***6200**
	35	11		1.378	0.433	8.52	3.4	0.143	50 000	32 000	0.053	***6300**
12	21	5	**0.472**	0.827	0.197	1.43	0.67	0.028	70 000	43 000	0.0063	**61801**
	24	6		0.945	0.236	2.25	0.98	0.043	67 000	40 000	0.011	**61901**
	28	8		1.102	0.315	5.4	2.36	0.1	60 000	38 000	0.022	***6001**
	30	8		1.181	0.315	5.07	2.36	0.1	56 000	34 000	0.023	**16101**
	32	10		1.260	0.394	7.28	3.1	0.132	50 000	32 000	0.037	***6201**
	37	12		1.457	0.472	10.1	4.15	0.176	45 000	28 000	0.06	***6301**

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Single row deep groove ball bearings

d **15 - 25** mm
d **0.591 - 0.984** in

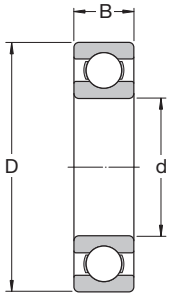
Principal dimensions						Basic load ratings		Fatigue load limit	Speed ratings		Mass	Designation
						dynamic	static		Reference speed	Limiting speed		
d	D	B	d	D	B	C	C_0	P_u				
mm			in			kN		kN	r/min		kg	–
15	24	5	**0.591**	0.945	0.197	1.56	0.8	0.034	60 000	38 000	0.0074	**61802**
	28	7		1.102	0.276	4.36	2.24	0.095	56 000	34 000	0.016	**61902**
	32	8		1.260	0.315	5.85	2.85	0.12	50 000	32 000	0.025	***16002**
	32	9		1.260	0.354	5.85	2.85	0.12	50 000	32 000	0.03	***6002**
	35	11		1.378	0.433	8.06	3.75	0.16	43 000	28 000	0.045	***6202**
	42	13		1.654	0.512	11.9	5.4	0.228	38 000	24 000	0.082	***6302**
17	26	5	**0.669**	1.024	0.197	1.68	0.93	0.039	56 000	34 000	0.0082	**61803**
	30	7		1.181	0.276	4.62	2.55	0.108	50 000	32 000	0.018	**61903**
	35	8		1.378	0.315	6.37	3.25	0.137	45 000	28 000	0.032	***16003**
	35	10		1.378	0.394	6.37	3.25	0.137	45 000	28 000	0.039	***6003**
	40	9		1.575	0.354	9.56	4.75	0.2	38 000	24 000	0.048	**98203**
	40	12		1.575	0.472	9.95	4.75	0.2	38 000	24 000	0.065	***6203**
	40	12		1.575	0.472	11.4	5.4	0.228	38 000	24 000	0.064	**6203 ETN9**
	47	14		1.850	0.551	14.3	6.55	0.275	34 000	22 000	0.12	***6303**
	62	17		2.441	0.669	22.9	10.8	0.455	28 000	18 000	0.27	**6403**
20	32	7	**0.787**	1.260	0.276	4.03	2.32	0.104	45 000	28 000	0.018	**61804**
	37	9		1.457	0.354	6.37	3.65	0.156	43 000	26 000	0.038	**61904**
	42	8		1.654	0.315	7.28	4.05	0.173	38 000	24 000	0.05	***16004**
	42	9		1.654	0.354	7.93	4.5	0.19	38 000	24 000	0.051	**98204 Y**
	42	12		1.654	0.472	9.95	5	0.212	38 000	24 000	0.069	***6004**
	47	14		1.850	0.551	13.5	6.55	0.28	32 000	20 000	0.11	***6204**
	47	14		1.850	0.551	15.6	7.65	0.325	32 000	20 000	0.096	**6204 ETN9**
	52	15		2.047	0.591	16.8	7.8	0.335	30 000	19 000	0.14	***6304**
	52	15		2.047	0.591	18.2	9	0.38	30 000	19 000	0.14	**6304 ETN9**
	72	19		2.835	0.748	30.7	15	0.64	24 000	15 000	0.4	**6404**
22	50	14	**0.866**	1.969	0.551	14	7.65	0.325	30 000	19 000	0.12	**62/22**
	56	16		2.205	0.630	18.6	9.3	0.39	28 000	18 000	0.18	**63/22**
25	37	7	**0.984**	1.457	0.276	4.36	2.6	0.125	38 000	24 000	0.022	**61805**
	42	9		1.654	0.354	7.02	4.3	0.193	36 000	22 000	0.045	**61905**
	47	8		1.850	0.315	8.06	4.75	0.212	32 000	20 000	0.06	***16005**
	47	12		1.850	0.472	11.9	6.55	0.275	32 000	20 000	0.08	***6005**
	52	9		2.047	0.354	10.6	6.55	0.28	28 000	18 000	0.078	**98205**
	52	15		2.047	0.591	14.8	7.8	0.335	28 000	18 000	0.13	***6205**
	52	15		2.047	0.591	17.8	9.8	0.4	28 000	18 000	0.12	**6205 ETN9**
	62	17		2.441	0.669	23.4	11.6	0.49	24 000	16 000	0.23	***6305**
	62	17		2.441	0.669	26	13.4	0.57	24 000	16 000	0.21	**6305 ETN9**
	80	21		3.150	0.827	35.8	19.3	0.82	20 000	13 000	0.53	**6405**

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Single row deep groove ball bearings

d **28 - 50** mm

d **1.102 - 1.969** in



Principal dimensions						Basic load ratings		Fatigue load limit	Speed ratings		Mass	Designation
						dynamic	static		Reference speed	Limiting speed		
d	D	B	d	D	B	C	C_0	P_u				
mm			in			kN		kN	r/min		kg	–
28	58	16	**1.102**	2.283	0.630	16.8	9.5	0.405	26 000	16 000	0.18	**62/28**
	68	18		2.677	0.709	25.1	13.7	0.585	22 000	14 000	0.29	**63/28**
30	42	7	**1.181**	1.654	0.276	4.49	2.9	0.146	32 000	20 000	0.027	**61806**
	47	9		1.850	0.354	7.28	4.55	0.212	30 000	19 000	0.051	**61906**
	55	9		2.165	0.354	11.9	7.35	0.31	28 000	17 000	0.085	***16006**
	55	13		2.165	0.512	13.8	8.3	0.355	28 000	17 000	0.12	***6006**
	62	10		2.441	0.394	15.9	10.2	0.44	22 000	14 000	0.12	**98206**
	62	16		2.441	0.630	20.3	11.2	0.48	24 000	15 000	0.2	***6206**
	62	16		2.441	0.630	23.4	12.9	0.54	24 000	15 000	0.19	**6206 ETN9**
	72	19		2.835	0.748	29.6	16	0.67	20 000	13 000	0.35	***6306**
	72	19		2.835	0.748	32.5	17.3	0.74	22 000	14 000	0.33	**6306 ETN9**
	90	23		3.543	0.906	43.6	23.6	1	18 000	11 000	0.74	**6406**
35	47	7	**1.378**	1.850	0.276	4.75	3.2	0.17	28 000	18 000	0.03	**61807**
	55	10		2.165	0.394	9.56	6.8	0.29	26 000	16 000	0.08	**61907**
	62	9		2.441	0.354	13	8.15	0.38	24 000	15 000	0.11	***16007**
	62	14		2.441	0.551	16.8	10.2	0.44	24 000	15 000	0.16	***6007**
	72	17		2.835	0.669	27	15.3	0.66	20 000	13 000	0.29	***6207**
	72	17		2.835	0.669	31.2	17.6	0.75	20 000	13 000	0.27	**6207 ETN9**
	80	21		3.150	0.827	35.1	19	0.82	19 000	12 000	0.46	***6307**
	100	25		3.937	0.984	55.3	31	1.29	16 000	10 000	0.95	**6407**
40	52	7	**1.575**	2.047	0.276	4.94	3.45	0.19	26 000	16 000	0.034	**61808**
	62	12		2.441	0.472	13.8	10	0.43	24 000	14 000	0.12	**61908**
	68	9		2.677	0.354	13.8	9.15	0.44	22 000	14 000	0.13	***16008**
	68	15		2.677	0.591	17.8	11.6	0.49	22 000	14 000	0.19	***6008**
	80	18		3.150	0.709	32.5	19	0.8	18 000	11 000	0.37	***6208**
	80	18		3.150	0.709	35.8	20.8	0.88	18 000	11 000	0.34	**6208 ETN9**
	90	23		3.543	0.906	42.3	24	1.02	17 000	11 000	0.63	***6308**
	110	27		4.331	1.063	63.7	36.5	1.53	14 000	9 000	1.25	**6408**
45	58	7	**1.772**	2.283	0.276	6.63	6.1	0.26	22 000	14 000	0.04	**61809**
	68	12		2.677	0.472	14	10.8	0.47	20 000	13 000	0.14	**61909**
	75	10		2.953	0.394	16.5	10.8	0.52	20 000	12 000	0.17	***16009**
	75	16		2.953	0.630	22.1	14.6	0.64	20 000	12 000	0.25	***6009**
	85	19		3.346	0.748	35.1	21.6	0.92	17 000	11 000	0.41	***6209**
	100	25		3.937	0.984	55.3	31.5	1.34	15 000	9 500	0.83	***6309**
	120	29		4.724	1.142	76.1	45	1.9	13 000	8 500	1.55	**6409**
50	65	7	**1.969**	2.559	0.276	6.76	6.8	0.285	20 000	13 000	0.052	**61810**
	72	12		2.835	0.472	14.6	11.8	0.5	19 000	12 000	0.14	**61910**
	80	10		3.150	0.394	16.8	11.4	0.56	18 000	11 000	0.18	***16010**
	80	16		3.150	0.630	22.9	16	0.71	18 000	11 000	0.26	***6010**
	90	20		3.543	0.787	37.1	23.2	0.98	15 000	10 000	0.46	***6210**
	110	27		4.331	1.063	65	38	1.6	13 000	8 500	1.05	***6310**
	130	31		5.118	1.220	87.1	52	2.2	12 000	7 500	1.9	**6410**

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Single row deep groove ball bearings

d **55 - 80** mm

d **2.165 - 3.150** in

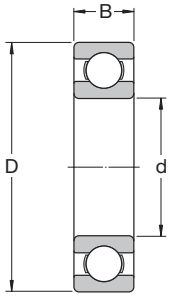
Principal dimensions						Basic load ratings		Fatigue load limit	Speed ratings		Mass	Designation
						dynamic	static		Reference speed	Limiting speed		
d	D	B	d	D	B	C	C_0	P_u				
mm			in			kN		kN	r/min		kg	–
55	72	9	**2.165**	2.835	0.354	9.04	8.8	0.38	19 000	12 000	0.083	**61811**
	80	13		3.150	0.512	16.5	14	0.6	17 000	11 000	0.19	**61911**
	90	11		3.543	0.433	20.3	14	0.7	16 000	10 000	0.26	***16011**
	90	18		3.543	0.709	29.6	21.2	0.9	16 000	10 000	0.39	***6011**
	100	21		3.937	0.827	46.2	29	1.25	14 000	9 000	0.61	***6211**
	120	29		4.724	1.142	74.1	45	1.9	12 000	8 000	1.35	***6311**
	140	33		5.512	1.299	99.5	62	2.6	11 000	7 000	2.3	**6411**
60	78	10	**2.362**	3.071	0.394	11.9	11.4	0.49	17 000	11 000	0.11	**61812**
	85	13		3.346	0.512	16.5	14.3	0.6	16 000	10 000	0.2	**61912**
	95	11		3.740	0.433	20.8	15	0.74	15 000	9 500	0.28	***16012**
	95	18		3.740	0.709	30.7	23.2	0.98	15 000	9 500	0.42	***6012**
	110	22		4.331	0.866	55.3	36	1.53	13 000	8 000	0.78	***6212**
	130	31		5.118	1.220	85.2	52	2.2	11 000	7 000	1.7	***6312**
	150	35		5.906	1.378	108	69.5	2.9	10 000	6 300	2.75	**6412**
65	85	10	**2.559**	3.346	0.394	12.4	12.7	0.54	16 000	10 000	0.13	**61813**
	90	13		3.543	0.512	17.4	16	0.68	15 000	9 500	0.22	**61913**
	100	11		3.937	0.433	22.5	16.6	0.83	14 000	9 000	0.3	***16013**
	100	18		3.937	0.709	31.9	25	1.06	14 000	9 000	0.44	***6013**
	120	23		4.724	0.906	58.5	40.5	1.73	12 000	7 500	0.99	***6213**
	140	33		5.512	1.299	97.5	60	2.5	10 000	6 700	2.1	***6313**
	160	37		6.299	1.457	119	78	3.15	9 500	6 000	3.3	**6413**
70	90	10	**2.756**	3.543	0.394	12.4	13.2	0.56	15 000	9 000	0.14	**61814**
	100	16		3.937	0.630	23.8	21.2	0.9	14 000	8 500	0.35	**61914**
	110	13		4.331	0.512	29.1	25	1.06	13 000	8 000	0.43	***16014**
	110	20		4.331	0.787	39.7	31	1.32	13 000	8 000	0.6	***6014**
	125	24		4.921	0.945	63.7	45	1.9	11 000	7 000	1.05	***6214**
	150	35		5.906	1.378	111	68	2.75	9 500	6 300	2.5	***6314**
	180	42		7.087	1.654	143	104	3.9	8 500	5 300	4.85	**6414**
75	95	10	**2.953**	3.740	0.394	12.7	14.3	0.61	14 000	8 500	0.15	**61815**
	105	16		4.134	0.630	24.2	19.3	0.965	13 000	8 000	0.37	**61915**
	110	12		4.331	0.472	28.6	27	1.14	13 000	8 000	0.38	**16115**
	115	13		4.528	0.512	30.2	27	1.14	12 000	7 500	0.46	***16015**
	115	20		4.528	0.787	41.6	33.5	1.43	12 000	7 500	0.64	***6015**
	130	25		5.118	0.984	68.9	49	2.04	10 000	6 700	1.2	***6215**
	160	37		6.299	1.457	119	76.5	3	9 000	5 600	3	***6315**
	190	45		7.480	1.772	153	114	4.15	8 000	5 000	6.8	**6415**
80	100	10	**3.150**	3.937	0.394	13	15	0.64	13 000	8 000	0.15	**61816**
	110	16		4.331	0.630	25.1	20.4	1.02	12 000	7 500	0.4	**61916**
	125	14		4.921	0.551	35.1	31.5	1.32	11 000	7 000	0.6	***16016**
	125	22		4.921	0.866	49.4	40	1.66	11 000	7 000	0.85	***6016**
	140	26		5.512	1.024	72.8	55	2.2	9 500	6 000	1.4	***6216**
	170	39		6.693	1.535	130	86.5	3.25	8 500	5 300	3.6	***6316**
	200	48		7.874	1.890	163	125	4.5	7 500	4 800	8	**6416**

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Single row deep groove ball bearings

d **85 - 110** mm

d **3.346 - 4.331** in



Principal dimensions						Basic load ratings		Fatigue load limit	Speed ratings		Mass	Designation
						dynamic	static		Reference speed	Limiting speed		
d	D	B	d	D	B	C	C_0	P_u				
mm			in			kN		kN	r/min		kg	–
85	110	13	**3.346**	4.331	0.512	19.5	20.8	0.88	12 000	7 500	0.27	**61817**
	120	18		4.724	0.709	31.9	30	1.25	11 000	7 000	0.55	**61917**
	130	14		5.118	0.551	35.8	33.5	1.37	11 000	6 700	0.63	***16017**
	130	22		5.118	0.866	52	43	1.76	11 000	6 700	0.89	***6017**
	150	28		5.906	1.102	87.1	64	2.5	9 000	5 600	1.8	***6217**
	180	41		7.087	1.614	140	96.5	3.55	8 000	5 000	4.25	***6317**
	210	52		8.268	2.047	174	137	4.75	7 000	4 500	9.5	**6417**
90	115	13	**3.543**	4.528	0.512	19.5	22	0.915	11 000	7 000	0.28	**61818**
	125	18		4.921	0.709	33.2	31.5	1.23	11 000	6 700	0.59	**61918**
	140	16		5.512	0.630	43.6	39	1.56	10 000	6 300	0.85	***16018**
	140	24		5.512	0.945	60.5	50	1.96	10 000	6 300	1.15	***6018**
	160	30		6.299	1.181	101	73.5	2.8	8 500	5 300	2.15	***6218**
	190	43		7.480	1.693	151	108	3.8	7 500	4 800	4.9	***6318**
	225	54		8.858	2.126	186	150	5	6 700	4 300	11.5	**6418**
95	120	13	**3.740**	4.724	0.512	19.9	22.8	0.93	11 000	6 700	0.3	**61819**
	130	18		5.118	0.709	33.8	33.5	1.43	10 000	6 300	0.61	**61919**
	145	16		5.709	0.630	44.8	41.5	1.63	9 500	6 000	0.89	***16019**
	145	24		5.709	0.945	63.7	54	2.08	9 500	6 000	1.2	***6019**
	170	32		6.693	1.260	114	81.5	3	8 000	5 000	2.6	***6219**
	200	45		7.874	1.772	159	118	4.15	7 000	4 500	5.65	***6319**
100	125	13	**3.937**	4.921	0.512	19.9	24	0.95	10 000	6 300	0.31	**61820**
	140	20		5.512	0.787	42.3	41	1.63	9 500	6 000	0.83	**61920**
	150	16		5.906	0.630	46.2	44	1.73	9 500	5 600	0.91	***16020**
	150	24		5.906	0.945	63.7	54	2.04	9 500	5 600	1.25	***6020**
	180	34		7.087	1.339	127	93	3.35	7 500	4 800	3.15	***6220**
	215	47		8.465	1.850	174	140	4.75	6 700	4 300	7	**6320**
105	130	13	**4.134**	5.118	0.512	20.8	19.6	1	10 000	6 300	0.32	**61821**
	145	20		5.709	0.787	44.2	44	1.7	9 500	5 600	0.87	**61921**
	160	18		6.299	0.709	54	51	1.86	8 500	5 300	1.2	***16021**
	160	26		6.299	1.024	76.1	65.5	2.4	8 500	5 300	1.6	***6021**
	190	36		7.480	1.417	140	104	3.65	7 000	4 500	3.7	***6221**
	225	49		8.858	1.929	182	153	5.1	6 300	4 000	8.25	**6321**
110	140	16	**4.331**	5.512	0.630	28.1	26	1.25	9 500	5 600	0.6	**61822**
	150	20		5.906	0.787	43.6	45	1.66	9 000	5 600	0.9	**61922**
	170	19		6.693	0.748	60.2	57	2.04	8 000	5 000	1.45	***16022**
	170	28		6.693	1.102	85.2	73.5	2.4	8 000	5 000	1.95	***6022**
	200	38		7.874	1.496	151	118	4	6 700	4 300	4.35	***6222**
	240	50		9.449	1.969	203	180	5.7	6 000	3 800	9.55	**6322**

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Single row deep groove ball bearings

d **120 - 180** mm
d **4.724 - 7.087** in

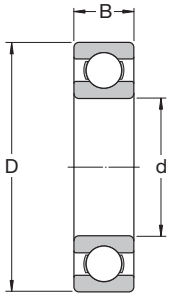
Principal dimensions						Basic load ratings		Fatigue load limit	Speed ratings		Mass	Designation
						dynamic	static		Reference speed	Limiting speed		
d	D	B	d	D	B	C	C_0	P_u				
mm			in			kN		kN	r/min		kg	–
120	150	16	**4.724**	5.906	0.630	29.1	28	1.29	8 500	5 300	0.65	**61824**
	165	22		6.496	0.866	55.3	57	2.04	8 000	5 000	1.2	**61924**
	180	19		7.087	0.748	63.7	64	2.2	7 500	4 800	1.6	***16024**
	180	28		7.087	1.102	88.4	80	2.75	7 500	4 800	2.05	***6024**
	215	40		8.465	1.575	146	118	3.9	6 300	4 000	5.15	**6224**
	260	55		10.236	2.165	208	186	5.7	5 600	3 400	12.5	**6324**
130	165	18	**5.118**	6.496	0.709	37.7	43	1.6	8 000	4 800	0.93	**61826**
	180	24		7.087	0.945	65	67	2.28	7 500	4 500	1.85	**61926**
	200	22		7.874	0.866	83.2	81.5	2.7	7 000	4 300	2.35	***16026**
	200	33		7.874	1.299	112	100	3.35	7 000	4 300	3.15	***6026**
	230	40		9.055	1.575	156	132	4.15	5 600	3 600	5.8	**6226**
	280	58		11.024	2.283	229	216	6.3	5 000	3 200	17.5	**6326 M**
140	175	18	**5.512**	6.890	0.709	39	46.5	1.66	7 500	4 500	0.99	**61828**
	190	24		7.480	0.945	66.3	72	2.36	7 000	5 600	1.7	**61928 MA**
	210	22		8.268	0.866	80.6	86.5	2.8	6 700	4 000	2.5	**16028**
	210	33		8.268	1.299	111	108	3.45	6 700	4 000	3.35	**6028**
	250	42		9.843	1.654	165	150	4.55	5 300	3 400	7.45	**6228**
	300	62		11.811	2.441	251	245	7.1	4 800	4 300	22	**6328 M**
150	190	20	**5.906**	7.480	0.787	48.8	61	1.96	6 700	4 300	1.4	**61830**
	210	28		8.268	1.102	88.4	93	2.9	6 300	5 300	3.05	**61930 MA**
	225	24		8.858	0.945	92.2	98	3.05	6 000	3 800	3.15	**16030**
	225	35		8.858	1.378	125	125	3.9	6 000	3 800	4.8	**6030**
	270	45		10.630	1.772	174	166	4.9	5 000	3 200	9.4	**6230**
	320	65		12.598	2.559	276	285	7.8	4 300	4 000	26	**6330 M**
160	200	20	**6.299**	7.874	0.787	49.4	64	2	6 300	4 000	1.45	**61832**
	220	28		8.661	1.102	92.3	98	3.05	6 000	5 000	3.25	**61932 MA**
	240	25		9.449	0.984	99.5	108	3.25	5 600	3 600	3.7	**16032**
	240	38		9.449	1.496	143	143	4.3	5 600	3 600	5.9	**6032**
	290	48		11.417	1.890	186	186	5.3	4 500	3 000	14.5	**6232**
	340	68		13.386	2.677	276	285	7.65	4 000	3 800	29	**6332 M**
170	215	22	**6.693**	8.465	0.866	61.8	78	2.4	6 000	3 600	1.9	**61834**
	230	28		9.055	1.102	93.6	106	3.15	5 600	4 800	3.4	**61934 MA**
	260	28		10.236	1.102	119	129	3.75	5 300	3 200	5	**16034**
	260	42		10.236	1.654	168	173	5	5 300	4 300	7.9	**6034 M**
	310	52		12.205	2.047	212	224	6.1	4 300	3 800	17.5	**6234 M**
	360	72		14.173	2.835	312	340	8.8	3 800	3 400	34.5	**6334 M**
180	225	22	**7.087**	8.858	0.866	62.4	81.5	2.45	5 600	3 400	2	**61836**
	250	33		9.843	1.299	119	134	3.9	5 300	4 300	5.05	**61936 MA**
	280	31		11.024	1.220	138	146	4.15	4 800	4 000	6.6	**16036**
	280	46		11.024	1.811	190	200	5.6	4 800	4 000	10.5	**6036 M**
	320	52		12.598	2.047	229	240	6.4	4 000	3 600	18.5	**6236 M**
	380	75		14.961	2.953	351	405	10.4	3 600	3 200	42.5	**6336 M**

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Single row deep groove ball bearings

d **190 - 320** mm

d **7.480 - 12.598** in



Principal dimensions						Basic load ratings		Fatigue load limit	Speed ratings		Mass	Designation
						dynamic	static		Reference speed	Limiting speed		
d	D	B	d	D	B	C	C_0	P_u				
mm			in			kN		kN	r/min		kg	–
190	240	24	**7.480**	9.449	0.945	76.1	98	2.8	5 300	3 200	2.6	**61838**
	260	33		10.236	1.299	117	134	3.8	5 000	4 300	5.25	**61938 MA**
	290	31		11.417	1.220	148	166	4.55	4 800	3 000	7.9	**16038**
	290	46		11.417	1.811	195	216	5.85	4 800	3 800	11	**6038 M**
	340	55		13.386	2.165	255	280	7.35	3 800	3 400	23	**6238 M**
	400	78		15.748	3.071	371	430	10.8	3 400	3 000	49	**6338 M**
200	250	24	**7.874**	9.843	0.945	76.1	102	2.9	5 000	3 200	2.7	**61840**
	280	38		11.024	1.496	148	166	4.55	4 800	3 800	7.4	**61940 MA**
	310	34		12.205	1.339	168	190	5.1	4 300	2 800	8.85	**16040**
	310	51		12.205	2.008	216	245	6.4	4 300	3 600	14	**6040 M**
	360	58		14.173	2.283	270	310	7.8	3 600	3 200	28	**6240 M**
220	270	24	**8.661**	10.630	0.945	78	110	3	4 500	2 800	3	**61844**
	300	38		11.811	1.496	151	180	4.75	4 300	3 600	8	**61944 MA**
	340	37		13.386	1.457	174	204	5.2	4 000	2 400	11.5	**16044**
	340	56		13.386	2.205	247	290	7.35	4 000	3 200	18.5	**6044 M**
	400	65		15.748	2.559	296	365	8.8	3 200	3 000	37	**6244 M**
	460	88		18.110	3.465	410	520	12	3 000	2 600	72.5	**6344 M**
240	300	28	**9.449**	11.811	1.102	108	150	3.8	4 000	2 600	4.5	**61848**
	320	38		12.598	1.496	159	200	5.1	4 000	3 200	8.6	**61948 MA**
	360	37		14.173	1.457	178	220	5.3	3 600	3 000	14.5	**16048 MA**
	360	56		14.173	2.205	255	315	7.8	3 600	3 000	19.5	**6048 M**
	440	72		17.323	2.835	358	465	10.8	3 000	2 600	51	**6248 M**
	500	95		19.685	3.740	442	585	12.9	2 600	2 400	92.5	**6348 M**
260	320	28	**10.236**	12.598	1.102	111	163	4	3 800	2 400	4.8	**61852**
	360	46		14.173	1.811	212	270	6.55	3 600	3 000	14.5	**61952 MA**
	400	44		15.748	1.732	238	310	7.2	3 200	2 800	21.5	**16052 MA**
	400	65		15.748	2.559	291	375	8.8	3 200	2 800	29.5	**6052 M**
	480	80		18.898	3.150	390	530	11.8	2 600	2 400	65.5	**6252 M**
280	350	33	**11.024**	13.780	1.299	138	200	4.75	3 400	2 200	7.4	**61856**
	380	46		14.961	1.811	216	285	6.7	3 200	2 800	15	**61956 MA**
	420	44		16.535	1.732	242	335	7.5	3 000	2 600	23	**16056 MA**
	420	65		16.535	2.559	302	405	9.3	3 000	2 600	31	**6056 M**
	500	80		19.685	3.150	423	600	12.9	2 600	2 200	71	**6256 M**
300	380	38	**11.811**	14.961	1.496	172	245	5.6	3 200	2 600	10.5	**61860 MA**
	420	56		16.535	2.205	270	375	8.3	3 000	2 400	24.5	**61960 MA**
	460	50		18.110	1.969	286	405	8.8	2 800	2 400	32	**16060 MA**
	460	74		18.110	2.913	358	500	10.8	2 800	2 400	44	**6060 M**
	540	85		21.260	3.346	462	670	13.7	2 400	2 000	88.5	**6260 M**
320	400	38	**12.598**	15.748	1.496	172	255	5.7	3 000	2 400	11	**61864 MA**
	440	56		17.323	2.205	276	400	8.65	2 800	2 400	25.5	**61964 MA**
	480	50		18.898	1.969	281	405	8.65	2 600	2 200	34	**16064 MA**
	480	74		18.898	2.913	371	540	11.4	2 600	2 200	46	**6064 M**

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Single row deep groove ball bearings

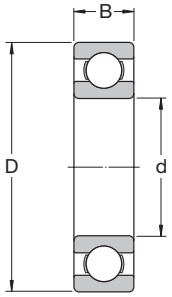
d **340 - 600** mm
d **13.386 - 23.622** in

Principal dimensions						Basic load ratings		Fatigue load limit	Speed ratings		Mass	Designation
						dynamic	static		Reference speed	Limiting speed		
d	D	B	d	D	B	C	C_0	P_u				
mm			in			kN		kN	r/min		kg	–
340	420	38	**13.386**	16.535	1.496	178	275	6	2 800	2 400	11.5	**61868 MA**
	460	56		18.110	2.205	281	425	9	2 600	2 200	26.5	**61968 MA**
	520	57		20.472	2.244	345	520	10.6	2 400	2 000	45	**16068 MA**
	520	82		20.472	3.228	423	640	13.2	2 400	2 000	62	**6068 M**
360	440	38	**14.173**	17.323	1.496	182	285	6.1	2 600	2 200	12	**61872 MA**
	480	56		18.898	2.205	291	450	9.15	2 600	2 000	28	**61972 MA**
	540	57		21.260	2.244	351	550	11	2 400	1 900	49	**16072 MA**
	540	82		21.260	3.228	462	735	15	2 400	1 900	64.5	**6072 M**
380	480	46	**14.961**	18.898	1.811	242	390	8	2 400	2 000	20	**61876 MA**
	520	65		20.472	2.559	338	540	10.8	2 400	1 900	40	**61976 MA**
	560	57		22.047	2.244	377	620	12.2	2 200	1 800	51	**16076 MA**
	560	82		22.047	3.228	462	750	14.6	2 200	1 800	67.5	**6076 M**
400	500	46	**15.748**	19.685	1.811	247	405	8.15	2 400	1 900	20.5	**61880 MA**
	540	65		21.260	2.559	345	570	11.2	2 200	1 800	41.5	**61980 MA**
	600	90		23.622	3.543	520	865	16.3	2 000	1 700	87.5	**6080 M**
420	520	46	**16.535**	20.472	1.811	251	425	8.3	2 200	1 800	21.5	**61884 MA**
	560	65		22.047	2.559	351	600	11.4	2 200	1 800	43	**61984 MA**
	620	90		24.409	3.543	507	880	16.3	2 000	1 600	91.5	**6084 M**
440	540	46	**17.323**	21.260	1.811	255	440	8.5	2 200	1 800	22.5	**61888 MA**
	600	74		23.622	2.913	410	720	13.2	2 000	1 600	60.5	**61988 MA**
	650	94		25.591	3.701	553	965	17.6	1 900	1 500	105	**6088 M**
460	580	56	**18.110**	22.835	2.205	319	570	10.6	2 000	1 600	35	**61892 MA**
	620	72		24.409	2.835	423	750	13.7	1 900	1 600	62.5	**61992 MA**
	680	100		26.772	3.937	582	1 060	19	1 800	1 500	120	**6092 MB**
480	600	56	**18.898**	23.622	2.205	325	600	10.8	1 900	1 600	36.5	**61896 MA**
	650	78		25.591	3.071	449	815	14.6	1 800	1 500	74	**61996 MA**
	700	100		27.559	3.937	618	1 140	20	1 700	1 400	125	**6096 MB**
500	620	56	**19.685**	24.409	2.205	332	620	11.2	1 800	1 500	40.5	**618/500 MA**
	670	78		26.378	3.071	462	865	15	1 700	1 400	77	**619/500 MA**
	720	100		28.346	3.937	605	1 140	19.6	1 600	1 300	135	**60/500 N1MAS**
530	650	56	**20.866**	25.591	2.205	332	655	11.2	1 700	1 400	39.5	**618/530 MA**
	710	82		27.953	3.228	488	930	15.6	1 600	1 300	90.5	**619/530 MA**
	780	112		30.709	4.409	650	1 270	20.8	1 500	1 200	185	**60/530 N1MAS**
560	680	56	**22.047**	26.772	2.205	345	695	11.8	1 600	1 300	42	**618/560 MA**
	750	85		29.528	3.346	494	980	16.3	1 500	1 200	105	**619/560 MA**
	820	115		32.283	4.528	663	1 470	22	1 400	1 200	210	**60/560 N1MAS**
600	730	60	**23.622**	28.740	2.362	364	765	12.5	1 500	1 200	52	**618/600 MA**
	800	90		31.496	3.543	585	1 220	19.6	1 400	1 100	125	**619/600 MA**

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Single row deep groove ball bearings

d **630 - 1500** mm
d **24.803 - 59.055** in

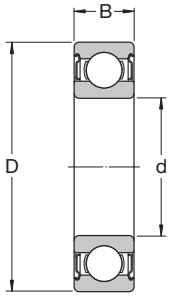


Principal dimensions						Basic load ratings		Fatigue load limit	Speed ratings		Mass	Designation
						dynamic	static		Reference speed	Limiting speed		
d	D	B	d	D	B	C	C_0	P_u				
mm			in			kN		kN	r/min		kg	–
630	780	69	**24.803**	30.709	2.717	442	965	15.3	1 400	1 100	73	**618/630 MA**
	850	100		33.465	3.937	624	1 340	21.2	1 300	1 100	160	**619/630 N1MA**
	920	128		36.220	5.039	819	1 760	27	1 200	1 000	285	**60/630 N1MBS**
670	820	69	**26.378**	32.283	2.717	442	1 000	15.6	1 300	1 100	83.5	**618/670 MA**
	900	103		35.433	4.055	676	1 500	22.4	1 200	1 000	185	**619/670 MA**
	980	136		38.583	5.354	904	2 040	30	1 100	900	345	**60/670 N1MAS**
710	870	74	**27.953**	34.252	2.913	475	1 100	16.6	1 200	1 000	93.5	**618/710 MA**
	950	106		37.402	4.173	663	1 500	22	1 100	900	220	**619/710 MA**
	1 030	140		40.551	5.512	956	2 200	31.5	1 000	850	375	**60/710 MA**
750	920	78	**29.528**	36.220	3.071	527	1 250	18.3	1 100	900	110	**618/750 MA**
	1 000	112		39.370	4.409	761	1 800	25.5	1 000	850	255	**619/750 MA**
800	980	82	**31.496**	38.583	3.228	559	1 370	19.3	1 000	850	130	**618/800 MA**
	1 060	115		41.732	4.528	832	2 040	28.5	950	800	275	**619/800 MA**
	1 150	155		45.276	6.102	1 010	2 550	34.5	900	750	535	**60/800 N1MAS**
850	1 030	82	**33.465**	40.551	3.228	559	1 430	19.6	950	750	140	**618/850 MA**
900	1 090	85	**35.433**	42.913	3.346	618	1 600	21.6	850	700	160	**618/900 MA**
1 000	1 220	100	**39.370**	48.031	3.937	637	1 800	22.8	750	600	245	**618/1000 MA**
1 060	1 280	100	**41.732**	50.394	3.937	728	2 120	26.5	670	560	260	**618/1060 MA**
1 120	1 360	106	**44.094**	53.543	4.173	741	2 200	26.5	630	530	315	**618/1120 MA**
1 180	1 420	106	**46.457**	55.905	4.173	761	2 360	27.5	560	480	330	**618/1180 MB**
1 500	1 820	140	**59.055**	71.653	5.512	1 210	4 400	46.5	380	240	690	**618/1500 TN**

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Sealed single row deep groove ball bearings

d **3 - 7** mm
d **0.118 - 0.276** in

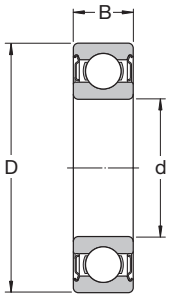


Principal dimensions						Basic load ratings dynamic	static	Fatigue load limit	Speed ratings Reference speed	Limiting speed	Mass	Designations sealed both sides	sealed one side
d	D	B	d	D	B	C	C_0	P_u					
mm			in			kN		kN	r/min		kg	–	
3	10	4	**0.118**	0.394	0.157	0.54	0.18	0.007	130 000	60 000	0.0015	**623-2Z**	**623-Z**
	10	4		0.394	0.157	0.54	0.18	0.007	–	40 000	0.0015	**623-2RS1**	**623-RS1**
4	9	3.5	**0.157**	0.354	0.138	0.54	0.18	0.007	140 000	70 000	0.001	**628/4-2Z**	–
	9	4		0.354	0.157	0.54	0.18	0.007	140 000	70 000	0.0013	**638/4-2Z**	–
	11	4		0.433	0.157	0.72	0.23	0.01	130 000	63 000	0.0017	**619/4-2Z**	–
	12	4		0.472	0.157	0.81	0.28	0.012	120 000	60 000	0.0021	**604-2Z**	**604-Z**
	13	5		0.512	0.197	0.94	0.29	0.012	110 000	53 000	0.0031	**624-2Z**	**624-Z**
	16	5		0.630	0.197	1.11	0.38	0.016	95 000	48 000	0.0054	**634-2Z**	**634-Z**
	16	5		0.630	0.197	1.11	0.38	0.016	95 000	48 000	0.0054	**634-2RZ**	**634-RZ**
	16	5		0.630	0.197	1.11	0.38	0.016	–	28 000	0.0054	**634-2RS1**	**634-RS1**
5	11	4	**0.197**	0.433	0.157	0.64	0.26	0.011	120 000	60 000	0.0014	**628/5-2Z**	–
	11	5		0.433	0.197	0.64	0.26	0.011	120 000	60 000	0.0016	**638/5-2Z**	–
	13	4		0.512	0.157	0.88	0.34	0.014	110 000	53 000	0.0025	**619/5-2Z**	–
	16	5		0.630	0.197	1.14	0.38	0.016	95 000	48 000	0.005	***625-2Z**	***625-Z**
	19	6		0.748	0.236	2.34	0.95	0.04	80 000	40 000	0.009	***635-2Z**	***635-Z**
	19	6		0.748	0.236	2.34	0.95	0.04	80 000	40 000	0.009	***635-2RZ**	***635-RZ**
	19	6		0.748	0.236	2.34	0.95	0.04	–	24 000	0.009	***635-2RS1**	***635-RS1**
6	13	5	**0.236**	0.512	0.197	0.88	0.35	0.015	110 000	53 000	0.0026	**628/6-2Z**	–
	15	5		0.591	0.197	1.24	0.48	0.02	100 000	50 000	0.0039	**619/6-2Z**	–
	19	6		0.748	0.236	2.34	0.95	0.04	80 000	40 000	0.0084	***626-2Z**	***626-Z**
	19	6		0.748	0.236	2.34	0.95	0.04	80 000	40 000	0.0084	***626-2RSL**	***626-RSL**
	19	6		0.748	0.236	2.34	0.95	0.04	–	24 000	0.0084	***626-2RSH**	***626-RSH**
7	14	5	**0.276**	0.551	0.197	0.956	0.4	0.017	100 000	50 000	0.0031	**628/7-2Z**	–
	17	5		0.669	0.197	1.48	0.56	0.024	90 000	45 000	0.0049	**619/7-2Z**	–
	19	6		0.748	0.236	2.34	0.95	0.04	85 000	43 000	0.0075	***607-2Z**	***607-Z**
	19	6		0.748	0.236	2.34	0.95	0.04	85 000	43 000	0.0075	***607-2RSL**	***607-RSL**
	19	6		0.748	0.236	2.34	0.95	0.04	–	24 000	0.0075	***607-2RSH**	***607-RSH**
	22	7		0.866	0.276	3.45	1.37	0.057	70 000	36 000	0.013	***627-2Z**	***627-Z**
	22	7		0.866	0.276	3.45	1.37	0.057	70 000	36 000	0.012	***627-2RSL**	***627-RSL**
	22	7		0.866	0.276	3.45	1.37	0.057	–	22 000	0.012	***627-2RSH**	***627-RSH**

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Sealed single row deep groove ball bearings

d **8 - 10** mm
d **0.315 - 0.394** in



Principal dimensions						Basic load ratings		Fatigue load limit	Speed ratings		Mass	Designations	
						dynamic	static		Reference speed	Limiting speed		sealed both sides	sealed one side
d	D	B	d	D	B	C	C_0	P_u					
mm			in			kN		kN	r/min		kg	–	
8	16	5	**0.315**	0.630	0.197	1.33	0.57	0.024	90 000	45 000	0.0036	**628/8-2Z**	**–**
	16	5		0.630	0.197	1.33	0.57	0.024	–	26 000	0.0036	**628/8-2RS1**	**–**
	16	6		0.630	0.236	1.33	0.57	0.024	90 000	45 000	0.0043	**638/8-2Z**	**–**
	19	6		0.748	0.236	1.9	0.74	0.031	80 000	40 000	0.0071	**619/8-2Z**	**–**
	19	6		0.748	0.236	1.9	0.74	0.031	–	24 000	0.0071	**619/8-2RS1**	**–**
	19	6		0.748	0.236	2.21	0.95	0.04	85 000	43 000	0.0072	**607/8-2Z**	**607/8-Z**
	22	7		0.866	0.276	3.45	1.37	0.057	75 000	38 000	0.012	***608-2Z**	***608-Z**
	22	7		0.866	0.276	3.45	1.37	0.057	75 000	38 000	0.012	***608-2RSL**	***608-RSL**
	22	7		0.866	0.276	3.45	1.37	0.057	–	22 000	0.012	***608-2RSH**	***608-RSH**
	22	11		0.866	0.433	3.45	1.37	0.057	–	22 000	0.016	**630/8-2RS1**	**–**
	24	8		0.945	0.315	3.9	1.66	0.071	63 000	32 000	0.017	***628-2Z**	***628-Z**
	24	8		0.945	0.315	3.9	1.66	0.071	63 000	32 000	0.017	***628-2RZ**	***628-RZ**
	24	8		0.945	0.315	3.9	1.66	0.071	–	19 000	0.017	***628-2RS1**	***628-RS1**
	28	9		1.102	0.354	4.62	1.96	0.083	60 000	30 000	0.03	**638-2RZ**	**638-RZ**
9	17	5	**0.354**	0.669	0.197	1.43	0.64	0.027	85 000	43 000	0.0043	**628/9-2Z**	**628/9-Z**
	17	5		0.669	0.197	1.43	0.64	0.027	–	24 000	0.0043	**628/9-2RS1**	**–**
	20	6		0.787	0.236	2.08	0.87	0.036	80 000	38 000	0.0076	**619/9-2Z**	**–**
	24	7		0.945	0.276	3.9	1.66	0.071	70 000	34 000	0.014	***609-2Z**	***609-Z**
	24	7		0.945	0.276	3.9	1.66	0.071	70 000	34 000	0.014	***609-2RSL**	***609-RSL**
	24	7		0.945	0.276	3.9	1.66	0.071	–	19 000	0.014	***609-2RSH**	***609-RSH**
	26	8		1.024	0.315	4.75	1.96	0.083	60 000	30 000	0.02	***629-2Z**	***629-Z**
	26	8		1.024	0.315	4.75	1.96	0.083	60 000	30 000	0.02	***629-2RSL**	***629-RSL**
	26	8		1.024	0.315	4.75	1.96	0.083	–	19 000	0.02	***629-2RSH**	***629-RSH**
10	19	5	**0.394**	0.748	0.197	1.38	0.59	0.025	80 000	38 000	0.0055	**61800-2Z**	**–**
	19	5		0.748	0.197	1.38	0.59	0.025	–	22 000	0.0055	**61800-2RS1**	**–**
	22	6		0.866	0.236	2.08	0.85	0.036	75 000	36 000	0.01	**61900-2Z**	**–**
	22	6		0.866	0.236	2.08	0.85	0.036	–	20 000	0.01	**61900-2RS1**	**–**
	26	8		1.024	0.315	4.75	1.96	0.083	67 000	34 000	0.019	***6000-2Z**	***6000-Z**
	26	8		1.024	0.315	4.75	1.96	0.083	67 000	34 000	0.019	***6000-2RSL**	***6000-RSL**
	26	8		1.024	0.315	4.75	1.96	0.083	–	19 000	0.019	***6000-2RSH**	***6000-RSH**
	26	12		1.024	0.472	4.62	1.96	0.083	–	19 000	0.025	**63000-2RS1**	**–**
	28	8		1.102	0.315	4.62	1.96	0.083	63 000	32 000	0.022	**16100-2Z**	**–**
	30	9		1.181	0.354	5.4	2.36	0.1	56 000	28 000	0.032	***6200-2Z**	***6200-Z**
	30	9		1.181	0.354	5.4	2.36	0.1	56 000	28 000	0.032	***6200-2RSL**	***6200-RSL**
	30	9		1.181	0.354	5.4	2.36	0.1	–	17 000	0.032	***6200-2RSH**	***6200-RSH**
	30	14		1.181	0.551	5.07	2.36	0.1	–	17 000	0.04	**62200-2RS1**	**–**
	35	11		1.378	0.433	8.52	3.4	0.143	50 000	26 000	0.053	***6300-2Z**	***6300-Z**
	35	11		1.378	0.433	8.52	3.4	0.143	50 000	26 000	0.053	***6300-2RSL**	***6300-RSL**
	35	11		1.378	0.433	8.52	3.4	0.143	–	15 000	0.053	***6300-2RSH**	***6300-RSH**
	35	17		1.378	0.669	8.06	3.4	0.143	–	15 000	0.06	**62300-2RS1**	**–**

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Sealed single row deep groove ball bearings

d **12 - 15** mm
d **0.472 - 0.591** in

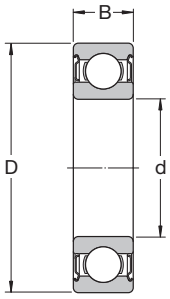
Principal dimensions						Basic load ratings		Fatigue load limit	Speed ratings		Mass	Designations	
						dynamic	static		Reference speed	Limiting speed		sealed both sides	sealed one side
d	D	B	d	D	B	C	C_0	P_u					
mm			in			kN		kN	r/min		kg	–	
12	21	5	**0.472**	0.827	0.197	1.43	0.67	0.028	70 000	36 000	0.0063	**61801-2Z**	–
	21	5		0.827	0.197	1.43	0.67	0.028	–	20 000	0.0063	**61801-2RS1**	–
	24	6		0.945	0.236	2.25	0.98	0.043	67 000	32 000	0.011	**61901-2Z**	–
	24	6		0.945	0.236	2.25	0.98	0.043	–	19 000	0.011	**61901-2RS1**	–
	28	8		1.102	0.315	5.4	2.36	0.1	60 000	30 000	0.022	***6001-2Z**	***6001-Z**
	28	8		1.102	0.315	5.4	2.36	0.1	60 000	30 000	0.022	***6001-2RSL**	***6001-RSL**
	28	8		1.102	0.315	5.4	2.36	0.1	–	17 000	0.022	***6001-2RSH**	***6001-RSH**
	28	12		1.102	0.472	5.07	2.36	0.1	–	17 000	0.029	**63001-2RS1**	–
	30	8		1.181	0.315	5.07	2.36	0.1	56 000	28 000	0.023	**16101-2Z**	–
	30	8		1.181	0.315	5.07	2.36	0.1	–	16 000	0.023	**16101-2RS1**	–
	32	10		1.260	0.394	7.28	3.1	0.132	50 000	26 000	0.037	***6201-2Z**	***6201-Z**
	32	10		1.260	0.394	7.28	3.1	0.132	50 000	26 000	0.037	***6201-2RSL**	***6201-RSL**
	32	10		1.260	0.394	7.28	3.1	0.132	–	15 000	0.037	***6201-2RSH**	***6201-RSH**
	32	14		1.260	0.551	6.89	3.1	0.132	–	15 000	0.045	**62201-2RS1**	–
	37	12		1.457	0.472	10.1	4.15	0.176	45 000	22 000	0.06	***6301-2Z**	***6301-Z**
	37	12		1.457	0.472	10.1	4.15	0.176	45 000	22 000	0.06	***6301-2RSL**	***6301-RSL**
	37	12		1.457	0.472	10.1	4.15	0.176	–	14 000	0.06	***6301-2RSH**	***6301-RSH**
	37	17		1.457	0.669	9.75	4.15	0.176	–	14 000	0.07	**62301-2RS1**	–
15	24	5	**0.591**	0.945	0.197	1.56	0.8	0.034	60 000	30 000	0.0074	**61802-2Z**	–
	24	5		0.945	0.197	1.56	0.8	0.034	–	17 000	0.0074	**61802-2RS1**	–
	28	7		1.102	0.276	4.36	2.24	0.095	56 000	28 000	0.016	**61902-2Z**	–
	28	7		1.102	0.276	4.36	2.24	0.095	56 000	28 000	0.016	**61902-2RZ**	–
	28	7		1.102	0.276	4.36	2.24	0.095	–	16 000	0.016	**61902-2RS1**	–
	32	8		1.260	0.315	5.85	2.85	0.12	50 000	26 000	0.025	***16002-2Z**	***16002-Z**
	32	9		1.260	0.354	5.85	2.85	0.12	50 000	26 000	0.03	***6002-2Z**	***6002-Z**
	32	9		1.260	0.354	5.85	2.85	0.12	50 000	26 000	0.03	***6002-2RSL**	***6002-RSL**
	32	9		1.260	0.354	5.85	2.85	0.12	–	14 000	0.03	***6002-2RSH**	***6002-RSH**
	32	13		1.260	0.512	5.59	2.85	0.12	–	14 000	0.039	**63002-2RS1**	–
	35	11		1.378	0.433	8.06	3.75	0.16	43 000	22 000	0.045	***6202-2Z**	***6202-Z**
	35	11		1.378	0.433	8.06	3.75	0.16	43 000	22 000	0.045	***6202-2RSL**	***6202-RSL**
	35	11		1.378	0.433	8.06	3.75	0.16	–	13 000	0.045	***6202-2RSH**	***6202-RSH**
	35	14		1.378	0.551	7.8	3.75	0.16	–	13 000	0.054	**62202-2RS1**	–
	42	13		1.654	0.512	11.9	5.4	0.228	38 000	19 000	0.082	***6302-2Z**	***6302-Z**
	42	13		1.654	0.512	11.9	5.4	0.228	38 000	19 000	0.082	***6302-2RSL**	***6302-RSL**
	42	13		1.654	0.512	11.9	5.4	0.228	–	12 000	0.082	***6302-2RSH**	***6302–RSH**
	42	17		1.654	0.669	11.4	5.4	0.228	–	12 000	0.11	**62302-2RS1**	–

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Sealed single row deep groove ball bearings

d **17 - 22** mm

d **0.669 - 0.866** in



Principal dimensions						Basic load ratings		Fatigue load limit	Speed ratings		Mass	Designations	
						dynamic	static		Reference speed	Limiting speed		sealed both sides	sealed one side
d	D	B	d	D	B	C	C_0	P_u					
mm			in			kN		kN	r/min		kg	–	
17	26	5	**0.669**	1.024	0.197	1.68	0.93	0.039	56 000	28 000	0.0082	**61803-2Z**	**–**
	26	5		1.024	0.197	1.68	0.93	0.039	56 000	28 000	0.0082	**61803-2RZ**	**–**
	26	5		1.024	0.197	1.68	0.93	0.039	–	16 000	0.0082	**61803-2RS1**	**–**
	30	7		1.181	0.276	4.62	2.55	0.108	50 000	26 000	0.018	**61903-2Z**	**–**
	30	7		1.181	0.276	4.62	2.55	0.108	50 000	26 000	0.018	**61903-2RZ**	**–**
	30	7		1.181	0.276	4.62	2.55	0.108	–	14 000	0.018	**61903-2RS1**	**–**
	35	8		1.378	0.315	6.37	3.25	0.137	45 000	22 000	0.032	***16003-2Z**	**–**
	35	10		1.378	0.394	6.37	3.25	0.137	45 000	22 000	0.039	***6003-2Z**	***6003-Z**
	35	10		1.378	0.394	6.37	3.25	0.137	45 000	22 000	0.039	***6003-2RSL**	***6003-RSL**
	35	10		1.378	0.394	6.37	3.25	0.137	–	13 000	0.039	***6003-2RSH**	***6003-RSH**
	35	14		1.378	0.551	6.05	3.25	0.137	–	13 000	0.052	**63003-2RS1**	**–**
	40	12		1.575	0.472	9.95	4.75	0.2	38 000	19 000	0.065	***6203-2Z**	***6203-Z**
	40	12		1.575	0.472	9.95	4.75	0.2	38 000	19 000	0.065	***6203-2RSL**	***6203-RSL**
	40	12		1.575	0.472	9.95	4.75	0.2	–	12 000	0.065	***6203-2RSH**	***6203-RSH**
	40	16		1.575	0.630	9.56	4.75	0.2	–	12 000	0.083	**62203-2RS1**	**–**
	47	14		1.850	0.551	14.3	6.55	0.275	34 000	17 000	0.12	***6303-2Z**	***6303-Z**
	47	14		1.850	0.551	14.3	6.55	0.275	34 000	17 000	0.12	***6303-2RSL**	***6303-RSL**
	47	14		1.850	0.551	14.3	6.55	0.275	–	11 000	0.12	***6303-2RSH**	***6303-RSH**
	47	19		1.850	0.748	13.5	6.55	0.275	–	11 000	0.15	**62303-2RS1**	**–**
20	32	7	**0.787**	1.260	0.276	4.03	2.32	0.104	45 000	22 000	0.018	**61804-2RZ**	**–**
	32	7		1.260	0.276	4.03	2.32	0.104	–	13 000	0.018	**61804-2RS1**	**–**
	37	9		1.457	0.354	6.37	3.65	0.156	43 000	20 000	0.038	**61904-2RZ**	**–**
	37	9		1.457	0.354	6.37	3.65	0.156	–	12 000	0.038	**61904-2RS1**	**–**
	42	12		1.654	0.472	9.95	5	0.212	38 000	19 000	0.069	***6004-2Z**	***6004-Z**
	42	12		1.654	0.472	9.95	5	0.212	38 000	19 000	0.069	***6004-2RSL**	***6004-RSL**
	42	12		1.654	0.472	9.95	5	0.212	–	11 000	0.069	***6004-2RSH**	***6004-RSH**
	42	16		1.654	0.630	9.36	5	0.212	–	11 000	0.086	**63004-2RS1**	**–**
	47	14		1.850	0.551	13.5	6.55	0.28	32 000	17 000	0.11	***6204-2Z**	***6204-Z**
	47	14		1.850	0.551	13.5	6.55	0.28	32 000	17 000	0.11	***6204-2RSL**	***6204-RSL**
	47	14		1.850	0.551	13.5	6.55	0.28	–	10 000	0.11	***6204-2RSH**	***6204-RSH**
	47	18		1.850	0.709	12.7	6.55	0.28	–	10 000	0.13	**62204-2RS1**	**–**
	52	15		2.047	0.591	16.8	7.8	0.335	30 000	15 000	0.14	***6304-2Z**	***6304-Z**
	52	15		2.047	0.591	16.8	7.8	0.335	30 000	15 000	0.14	***6304-2RSL**	***6304-RSL**
	52	15		2.047	0.591	16.8	7.8	0.335	–	9 500	0.14	***6304-2RSH**	***6304-RSH**
	52	21		2.047	0.827	15.9	7.8	0.335	–	9 500	0.2	**62304-2RS1**	**–**
22	50	14	**0.866**	1.969	0.551	14	7.65	0.325	–	9 000	0.12	**62/22-2RS1**	**–**

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Sealed single row deep groove ball bearings

d **25 - 30** mm
d **0.984 - 1.181** in

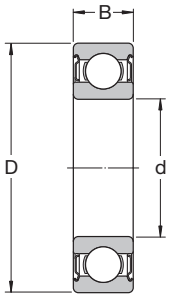
Principal dimensions						Basic load ratings		Fatigue load limit	Speed ratings		Mass	Designations	
						dynamic	static		Reference speed	Limiting speed		sealed both sides	sealed one side
d	D	B	d	D	B	C	C_0	P_u					
mm			in			kN		kN	r/min		kg	–	
25	37	7	**0.984**	1.457	0.276	4.36	2.6	0.125	38 000	19 000	0.022	**61805-2RZ**	–
	37	7		1.457	0.276	4.36	2.6	0.125	–	11 000	0.022	**61805-2RS1**	–
	42	9		1.654	0.354	7.02	4.3	0.193	36 000	18 000	0.045	**61905-2RZ**	–
	42	9		1.654	0.354	7.02	4.3	0.193	–	10 000	0.045	**61905-2RS1**	–
	47	12		1.850	0.472	11.9	6.55	0.275	32 000	16 000	0.08	***6005-2Z**	***6005-Z**
	47	12		1.850	0.472	11.9	6.55	0.275	32 000	16 000	0.08	***6005-2RSL**	***6005-RSL**
	47	12		1.850	0.472	11.9	6.55	0.275	–	9 500	0.08	***6005-2RSH**	***6005-RSH**
	47	16		1.850	0.630	11.2	6.55	0.275	–	9 500	0.1	**63005-2RS1**	–
	52	15		2.047	0.591	14.8	7.8	0.335	28 000	14 000	0.13	***6205-2Z**	***6205-Z**
	52	15		2.047	0.591	14.8	7.8	0.335	28 000	14 000	0.13	***6205-2RSL**	***6205-RSL**
	52	15		2.047	0.591	14.8	7.8	0.335	–	8 500	0.13	***6205-2RSH**	***6205-RSH**
	52	18		2.047	0.709	14	7.8	0.335	–	8 500	0.15	**62205-2RS1**	–
	62	17		2.441	0.669	23.4	11.6	0.49	24 000	13 000	0.23	***6305-2Z**	***6305-Z**
	62	17		2.441	0.669	23.4	11.6	0.49	24 000	13 000	0.23	***6305-2RZ**	***6305-RZ**
	62	17		2.441	0.669	23.4	11.6	0.49	–	7 500	0.23	***6305-2RS1**	***6305-RS1**
	62	24		2.441	0.945	22.5	11.6	0.49	–	7 500	0.32	**62305-2RS1**	–
30	42	7	**1.181**	1.654	0.276	4.49	2.9	0.146	32 000	16 000	0.027	**61806-2RZ**	–
	42	7		1.654	0.276	4.49	2.9	0.146	–	9 500	0.027	**61806-2RS1**	–
	47	9		1.850	0.354	7.28	4.55	0.212	30 000	15 000	0.051	**61906-2RZ**	–
	47	9		1.850	0.354	7.28	4.55	0.212	–	8 500	0.051	**61906-2RS1**	–
	55	13		2.165	0.512	13.8	8.3	0.355	28 000	14 000	0.12	***6006-2Z**	***6006-Z**
	55	13		2.165	0.512	13.8	8.3	0.355	28 000	14 000	0.12	***6006-2RZ**	***6006-RZ**
	55	13		2.165	0.512	13.8	8.3	0.355	–	8 000	0.12	***6006-2RS1**	***6006-RS1**
	55	19		2.165	0.748	13.3	8.3	0.355	–	8 000	0.16	**63006-2RS1**	–
	62	16		2.441	0.630	20.3	11.2	0.475	24 000	12 000	0.2	***6206-2Z**	***6206-Z**
	62	16		2.441	0.630	20.3	11.2	0.475	24 000	12 000	0.2	***6206-2RZ**	***6206-RZ**
	62	16		2.441	0.630	20.3	11.2	0.475	–	7 500	0.2	***6206-2RS1**	***6206-RS1**
	62	20		2.441	0.787	19.5	11.2	0.475	–	7 500	0.24	**62206-2RS1**	–
	72	19		2.835	0.748	29.6	16	0.67	20 000	11 000	0.35	***6306-2Z**	***6306-Z**
	72	19		2.835	0.748	29.6	16	0.67	20 000	11 000	0.35	***6306-2RZ**	***6306-RZ**
	72	19		2.835	0.748	29.6	16	0.67	–	6 300	0.35	***6306-2RS1**	***6306-RS1**
	72	27		2.835	1.063	28.1	16	0.67	–	6 300	0.48	**62306-2RS1**	–

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Sealed single row deep groove ball bearings

d **35 - 40** mm

d **1.378 - 1.575** in



Principal dimensions						Basic load ratings		Fatigue load limit	Speed ratings		Mass	Designations	
						dynamic	static		Reference speed	Limiting speed		sealed both sides	sealed one side
d	D	B	d	D	B	C	C_0	P_u					
mm			in			kN		kN	r/min		kg	–	
35	47	7	**1.378**	1.850	0.276	4.75	3.2	0.166	28 000	14 000	0.03	**61807-2RZ**	**–**
	47	7		1.850	0.276	4.75	3.2	0.166	–	8 000	0.03	**61807-2RS1**	**–**
	55	10		2.165	0.394	9.56	6.8	0.29	26 000	13 000	0.08	**61907-2RZ**	**–**
	55	10		2.165	0.394	9.56	6.8	0.29	–	7 500	0.08	**61907-2RS1**	**–**
	62	14		2.441	0.551	16.8	10.2	0.44	24 000	12 000	0.16	***6007-2Z**	***6007-Z**
	62	14		2.441	0.551	16.8	10.2	0.44	24 000	12 000	0.16	***6007-2RZ**	***6007-RZ**
	62	14		2.441	0.551	16.8	10.2	0.44	–	7 000	0.16	***6007-2RS1**	***6007-RS1**
	62	20		2.441	0.787	15.9	10.2	0.44	–	7 000	0.21	**63007-2RS1**	**–**
	72	17		2.835	0.669	27	15.3	0.655	20 000	10 000	0.29	***6207-2Z**	***6207-Z**
	72	17		2.835	0.669	27	15.3	0.655	–	6 300	0.29	***6207-2RS1**	***6207-RS1**
	72	23		2.835	0.906	25.5	15.3	0.655	–	6 300	0.37	**62207-2RS1**	**–**
	80	21		3.150	0.827	35.1	19	0.815	19 000	9 500	0.46	***6307-2Z**	***6307-Z**
	80	21		3.150	0.827	35.1	19	0.815	–	6 000	0.46	***6307-2RS1**	***6307-RS1**
	80	31		3.150	1.220	33.2	19	0.815	–	6 000	0.66	**62307-2RS1**	**–**
40	52	7	**1.575**	2.047	0.276	4.94	3.45	0.186	26 000	13 000	0.034	**61808-2RZ**	**–**
	52	7		2.047	0.276	4.94	3.45	0.186	–	7 500	0.034	**61808-2RS1**	**–**
	62	12		2.441	0.472	13.8	10	0.425	24 000	12 000	0.12	**61908-2RZ**	**–**
	62	12		2.441	0.472	13.8	10	0.425	–	6 700	0.12	**61908-2RS1**	**–**
	68	15		2.677	0.591	17.8	11.6	0.49	22 000	11 000	0.19	***6008-2Z**	***6008-Z**
	68	15		2.677	0.591	17.8	11.6	0.49	22 000	11 000	0.19	***6008-2RZ**	***6008-RZ**
	68	15		2.677	0.591	17.8	11.6	0.49	–	6 300	0.19	***6008-2RS1**	***6008-RS1**
	68	21		2.677	0.827	16.8	11.6	0.49	–	6 300	0.26	**63008-2RS1**	**–**
	80	18		3.150	0.709	32.5	19	0.8	18 000	9 000	0.37	***6208-2Z**	***6208-Z**
	80	18		3.150	0.709	32.5	19	0.8	18 000	9 000	0.37	***6208-2RZ**	***6208-RZ**
	80	18		3.150	0.709	32.5	19	0.8	–	5 600	0.37	***6208-2RS1**	***6208-RS1**
	80	23		3.150	0.906	30.7	19	0.8	–	5 600	0.44	**62208-2RS1**	**–**
	90	23		3.543	0.906	42.3	24	1.02	17 000	8 500	0.63	***6308-2Z**	***6308-Z**
	90	23		3.543	0.906	42.3	24	1.02	17 000	8 500	0.63	***6308-2RZ**	***6308-RZ**
	90	23		3.543	0.906	42.3	24	1.02	–	5 000	0.63	***6308-2RS1**	***6308-RS1**
	90	33		3.543	1.299	41	24	1.02	–	5 000	0.89	**62308-2RS1**	**–**

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Sealed single row deep groove ball bearings

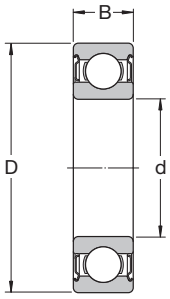
d **45 - 50** mm
d **1.772 - 1.969** in

Principal dimensions						Basic load ratings		Fatigue load limit	Speed ratings		Mass	Designations	
						dynamic	static		Reference speed	Limiting speed		sealed both sides	sealed one side
d	D	B	d	D	B	C	C_0	P_u					
mm			in			kN		kN	r/min		kg	–	
45	58	7	**1.772**	2.283	0.276	6.63	6.1	0.26	22 000	11 000	0.04	**61809-2RZ**	–
	58	7		2.283	0.276	6.63	6.1	0.26	–	6 700	0.04	**61809-2RS1**	–
	68	12		2.677	0.472	14	10.8	0.465	20 00	10 000	0.14	**61909-2RZ**	–
	68	12		2.677	0.472	14	10.8	0.465	–	6 000	0.14	**61909-2RS1**	–
	75	16		2.953	0.630	22.1	14.6	0.64	20 000	10 000	0.25	***6009-2Z**	***6009-Z**
	75	16		2.953	0.630	22.1	14.6	0.64	–	5 600	0.25	***6009-2RS1**	***6009-RS1**
	75	23		2.953	0.906	20.8	14.6	0.64	–	5 600	0.34	**63009-2RS1**	–
	85	19		3.346	0.748	35.1	21.6	0.915	17 000	8 500	0.41	***6209-2Z**	***6209-Z**
	85	19		3.346	0.748	35.1	21.6	0.915	–	5 000	0.41	***6209-2RS1**	***6209-RS1**
	85	23		3.346	0.906	33.2	21.6	0.915	–	5 000	0.48	**62209-2RS1**	–
	100	25		3.937	0.984	55.3	31.5	1.34	15 000	7 500	0.83	***6309-2Z**	***6309-Z**
	100	25		3.937	0.984	55.3	31.5	1.34	–	4 500	0.83	***6309-2RS1**	***6309-RS1**
	100	36		3.937	1.417	52.7	31.5	1.34	–	4 500	1.15	**62309-2RS1**	–
50	65	7	**1.969**	2.559	0.276	6.76	6.8	0.285	20 000	10 000	0.052	**61810-2RZ**	–
	65	7		2.559	0.276	6.76	6.8	0.285	–	6 000	0.052	**61810-2RS1**	–
	72	12		2.835	0.472	14.6	11.8	0.5	19 000	9 500	0.14	**61910-2RZ**	–
	72	12		2.835	0.472	14.6	11.8	0.5	–	5 600	0.14	**61910-2RS1**	–
	80	16		3.150	0.630	22.9	16	0.71	18 000	9 000	0.26	***6010-2Z**	***6010-Z**
	80	16		3.150	0.630	22.9	16	0.71	18 000	9 000	0.26	***6010-2RZ**	***6010-RZ**
	80	16		3.150	0.630	22.9	16	0.71	–	5 000	0.26	***6010-2RS1**	***6010-RS1**
	80	23		3.150	0.906	21.6	16	0.71	–	5 000	0.37	**63010-2RS1**	–
	90	20		3.543	0.787	37.1	23.2	0.98	15 000	8 000	0.46	***6210-2Z**	***6210-Z**
	90	20		3.543	0.787	37.1	23.2	0.98	15 000	8 000	0.46	***6210-2RZ**	***6210-RZ**
	90	20		3.543	0.787	37.1	23.2	0.98	–	4 800	0.46	***6210-2RS1**	***6210-RS1**
	90	23		3.543	0.906	35.1	23.2	0.98	–	4 800	0.52	**62210-2RS1**	–
	110	27		4.331	1.063	65	38	1.6	13 000	6 700	1.05	***6310-2Z**	***6310-Z**
	110	27		4.331	1.063	65	38	1.6	–	4 300	1.05	***6310-2RS1**	***6310-RS1**
	110	40		4.331	1.575	61.8	38	1.6	–	4 300	1.55	**62310-2RS1**	–

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Sealed single row deep groove ball bearings

d **55 - 65** mm
d **2.165 - 2.559** in



Principal dimensions						Basic load ratings		Fatigue load limit	Speed ratings		Mass	Designations	
						dynamic	static		Reference speed	Limiting speed		sealed both sides	sealed one side
d	D	B	d	D	B	C	C_0	P_u					
mm			in			kN		kN	r/min		kg	–	
55	72	9	**2.165**	2.835	0.354	9.04	8.8	0.375	19 000	9 500	0.083	**61811-2RZ**	**–**
	72	9		2.835	0.354	9.04	8.8	0.375	–	5 300	0.083	**61811-2RS1**	**–**
	80	13		3.150	0.512	16.5	14	0.6	17 000	8 500	0.19	**61911-2RZ**	**–**
	80	13		3.150	0.512	16.5	14	0.6	–	5 000	0.19	**61911-2RS1**	**–**
	90	18		3.543	0.709	29.6	21.2	0.9	16 000	8 000	0.39	***6011-2Z**	***6011-Z**
	90	18		3.543	0.709	29.6	21.2	0.9	–	4 500	0.39	***6011-2RS1**	***6011-RS1**
	100	21		3.937	0.827	46.2	29	1.25	14 000	7 000	0.61	***6211-2Z**	***6211-Z**
	100	21		3.937	0.827	46.2	29	1.25	–	4 300	0.61	***6211-2RS1**	***6211-RS1**
	100	25		3.937	0.984	43.6	29	1.25	–	4 300	0.7	**62211-2RS1**	**–**
	120	29		4.724	1.142	74.1	45	1.9	12 000	6 300	1.35	***6311-2Z**	***6311-Z**
	120	29		4.724	1.142	74.1	45	1.9	–	3 800	1.35	***6311-2RS1**	***6311-RS1**
	120	43		4.724	1.693	71.5	45	1.9	–	3 800	1.95	**62311-2RS1**	**–**
60	78	10	**2.362**	3.071	0.394	11.9	11.4	0.49	17 000	8 500	0.11	**61812-2RZ**	**–**
	78	10		3.071	0.394	11.9	11.4	0.49	–	4 800	0.11	**61812-2RS1**	**–**
	85	13		3.346	0.512	16.5	14.3	0.6	16 000	8 000	0.2	**61912-2RZ**	**–**
	85	13		3.346	0.512	16.5	14.3	0.6	–	4 500	0.2	**61912-2RS1**	**–**
	95	18		3.740	0.709	30.7	23.2	0.98	15 000	7 500	0.42	***6012-2Z**	***6012-Z**
	95	18		3.740	0.709	30.7	23.2	0.98	15 000	7 500	0.42	***6012-2RZ**	***6012-RZ**
	95	18		3.740	0.709	30.7	23.2	0.98	–	4 300	0.42	***6012-2RS1**	***6012-RS1**
	110	22		4.331	0.866	55.3	36	1.53	13 000	6 300	0.78	***6212-2Z**	***6212-Z**
	110	22		4.331	0.866	55.3	36	1.53	–	4 000	0.78	***6212-2RS1**	***6212-RS1**
	110	28		4.331	1.102	52.7	36	1.53	–	4 000	0.97	**62212-2RS1**	**–**
	130	31		5.118	1.220	85.2	52	2.2	11 000	5 600	1.7	***6312-2Z**	***6312-Z**
	130	31		5.118	1.220	85.2	52	2.2	–	3 400	1.7	***6312-2RS1**	***6312-RS1**
	130	46		5.118	1.811	81.9	52	2.2	–	3 400	2.5	**62312-2RS1**	**–**
65	85	10	**2.559**	3.346	0.394	12.4	12.7	0.54	16 000	8 000	0.13	**61813-2RZ**	**–**
	85	10		3.346	0.394	12.4	12.7	0.54	–	4 500	0.13	**61813-2RS1**	**–**
	90	13		3.543	0.512	17.4	16	0.68	15 000	7 500	0.22	**61913-2RZ**	**–**
	90	13		3.543	0.512	17.4	16	0.68	–	4 300	0.22	**61913-2RS1**	**–**
	100	18		3.937	0.709	31.9	25	1.06	14 000	7 000	0.44	***6013-2Z**	***6013-Z**
	100	18		3.937	0.709	31.9	25	1.06	–	4 000	0.44	***6013-2RS1**	***6013-RS1**
	120	23		4.724	0.906	58.5	40.5	1.73	12 000	6 000	0.99	***6213-2Z**	***6213-Z**
	120	23		4.724	0.906	58.5	40.5	1.73	–	3 600	0.99	***6213-2RS1**	***6213-RS1**
	120	31		4.724	1.220	55.9	40.5	1.73	–	3 600	1.25	**62213-2RS1**	**–**
	140	33		5.512	1.299	97.5	60	2.5	10 000	5 300	2.1	***6313-2Z**	***6313-Z**
	140	33		5.512	1.299	97.5	60	2.5	–	3 200	2.1	***6313-2RS1**	***6313-RS1**
	140	48		5.512	1.890	92.3	60	2.5	–	3 200	3	**62313-2RS1**	**–**

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Sealed single row deep groove ball bearings

d **70 - 80** mm
d **2.756 - 3.150** in

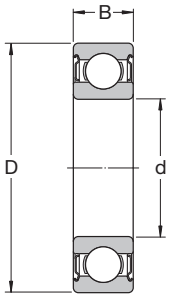
Principal dimensions						Basic load ratings		Fatigue load limit	Speed ratings		Mass	Designations	
						dynamic	static		Reference speed	Limiting speed		sealed both sides	sealed one side
d	D	B	d	D	B	C	C_0	P_u					
mm			in			kN		kN	r/min		kg	–	
70	90	10	**2.756**	3.543	0.394	12.4	13.2	0.56	15 000	7 500	0.14	**61814-2RZ**	–
	90	10		3.543	0.394	12.4	13.2	0.56	–	4 300	0.14	**61814-2RS1**	–
	100	16		3.937	0.630	23.8	21.2	0.9	14 000	7 000	0.35	**61914-2RZ**	–
	100	16		3.937	0.630	23.8	21.2	0.9	–	4 000	0.35	**61914-2RS1**	–
	110	20		4.331	0.787	39.7	31	1.32	13 000	6 300	0.6	***6014-2Z**	***6014-Z**
	110	20		4.331	0.787	39.7	31	1.32	–	3 600	0.6	***6014-2RS1**	***6014-RS1**
	125	24		4.921	0.945	63.7	45	1.9	11 000	5 600	1.1	***6214-2Z**	***6214-Z**
	125	24		4.921	0.945	63.7	45	1.9	–	3 400	1.1	***6214-2RS1**	***6214-RS1**
	125	31		4.921	1.220	60.5	45	1.9	–	3 400	1.3	**62214-2RS1**	–
	150	35		5.906	1.378	111	68	2.75	9 500	5 000	2.5	***6314-2Z**	***6314-Z**
	150	35		5.906	1.378	111	68	2.75	–	3 000	2.5	***6314-2RS1**	***6314-RS1**
	150	51		5.906	2.008	104	68	2.75	–	3 000	3.55	**62314-2RS1**	–
75	95	10	**2.953**	3.740	0.394	12.7	14.3	0.61	14 000	7 000	0.15	**61815-2RZ**	–
	95	10		3.740	0.394	12.7	14.3	0.61	–	4 000	0.15	**61815-2RS1**	–
	105	16		4.134	0.630	24.2	19.3	0.965	13 000	6 300	0.37	**61915-2RZ**	–
	105	16		4.134	0.630	24.2	19.3	0.965	–	3 600	0.37	**61915-2RS1**	–
	115	20		4.528	0.787	41.6	33.5	1.43	12 000	6 000	0.64	***6015-2Z**	***6015-Z**
	115	20		4.528	0.787	41.6	33.5	1.43	12 000	6 000	0.64	***6015-2RZ**	***6015-RZ**
	115	20		4.528	0.787	41.6	33.5	1.43	–	3 400	0.64	***6015-2RS1**	***6015-RS1**
	130	25		5.118	0.984	68.9	49	2.04	10 000	5 300	1.2	***6215-2Z**	***6215-Z**
	130	25		5.118	0.984	68.9	49	2.04	–	3 200	1.2	***6215-2RS1**	***6215-RS1**
	160	37		6.299	1.457	119	76.5	3	9 000	4 500	3	***6315-2Z**	***6315-Z**
	160	37		6.299	1.457	119	76.5	3	–	2 800	3	***6315-2RS1**	***6315-RS1**
80	100	10	**3.150**	3.937	0.394	13	15	0.64	13 000	6 300	0.15	**61816-2RZ**	–
	100	10		3.937	0.394	13	15	0.64	–	3 600	0.15	**61816-2RS1**	–
	110	16		4.331	0.630	25.1	20.4	1.02	12 000	6 000	0.4	**61916-2RZ**	–
	110	16		4.331	0.630	25.1	20.4	1.02	–	3 400	0.4	**61916-2RS1**	–
	125	22		4.921	0.866	49.4	40	1.66	11 000	5 600	0.85	***6016-2Z**	***6016-Z**
	125	22		4.921	0.866	49.4	40	1.66	–	3 200	0.85	***6016-2RS1**	***6016-RS1**
	140	26		5.512	1.024	72.8	55	2.2	9 500	4 800	1.4	***6216-2Z**	***6216-Z**
	140	26		5.512	1.024	72.8	55	2.2	–	3 000	1.4	***6216-2RS1**	***6216-RS1**
	170	39		6.693	1.535	130	86.5	3.25	8 500	4 300	3.6	***6316-2Z**	***6316-Z**
	170	39		6.693	1.535	130	86.5	3.25	–	2 600	3.6	***6316-2RS1**	***6316-RS1**

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Sealed single row deep groove ball bearings

d **85 - 100** mm

d **3.346 - 3.937** in



Principal dimensions						Basic load ratings dynamic	static	Fatigue load limit	Speed ratings Reference speed	Limiting speed	Mass	Designations sealed both sides	sealed one side
d	D	B	d	D	B	C	C_0	P_u					
mm			in			kN		kN	r/min		kg	–	
85	110	13	**3.346**	4.331	0.512	19.5	20.8	0.88	12 000	6 000	0.27	**61817-2RZ**	**–**
	110	13		4.331	0.512	19.5	20.8	0.88	–	3 400	0.27	**61817-2RS1**	**–**
	130	22		5.118	0.866	52	43	1.76	11 000	5 300	0.89	***6017-2Z**	***6017-Z**
	130	22		5.118	0.866	52	43	1.76	–	3 000	0.89	***6017-2RS1**	***6017-RS1**
	150	28		5.906	1.102	87.1	64	2.5	9 000	4 500	1.8	***6217-2Z**	***6217-Z**
	150	28		5.906	1.102	87.1	64	2.5	–	2 800	1.8	***6217-2RS1**	***6217-RS1**
	180	41		7.087	1.614	140	96.5	3.55	8 000	4 000	4.25	***6317-2Z**	***6317-Z**
	180	41		7.087	1.614	140	96.5	3.55	–	2 400	4.25	***6317-2RS1**	***6317-RS1**
90	115	13	**3.543**	4.528	0.512	19.5	22	0.915	11 000	5 600	0.28	**61818-2RZ**	**–**
	115	13		4.528	0.512	19.5	22	0.915	–	3 200	0.28	**61818-2RS1**	**–**
	140	24		5.512	0.945	60.5	50	1.96	10 000	5 000	1.15	***6018-2Z**	***6018-Z**
	140	24		5.512	0.945	60.5	50	1.96	–	2 800	1.15	***6018-2RS1**	***6018-RS1**
	160	30		6.299	1.181	101	73.5	2.8	8 500	4 300	2.15	***6218-2Z**	***6218-Z**
	160	30		6.299	1.181	101	73.5	2.8	–	2 600	2.15	***6218-2RS1**	***6218-RS1**
	190	43		7.480	1.693	151	108	3.8	7 500	3 800	4.9	***6318-2Z**	***6318-Z**
	190	43		7.480	1.693	151	108	3.8	–	2 400	4.9	***6318-2RS1**	***6318-RS1**
95	120	13	**3.740**	4.724	0.512	19.9	22.8	0.93	11 000	5 300	0.3	**61819-2RZ**	**–**
	120	13		4.724	0.512	19.9	22.8	0.93	–	3 000	0.3	**61819-2RS1**	**–**
	130	18		5.118	0.709	33.8	33.5	1.43	–	3 000	0.61	**61919-2RS1**	**–**
	145	24		5.709	0.945	63.7	54	2.08	9 500	4 800	1.2	***6019-2Z**	***6019-Z**
	145	24		5.709	0.945	63.7	54	2.08	–	2 800	1.2	***6019-2RS1**	***6019-RS1**
	170	32		6.693	1.260	114	81.5	3	8 000	4 000	2.6	***6219-2Z**	***6219-Z**
	170	32		6.693	1.260	114	81.5	3	–	2 400	2.6	***6219-2RS1**	***6219-RS1**
	200	45		7.874	1.772	159	118	4.15	7 000	3 600	5.65	***6319-2Z**	***6319-Z**
	200	45		7.874	1.772	159	118	4.15	–	2 200	5.65	***6319-2RS1**	***6319-RS1**
100	125	13	**3.937**	4.921	0.512	19.9	24	0.95	10 000	5 300	0.31	**61820-2RZ**	**–**
	125	13		4.921	0.512	19.9	24	0.95	–	3 000	0.31	**61820-2RS1**	**–**
	150	24		5.906	0.945	63.7	54	2.04	9 500	4 500	1.25	***6020-2Z**	***6020-Z**
	150	24		5.906	0.945	63.7	54	2.04	–	2 600	1.25	***6020-2RS1**	***6020-RS1**
	180	34		7.087	1.339	127	93	3.35	7 500	3 800	3.15	***6220-2Z**	***6220-Z**
	180	34		7.087	1.339	127	93	3.35	–	2 400	3.15	***6220-2RS1**	***6220-RS1**
	215	47		8.465	1.850	174	140	4.75	6 700	3 400	7	**6320-2Z**	**6320-Z**

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Sealed single row deep groove ball bearings

d **105 - 160** mm
d **4.134 - 6.299** in

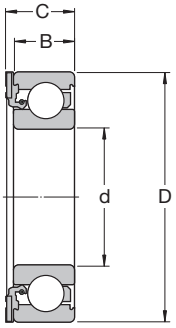
Principal dimensions						Basic load ratings		Fatigue load limit	Speed ratings		Mass	Designations	
						dynamic	static		Reference	Limiting		sealed	sealed
d	D	B	d	D	B	C	C_0	P_u	speed	speed		both sides	one side
mm			in			kN		kN	r/min		kg	–	
105	130	13	**4.134**	5.118	0.512	20.8	19.6	1	10 000	5 000	0.32	**61821-2RZ**	–
	130	13		5.118	0.512	20.8	19.6	1	–	2 800	0.32	**61821-2RS1**	–
	160	26		6.299	1.024	76.1	65.5	2.4	8 500	4 300	1.6	***6021-2Z**	***6021-Z**
	160	26		6.299	1.024	76.1	65.5	2.4	–	2 400	1.6	***6021-2RS1**	***6021-RS1**
	190	36		7.480	1.417	140	104	3.65	7 000	3 600	3.7	***6221-2Z**	***6221-Z**
	190	36		7.480	1.417	140	104	3.65	–	2 200	3.7	***6221-2RS1**	***6221-RS1**
	225	49		8.858	1.929	182	153	5.1	6 300	3 200	8.25	**6321-2Z**	**6321-Z**
110	140	16	**4.331**	5.512	0.630	28.1	26	1.25	9 500	4 500	0.6	**61822-2RZ**	–
	140	16		5.512	0.630	28.1	26	1.25	–	2 600	0.6	**61822-2RS1**	–
	170	28		6.693	1.102	85.2	73.5	2.4	8 000	4 000	1.95	***6022-2Z**	***6022-Z**
	170	28		6.693	1.102	85.2	73.5	2.4	–	2 400	1.95	***6022-2RS1**	***6022-RS1**
	200	38		7.874	1.496	151	118	4	6 700	3 400	4.35	***6222-2Z**	***6222-Z**
	240	50		9.449	1.969	203	180	5.7	6 000	3 000	9.55	**6322-2ZTN9**	**6322-ZTN9**
120	150	16	**4.724**	5.906	0.630	29.1	28	1.29	8 500	4 300	0.65	**61824-2RZ**	–
	150	16		5.906	0.630	29.1	28	1.29	–	2 400	0.65	**61824-2RS1**	–
	180	28		7.087	1.102	88.4	80	2.75	7 500	3 800	2.05	***6024-2Z**	***6024-Z**
	180	28		7.087	1.102	88.4	80	2.75	–	2 200	2.05	***6024-2RS1**	***6024-RS1**
	215	40		8.465	1.575	146	118	3.9	6 300	3 200	5.15	**6224-2Z**	**6224-Z**
130	165	18	**5.118**	6.496	0.709	37.7	43	1.6	8 000	3 800	0.93	**61826-2RZ**	–
	165	18		6.496	0.709	37.7	43	1.6	–	2 200	0.93	**61826-2RS1**	–
	200	33		7.874	1.299	112	100	3.35	7 000	3 400	3.15	***6026-2Z**	***6026-Z**
	200	33		7.874	1.299	112	100	3.35	–	2 000	3.15	***6026-2RS1**	***6026-RS1**
	230	40		9.055	1.575	156	132	4.15	5 600	3 000	5.8	**6226-2Z**	**6226-Z**
140	175	18	**5.512**	6.890	0.709	39	46.5	1.66	7 500	3 600	0.99	**61828-2RZ**	–
	175	18		6.890	0.709	39	46.5	1.66	–	2 000	0.99	**61828-2RS1**	–
	210	33		8.268	1.299	111	108	3.45	6 700	3 200	3.35	**6028-2Z**	**6028-Z**
	210	33		8.268	1.299	111	108	3.45	–	1 800	3.35	**6028-2RS1**	**6028-RS1**
150	225	35	**5.906**	8.858	1.378	125	125	3.9	6 000	3 000	4.8	**6030-2Z**	**6030-Z**
	225	35		8.858	1.378	125	125	3.9	–	1 700	4.8	**6030-2RS1**	**6030-RS1**
160	240	38	**6.299**	9.449	1.496	143	143	4.3	5 600	2 800	5.9	**6032-2Z**	**6032-Z**
	240	38		9.449	1.496	143	143	4.3	–	1 600	5.9	**6032-2RS1**	**6032-RS1**

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ICOS™ oil sealed bearing units

d **12 - 30** mm

d **0.472 - 1.181** in

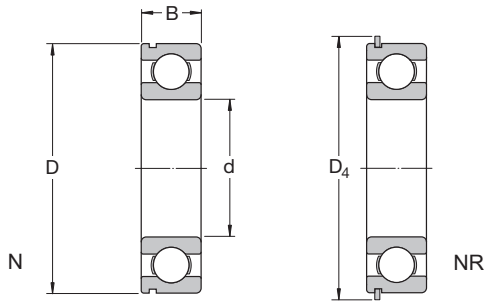


Principal dimensions								Basic load ratings dynamic	static	Fatigue load limit	Limiting speed	Mass	Designation
d	D	B	C	d	D	B	C	C	C_0	P_u			
mm				in				kN		kN	r/min	kg	–
12	32	10	12.6	**0.472**	1.260	0.394	0.496	7.28	3.1	0.132	14 000	0.041	* ICOS-D1B01-TN9
15	35	11	13.2	**0.591**	1.378	0.433	0.520	8.06	3.75	0.16	12 000	0.048	* ICOS-D1B02-TN9
17	40	12	14.2	**0.669**	1.575	0.472	0.559	9.95	4.75	0.2	11 000	0.071	* ICOS-D1B03-TN9
20	47	14	16.2	**0.787**	1.850	0.551	0.638	13.5	6.55	0.28	9 300	0.11	* ICOS-D1B04-TN9
25	52	15	17.2	**0.984**	2.047	0.591	0.677	14.8	7.8	0.335	7 700	0.14	* ICOS-D1B05-TN9
30	62	16	19.4	**1.181**	2.441	0.630	0.764	20.3	11.2	0.475	6 500	0.22	* ICOS-D1B06-TN9

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Single row deep groove ball bearings with snap ring groove

d **10 - 55** mm
d **0.394 - 2.165** in



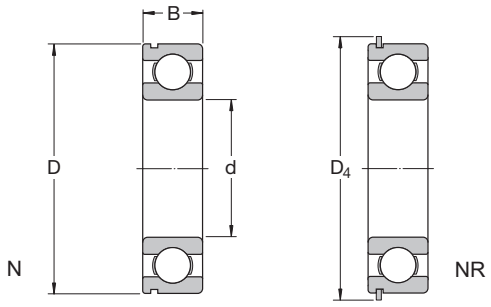
Principal dimensions								Basic load ratings dynamic		Fatigue load limit	Speed ratings Reference speed	Limiting speed	Mass	Designations Bearing with snap ring groove	snap ring groove and snap ring	Snap ring
d	D	B	D_4	d	D	B	D_4	C	C_0	P_u						
mm				in				kN		kN	r/min		kg	–		
10	30	9	34.7	**0.394**	1.181	0.354	1.366	5.4	2.36	0.1	56 000	34 000	0.032	***6200 N**	***6200 NR**	SP 30
12	32	10	36.7	**0.472**	1.260	0.394	1.445	7.28	3.1	0.132	50 000	32 000	0.037	***6201 N**	***6201 NR**	SP 32
15	35	11	39.7	**0.591**	1.378	0.433	1.563	8.06	3.75	0.16	43 000	28 000	0.045	***6202 N**	***6202 NR**	SP 35
17	40	12	44.6	**0.669**	1.575	0.472	1.756	9.95	4.75	0.2	38 000	24 000	0.065	***6203 N**	***6203 NR**	SP 40
	47	14	52.7		1.850	0.551	2.075	14.3	6.55	0.275	34 000	22 000	0.12	***6303 N**	***6303 NR**	SP 47
20	42	12	46.3	**0.787**	1.654	0.472	1.823	9.5	5	0.212	38 000	24 000	0.069	***6004 N**	***6004 NR**	SP 42
	47	14	52.7		1.850	0.551	2.075	13.5	6.55	0.28	32 000	20 000	0.11	***6204 N**	***6204 NR**	SP 47
	52	15	57.9		2.047	0.591	2.280	16.8	7.8	0.335	30 000	19 000	0.14	***6304 N**	***6304 NR**	SP 52
25	47	12	52.7	**0.984**	1.850	0.472	2.075	11.9	6.55	0.275	32 000	20 000	0.08	***6005 N**	***6005 NR**	SP 47
	52	15	57.9		2.047	0.591	2.280	14.8	7.8	0.335	28 000	18 000	0.13	***6205 N**	***6205 NR**	SP 52
	62	17	67.7		2.441	0.669	2.665	23.4	11.6	0.49	24 000	16 000	0.23	***6305 N**	***6305 NR**	SP 62
30	55	13	60.7	**1.181**	2.165	0.512	2.390	13.8	8.3	0.355	28 000	17 000	0.12	***6006 N**	***6006 NR**	SP 55
	62	16	67.7		2.441	0.630	2.665	20.3	11.2	0.475	24 000	15 000	0.2	***6206 N**	***6206 NR**	SP 62
	72	19	78.6		2.835	0.748	3.094	29.6	16	0.67	20 000	13 000	0.35	***6306 N**	***6306 NR**	SP 72
35	62	14	67.7	**1.378**	2.441	0.551	2.665	16.8	10.2	0.44	24 000	15 000	0.16	***6007 N**	***6007 NR**	SP 62
	72	17	78.6		2.835	0.669	3.094	27	15.3	0.655	20 000	13 000	0.29	***6207 N**	***6207 NR**	SP 72
	80	21	86.6		3.150	0.827	3.409	35.1	19	0.815	19 000	12 000	0.46	***6307 N**	***6307 NR**	SP 80
	100	25	106.5		3.937	0.984	4.193	55.3	31	1.29	16 000	10 000	0.95	**6407 N**	**6407 NR**	SP 100
40	68	15	74.6	**1.575**	2.677	0.591	2.937	17.8	11.6	0.49	22 000	14 000	0.19	***6008 N**	***6008 NR**	SP 68
	80	18	86.6		3.150	0.709	3.409	32.5	19	0.8	18 000	11 000	0.37	***6208 N**	***6208 NR**	SP 80
	90	23	96.5		3.543	0.906	3.799	42.3	24	1.02	17 000	11 000	0.63	***6308 N**	***6308 NR**	SP 90
	110	27	116.6		4.331	1.063	4.591	63.7	36.5	1.53	14 000	9 000	1.25	**6408 N**	**6408 NR**	SP 110
45	75	16	81.6	**1.772**	2.953	0.630	3.213	22.1	14.6	0.64	20 000	12 000	0.25	***6009 N**	***6009 NR**	SP 75
	85	19	91.6		3.346	0.748	3.606	35.1	21.6	0.915	17 000	11 000	0.41	***6209 N**	***6209 NR**	SP 85
	100	25	106.5		3.937	0.984	4.193	55.3	31.5	1.34	15 000	9 500	0.83	***6309 N**	***6309 NR**	SP 100
	120	29	129.7		4.724	1.142	5.106	76.1	45	1.9	13 000	8 500	1.55	**6409 N**	**6409 NR**	SP 120
50	80	16	86.6	**1.969**	3.150	0.630	3.409	22.9	16	0.71	18 000	11 000	0.26	***6010 N**	***6010 NR**	SP 80
	90	20	96.5		3.543	0.787	3.799	37.1	23.2	0.98	15 000	10 000	0.46	***6210 N**	***6210 NR**	SP 90
	110	27	116.6		4.331	1.063	4.591	65	38	1.6	13 000	8 500	1.05	***6310 N**	***6310 NR**	SP 110
	130	31	139.7		5.118	1.220	5.500	87.1	52	2.2	12 000	7 500	1.9	**6410 N**	**6410 NR**	SP 130
55	90	18	96.5	**2.165**	3.543	0.709	3.799	29.6	21.2	0.9	16 000	10 000	0.39	***6011 N**	***6011 NR**	SP 90
	100	21	106.5		3.937	0.827	4.193	46.2	29	1.25	14 000	9 000	0.61	***6211 N**	***6211 NR**	SP 100
	120	29	129.7		4.724	1.142	5.106	74.1	45	1.9	12 000	8 000	1.35	***6311 N**	***6311 NR**	SP 120
	140	33	149.7		5.512	1.299	5.894	99.5	62	2.6	11 000	7 000	2.3	**6411 N**	**6411 NR**	SP 140

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Single row deep groove ball bearings with snap ring groove

d **60 - 120** mm

d **2.362 - 4.724** in

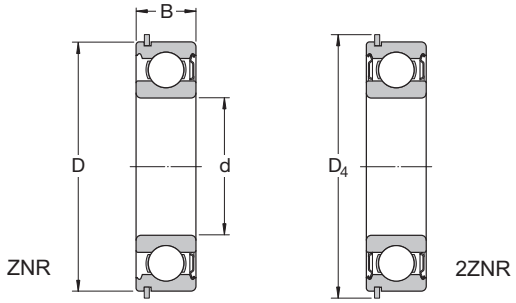


Principal dimensions								Basic load ratings dynamic	static	Fatigue load limit	Speed ratings Reference speed	Limiting speed	Mass	Designations Bearing with snap ring groove	snap ring groove and snap ring	Snap ring
d	D	B	D_4	d	D	B	D_4	C	C_0	P_u						
mm				in				kN		kN	r/min		kg	–		
60	95	18	101.6	**2.362**	3.740	0.709	4.000	30.7	23.2	0.98	15 000	9 500	0.42	***6012 N**	***6012 NR**	SP 95
	110	22	116.6		4.331	0.866	4.591	55.3	36	1.53	13 000	8 000	0.78	***6212 N**	***6212 NR**	SP 110
	130	31	139.7		5.118	1.220	5.500	85.2	52	2.2	11 000	7 000	1.7	***6312 N**	***6312 NR**	SP 130
	150	35	159.7		5.906	1.378	6.287	108	69.5	2.9	10 000	6 300	2.75	**6412 N**	**6412 NR**	SP 150
65	100	18	106.5	**2.559**	3.937	0.709	4.193	31.9	25	1.06	14 000	9 000	0.44	***6013 N**	***6013 NR**	SP 100
	120	23	129.7		4.724	0.906	5.106	58.5	40.5	1.73	12 000	7 500	0.99	***6213 N**	***6213 NR**	SP 120
	140	33	149.7		5.512	1.299	5.894	97.5	60	2.5	10 000	6 700	2.1	***6313 N**	***6313 NR**	SP 140
	160	37	169.7		6.299	1.457	6.681	119	78	3.15	9 500	6 000	3.3	**6413 N**	**6413 NR**	SP 160
70	110	20	116.6	**2.756**	4.331	0.787	4.591	39.7	31	1.32	13 000	8 000	0.6	***6014 N**	***6014 NR**	SP 110
	125	24	134.7		4.921	0.945	5.303	63.7	45	1.9	11 000	7 000	1.05	***6214 N**	***6214 NR**	SP 125
	150	35	159.7		5.906	1.378	6.287	111	68	2.75	9 500	6 300	2.5	***6314 N**	***6314 NR**	SP 150
75	115	20	121.6	**2.953**	4.528	0.787	4.787	41.6	33.5	1.43	12 000	7 500	0.64	***6015 N**	***6015 NR**	SP 115
	130	25	139.7		5.118	0.984	5.500	68.9	49	2.04	10 000	6 700	1.2	***6215 N**	***6215 NR**	SP 130
	160	37	169.7		6.299	1.457	6.681	119	76.5	3	9 000	5 600	3	***6315 N**	***6315 NR**	SP 160
80	125	22	134.7	**3.150**	4.921	0.866	5.303	49.4	40	1.66	11 000	7 000	0.85	***6016 N**	***6016 NR**	SP 125
	140	26	149.7		5.512	1.024	5.894	72.8	55	2.2	9 500	6 000	1.4	***6216 N**	***6216 NR**	SP 140
85	130	22	139.7	**3.346**	5.118	0.866	5.500	52	43	1.76	11 000	6 700	0.89	***6017 N**	***6017 NR**	SP 130
	150	28	159.7		5.906	1.102	6.287	87.1	64	2.5	9 000	5 600	1.8	***6217 N**	***6217 NR**	SP 150
90	140	24	149.7	**3.543**	5.512	0.945	5.894	60.5	50	1.96	10 000	6 300	1.15	***6018 N**	***6018 NR**	SP 140
	160	30	169.7		6.299	1.181	6.681	101	73.5	2.8	8 500	5 300	2.15	***6218 N**	***6218 NR**	SP 160
95	170	32	182.9	**3.740**	6.693	1.260	7.201	114	81.5	3	8 000	5 000	2.6	***6219 N**	***6219 NR**	SP 170
100	150	24	159.7	**3.937**	5.906	0.945	6.287	63.7	54	2.04	9 500	5 600	1.25	***6020 N**	***6020 NR**	SP 150
	180	34	192.9		7.087	1.339	7.594	127	93	3.35	7 500	4 800	3.15	***6220 N**	***6220 NR**	SP 180
105	160	26	169.7	**4.134**	6.299	1.024	6.681	76.1	65.5	2.4	8 500	5 300	1.6	***6021 N**	***6021 NR**	SP 160
110	170	28	182.9	**4.331**	6.693	1.102	7.201	85.2	73.5	2.6	8 000	5 000	1.95	***6022 N**	***6022 NR**	SP 170
120	180	28	192.9	**4.724**	7.087	1.102	7.594	88.4	80	2.75	7 500	4 800	2.05	***6024 N**	***6024 NR**	SP 180

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Single row deep groove ball bearings with snap ring groove and shields

d **10 - 70** mm
d **0.394 - 2.756** in

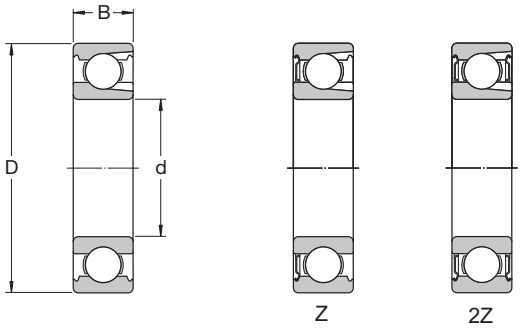


Principal dimensions								Basic load ratings dynamic	static	Fatigue load limit	Speed ratings Reference speed	Limiting[1] speed	Mass	Designations Bearing with one shield and snap	two shields and snap	Snap[2] ring
d	D	B	D_4	d	D	B	D_4	C	C_0	P_u						
mm				in				kN		kN	r/min		kg	–		
10	30	9	34.7	**0.394**	1.181	0.354	1.366	5.4	2.36	0.1	56 000	34 000	0.032	***6200-ZNR**	***6200-2ZNR**	SP 30
12	32	10	36.7	**0.472**	1.260	0.394	1.445	7.28	3.1	0.132	50 000	32 000	0.037	***6201-ZNR**	***6201-2ZNR**	SP 32
15	35	11	39.7	**0.591**	1.378	0.433	1.563	8.06	3.75	0.16	43 000	28 000	0.045	***6202-ZNR**	***6202-2ZNR**	SP 35
17	40	12	44.6	**0.669**	1.575	0.472	1.756	9.95	4.75	0.2	38 000	24 000	0.065	***6203-ZNR**	***6203-2ZNR**	SP 40
	47	14	52.7		1.850	0.551	2.075	14.3	6.55	0.275	34 000	22 000	0.12	***6303-ZNR**	***6303-2ZNR**	SP 47
20	42	12	46.3	**0.787**	1.654	0.472	1.823	9.95	5	0.212	38 000	24 000	0.069	***6004-ZNR**	***6004-2ZNR**	SP 42
	47	14	52.7		1.850	0.551	2.075	13.5	6.55	0.28	32 000	20 000	0.11	***6204-ZNR**	***6204-2ZNR**	SP 47
	52	15	57.9		2.047	0.591	2.280	16.8	7.8	0.335	30 000	19 000	0.14	***6304-ZNR**	***6304-2ZNR**	SP 52
25	47	12	52.7	**0.984**	1.850	0.472	2.075	11.9	6.55	0.275	32 000	20 000	0.08	***6005-ZNR**	***6005-2ZNR**	SP 47
	52	15	57.9		2.047	0.591	2.280	14.8	7.8	0.335	28 000	18 000	0.13	***6205-ZNR**	***6205-2ZNR**	SP 52
	62	17	67.7		2.441	0.669	2.665	23.4	11.6	0.49	24 000	16 000	0.23	***6305-ZNR**	***6305-2ZNR**	SP 62
30	62	16	67.7	**1.181**	2.441	0.630	2.665	20.3	11.2	0.475	24 000	15 000	0.2	***6206-ZNR**	***6206-2ZNR**	SP 62
	72	19	78.6		2.835	0.748	3.094	29.6	16	0.67	20 000	13 000	0.35	***6306-ZNR**	***6306-2ZNR**	SP 72
35	72	17	78.6	**1.378**	2.835	0.669	3.094	27	15.3	0.655	20 000	13 000	0.29	***6207-ZNR**	***6207-2ZNR**	SP 72
	80	21	86.6		3.150	0.827	3.409	35.1	19	0.815	19 000	12 000	0.46	***6307-ZNR**	***6307-2ZNR**	SP 80
40	80	18	86.6	**1.575**	3.150	0.709	3.409	32.5	19	0.8	18 000	11 000	0.37	***6208-ZNR**	***6208-2ZNR**	SP 80
	90	23	96.5		3.543	0.906	3.799	42.3	24	1.02	17 000	11 000	0.63	***6308-ZNR**	***6308-2ZNR**	SP 90
45	85	19	91.6	**1.772**	3.346	0.748	3.606	35.1	21.6	0.915	17 000	11 000	0.41	***6209-ZNR**	***6209-2ZNR**	SP 85
	100	25	106.5		3.937	0.984	4.193	55.3	31.5	1.34	15 000	9 500	0.83	***6309-ZNR**	***6309-2ZNR**	SP 100
50	90	20	96.5	**1.969**	3.543	0.787	3.799	37.1	23.2	0.98	15 000	10 000	0.46	***6210-ZNR**	***6210-2ZNR**	SP 90
	110	27	116.6		4.331	1.063	4.591	65	38	1.6	13 000	8 500	1.05	***6310-ZNR**	***6310-2ZNR**	SP 110
55	100	21	106.5	**2.165**	3.937	0.827	4.193	46.2	29	1.25	14 000	9 000	0.61	***6211-ZNR**	***6211-2ZNR**	SP 100
	120	29	129.7		4.724	1.142	5.106	74.1	45	1.9	12 000	8 000	1.35	***6311-ZNR**	***6311-2ZNR**	SP 120
60	110	22	116.6	**2.362**	4.331	0.866	4.591	55.3	36	1.53	13 000	8 000	0.78	***6212-ZNR**	***6212-2ZNR**	SP 110
	130	31	139.7		5.118	1.220	5.500	85.2	52	2.2	11 000	7 000	1.7	***6312-ZNR**	***6312-2ZNR**	SP 130
65	120	23	129.7	**2.559**	4.724	0.906	5.106	58.5	40.5	1.73	12 000	7 500	0.99	***6213-ZNR**	***6213-2ZNR**	SP 120
	140	33	149.7		5.512	1.299	5.894	97.5	60	2.5	10 000	6 700	2.1	***6313-ZNR**	***6313-2ZNR**	SP 140
70	125	24	134.7	**2.756**	4.921	0.945	5.303	63.7	45	1.9	11 000	7 000	1.05	***6214-ZNR**	***6214-2ZNR**	SP 125
	150	35	159.7		5.906	1.378	6.287	111	68	2.75	9 500	6 300	2.5	***6314-ZNR**	***6314-2ZNR**	SP 150

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Single row deep groove ball bearings with filling slots

d **25 - 100** mm
d **0.984 - 3.937** in

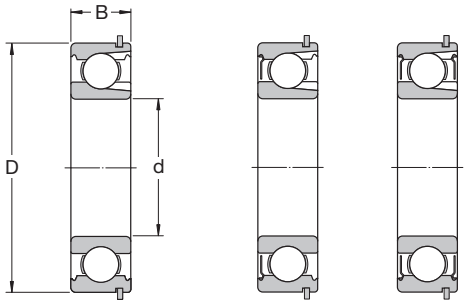


Principal dimensions						Basic load ratings		Fatigue load limit	Speed ratings		Mass	Designations		
						dynamic	static		Ref.	Limiting		Bearing		
												open	with shields on	
d	D	B	d	D	B	C	C_0	P_u	speed	speed			one side	two sides
mm			in			kN		kN	r/min		kg	–		
25	62	17	**0.984**	2.441	0.669	22.9	15.6	0.67	20 000	13 000	0.24	**305**	**305-Z**	**305-2Z**
30	62	16	**1.181**	2.441	0.630	22.9	17.3	0.735	20 000	12 000	0.21	**206**	**206-Z**	**206-2Z**
	72	19		2.835	0.748	29.2	20.8	0.88	18 000	11 000	0.37	**306**	**306-Z**	**306-2Z**
35	72	17	**1.378**	2.835	0.669	29.7	22.8	0.965	17 000	11 000	0.31	**207**	**207-Z**	**207-2Z**
	80	21		3.150	0.827	39.1	28.5	1.2	16 000	10 000	0.48	**307**	**307-Z**	**307-2Z**
40	80	18	**1.575**	3.150	0.709	33.6	26.5	1.12	15 000	9 500	0.39	**208**	**208-Z**	**208-2Z**
	90	23		3.543	0.906	46.8	36	1.53	14 000	9 000	0.64	**308**	**308-Z**	**308-2Z**
45	85	19	**1.772**	3.346	0.748	39.6	32.5	1.37	14 000	9 000	0.44	**209**	**209-Z**	**209-2Z**
	100	25		3.937	0.984	59.4	46.5	1.96	13 000	8 000	0.88	**309**	**309-Z**	**309-2Z**
50	90	20	**1.969**	3.543	0.787	39.1	34.5	1.46	13 000	8 000	0.5	**210**	**210-Z**	**210-2Z**
	110	27		4.331	1.063	64.4	52	2.2	11 000	7 000	1.15	**310**	**310-Z**	**310-2Z**
55	100	21	**2.165**	3.937	0.827	48.4	44	1.86	12 000	7 500	0.66	**211**	**211-Z**	**211-2Z**
	120	29		4.724	1.142	79.2	67	2.85	10 000	6 700	1.5	**311**	**311-Z**	**311-2Z**
60	110	22	**2.362**	4.331	0.866	56.1	50	2.12	11 000	6 700	0.85	**212**	**212-Z**	**212-2Z**
	130	31		5.118	1.220	91.3	78	3.35	9 500	6 000	1.85	**312**	**312-Z**	**312-2Z**
65	120	23	**2.559**	4.724	0.906	60.5	58.5	2.5	10 000	6 000	1.05	**213**	**213-Z**	**213-2Z**
	140	33		5.512	1.299	102	90	3.75	9 000	5 600	2.3	**313**	**313-Z**	**313-2Z**
70	125	24	**2.756**	4.921	0.945	66	65.5	2.75	9 500	6 000	1.15	**214**	**214-Z**	**214-2Z**
	150	35		5.906	1.378	114	102	4.15	8 000	5 000	2.75	**314**	**314-Z**	**314-2Z**
75	130	25	**2.953**	5.118	0.984	72.1	72	3	9 000	5 600	1.25	**215**	**215-Z**	**215-2Z**
	160	37		6.299	1.457	125	116	4.55	7 500	4 800	3.25	**315**	**315-Z**	**315-2Z**
80	140	26	**3.150**	5.512	1.024	88	85	3.45	8 500	5 300	1.55	**216**	**216-Z**	**216-2Z**
	170	39		6.693	1.535	138	129	4.9	7 000	4 500	3.95	**316**	**316-Z**	**316-2Z**
85	150	28	**3.346**	5.906	1.102	96.8	100	3.9	7 500	4 800	1.95	**217**	**217-Z**	**217-2Z**
	180	41		7.087	1.614	147	146	5.3	6 700	4 300	4.6	**317**	**317-Z**	**317-2Z**
90	160	30	**3.543**	6.299	1.181	112	114	4.3	7 000	4 500	2.35	**218**	**218-Z**	**218-2Z**
	190	43		7.480	1.693	157	160	5.7	6 300	4 000	5.4	**318**	**318-Z**	**318-2Z**
95	170	32	**3.740**	6.693	1.260	121	122	4.5	6 700	4 300	2.7	**219**	**219-Z**	**219-2Z**
100	180	34	**3.937**	7.087	1.339	134	140	5	6 300	4 000	3.45	**220**	**220-Z**	**220-2Z**

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Single row deep groove ball bearings with filling slots and snap ring

d **25 - 95** mm
d **0.984 - 3.740** in



NR ZNR 2ZNR

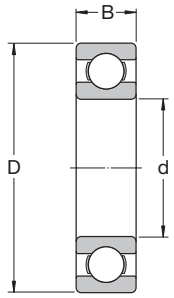
Principal dimensions						Basic load ratings		Fatigue load limit	Speed ratings		Mass	Designations			
						dynamic	static		Reference	Limiting[1]		Bearing	with shields on		Snap[2]
d	D	B	d	D	B	C	C_0	P_u	speed	speed		open	one side	two sides	ring
mm			in			kN		kN	r/min		kg	–			
25	62	17	**0.984**	2.441	0.669	23	16	1	20 000	13 000	0.24	**305 NR**	**305-ZNR**	**305-2ZNR**	SP 62
30	62	16	**1.181**	2.441	0.630	22.9	17.3	0.735	20 000	12 000	0.21	**206 NR**	**206-ZNR**	**206-2ZNR**	SP 62
	72	19		2.835	0.748	29.2	20.8	0.88	18 000	11 000	0.37	**306 NR**	**306-ZNR**	**306-2ZNR**	SP 72
35	72	17	**1.378**	2.835	0.669	29.7	22.8	0.965	17 000	11 000	0.31	**207 NR**	**207-ZNR**	**207-2ZNR**	SP 72
	80	21		3.150	0.827	39.1	28.5	1.2	16 000	10 000	0.48	**307 NR**	**307-ZNR**	**307-2ZNR**	SP 80
40	80	18	**1.575**	3.150	0.709	33.6	26.5	1.12	15 000	9 500	0.39	**208 NR**	**208-ZNR**	**208-2ZNR**	SP 80
	90	23		3.543	0.906	46.8	36	1.53	14 000	9 000	0.64	**308 NR**	**308-ZNR**	**308-2ZNR**	SP 90
45	85	19	**1.772**	3.346	0.748	39.6	32.5	1.37	14 000	9 000	0.44	**209 NR**	**209-ZNR**	**209-2ZNR**	SP 85
	100	25		3.937	0.984	59.4	46.5	1.96	13 000	8 000	0.88	**309 NR**	**309-ZNR**	**309-2ZNR**	SP 100
50	90	20	**1.969**	3.543	0.787	39.1	34.5	1.46	13 000	8 000	0.5	**210 NR**	**210-ZNR**	**210-2ZNR**	SP 90
	110	27		4.331	1.063	64.4	52	2.2	11 000	7 000	1.15	**310 NR**	**310-ZNR**	**310-2ZNR**	SP 110
55	100	21	**2.165**	3.937	0.827	48.4	44	1.86	12 000	7 500	0.66	**211 NR**	**211-ZNR**	**211-2ZNR**	SP 100
	120	29		4.724	1.142	79.2	67	2.85	10 000	6 700	1.5	**311 NR**	**311-ZNR**	**311-2ZNR**	SP 120
60	110	22	**2.362**	4.331	0.866	56.1	50	2.12	11 000	6 700	0.85	**212 NR**	**212-ZNR**	**212-2ZNR**	SP 110
	130	31		5.118	1.220	91.3	78	3.35	9 500	6 000	1.85	**312 NR**	**312-ZNR**	**312-2ZNR**	SP 130
65	120	23	**2.559**	4.724	0.906	60.5	58.5	2.5	10 000	6 000	1.05	**213 NR**	**213-ZNR**	**213-2ZNR**	SP 120
	140	33		5.512	1.299	102	90	3.75	9 000	5 600	2.3	**313 NR**	**313-ZNR**	**313-2ZNR**	SP 140
70	125	24	**2.756**	4.921	0.945	66	65.5	2.75	9 500	6 000	1.15	**214 NR**	**214-ZNR**	**214-2ZNR**	SP 125
	150	35		5.906	1.378	114	102	4.15	8 000	5 000	2.75	**314 NR**	**314-ZNR**	**314-2ZNR**	SP 150
75	130	25	**2.953**	5.118	0.984	72.1	72	3	9 000	5 600	1.25	**215 NR**	**215-ZNR**	**215-2ZNR**	SP 130
80	140	26	**3.150**	5.512	1.024	88	85	3.45	8 500	5 300	1.55	**216 NR**	**216-ZNR**	**216-2ZNR**	SP 140
85	150	28	**3.346**	5.906	1.102	96.8	100	3.9	7 500	4 800	1.95	**217 NR**	–	–	SP 150
90	160	30	**3.543**	6.299	1.181	112	114	4	7 000	4 500	2.35	**218 NR**	–	–	SP 160
95	170	32	**3.740**	6.693	1.260	121	122	5	6 700	4 300	2.7	**219 NR**	–	–	SP 170

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Stainless steel deep groove ball bearings

d **1 - 12** mm

d **0.039 - 0.472** in



Principal dimensions						Basic load ratings		Fatigue load limit	Speed ratings		Mass	Designation
						dynamic	static		Reference speed	Limiting speed		
d	D	B	d	D	B	C	C_0	P_u				
mm			in			kN		kN	r/min		kg	–
1	3	1	**0.039**	0.118	0.039	0.056	0.017	0.00075	240 000	150 000	0.000036	**W 618/1**
2	5	1.5	**0.079**	0.197	0.059	0.133	0.045	0.002	85 000	100 000	0.00015	**W 618/2**
3	6	3	**0.118**	0.236	0.118	0.178	0.057	0.0025	170 000	110 000	0.00035	**W 637/3**
	10	4		0.394	0.157	0.39	0.129	0.0056	130 000	80 000	0.0016	**W 623**
4	9	2.5	**0.157**	0.354	0.098	0.449	0.173	0.0075	140 000	85 000	0.0007	**W 618/4**
	11	4		0.433	0.157	0.605	0.224	0.0098	130 000	80 000	0.0019	**W 619/4**
	12	4		0.472	0.157	0.676	0.27	0.012	120 000	75 000	0.0024	**W 604**
	13	5		0.512	0.197	0.793	0.28	0.012	110 000	67 000	0.0031	**W 624**
5	11	3	**0.197**	0.433	0.118	0.54	0.245	0.011	120 000	75 000	0.0012	**W 618/5**
	13	4		0.512	0.157	0.741	0.325	0.014	110 000	67 000	0.0023	**W 619/5**
	16	5		0.630	0.197	0.923	0.365	0.016	95 000	60 000	0.005	**W 625**
6	13	3.5	**0.236**	0.512	0.138	0.741	0.335	0.015	110 000	67 000	0.002	**W 618/6**
	15	5		0.591	0.197	1.04	0.455	0.02	100 000	63 000	0.0039	**W 619/6**
	19	6		0.748	0.236	1.86	0.915	0.04	80 000	50 000	0.0084	**W 626**
7	17	5	**0.276**	0.669	0.197	1.24	0.54	0.024	90 000	56 000	0.0049	**W 619/7**
	19	6		0.748	0.236	1.86	0.915	0.04	85 000	53 000	0.0075	**W 607**
	22	7		0.866	0.276	2.76	1.32	0.057	70 000	45 000	0.013	**W 627**
8	16	4	**0.315**	0.630	0.157	1.12	0.55	0.024	90 000	56 000	0.003	**W 618/8**
	19	6		0.748	0.236	1.59	0.71	0.031	80 000	50 000	0.0071	**W 619/8**
	22	7		0.866	0.276	2.76	1.32	0.057	75 000	48 000	0.012	**W 608**
9	17	4	**0.354**	0.669	0.157	1.19	0.62	0.027	85 000	53 000	0.0034	**W 618/9**
	20	6		0.787	0.236	1.74	0.83	0.036	80 000	48 000	0.0076	**W 619/9**
	24	7		0.945	0.276	3.12	1.6	0.071	70 000	43 000	0.014	**W 609**
	26	8		1.024	0.315	3.9	1.9	0.083	60 000	38 000	0.02	**W 629**
10	15	3	**0.394**	0.591	0.118	0.715	0.425	0.018	85 000	56 000	0.0014	**W 61700**
	19	5		0.748	0.197	1.14	0.57	0.025	80 000	48 000	0.0055	**W 61800**
	22	6		0.866	0.236	1.74	0.815	0.036	75 000	45 000	0.01	**W 61900**
	26	8		1.024	0.315	3.9	1.9	0.083	67 000	40 000	0.019	**W 6000**
	30	9		1.181	0.354	4.23	2.28	0.1	56 000	34 000	0.032	**W 6200**
	35	11		1.378	0.433	6.76	3.25	0.143	50 000	32 000	0.053	**W 6300**
12	21	5	**0.472**	0.827	0.197	1.21	0.64	0.028	70 000	43 000	0.0063	**W 61801**
	24	6		0.945	0.236	1.9	0.95	0.043	67 000	40 000	0.011	**W 61901**
	28	8		1.102	0.315	4.23	2.28	0.1	60 000	38 000	0.022	**W 6001**
	32	10		1.260	0.394	5.85	3	0.132	50 000	32 000	0.037	**W 6201**
	37	12		1.457	0.472	8.19	4.05	0.176	45 000	28 000	0.06	**W 6301**

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Stainless steel deep groove ball bearings

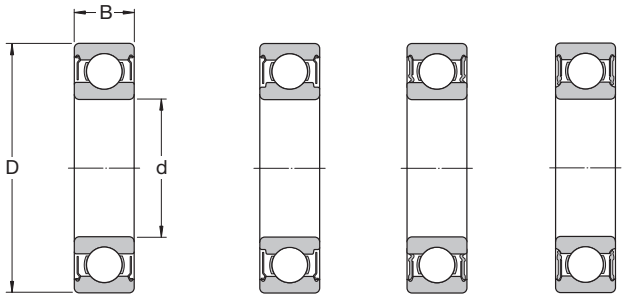
d **15 - 50** mm
d **0.591 - 1.969** in

Principal dimensions						Basic load ratings		Fatigue load limit	Speed ratings		Mass	Designation
						dynamic	static		Reference speed	Limiting speed		
d	D	B	d	D	B	C	C_0	P_u				
mm			in			kN		kN	r/min		kg	–
15	24	5	**0.591**	0.945	0.197	1.3	0.78	0.034	60 000	38 000	0.0074	**W 61802**
	28	7		1.102	0.276	3.64	2.16	0.095	56 000	34 000	0.016	**W 61902**
	32	9		1.260	0.354	4.68	2.75	0.12	50 000	32 000	0.03	**W 6002**
	35	11		1.378	0.433	6.5	3.65	0.16	43 000	28 000	0.045	**W 6202**
	42	13		1.654	0.512	9.56	5.2	0.228	38 000	24 000	0.085	**W 6302**
17	30	7	**0.669**	1.181	0.276	3.9	2.45	0.108	56 000	28 000	0.018	**W 61903**
	35	10		1.378	0.394	5.07	3.15	0.137	45 000	28 000	0.039	**W 6003**
	40	12		1.575	0.472	8.06	4.65	0.2	38 000	24 000	0.065	**W 6203**
	47	14		1.850	0.551	11.4	6.3	0.275	34 000	22 000	0.12	**W 6303**
20	32	7	**0.787**	1.260	0.276	3.38	2.24	0.104	45 000	28 000	0.018	**W 61804**
	42	12		1.654	0.472	7.93	4.9	0.212	38 000	24 000	0.069	**W 6004**
	47	14		1.850	0.551	10.8	6.4	0.28	32 000	20 000	0.11	**W 6204**
	52	15		2.047	0.591	13.5	7.65	0.335	30 000	19 000	0.14	**W 6304**
25	47	12	**0.984**	1.850	0.472	8.52	5.7	0.25	32 000	20 000	0.08	**W 6005**
	52	15		2.047	0.591	11.9	7.65	0.335	28 000	18 000	0.13	**W 6205**
	62	17		2.441	0.669	17.2	10.8	0.475	24 000	16 000	0.23	**W 6305**
30	55	13	**1.181**	2.165	0.512	11.1	8	0.355	28 000	17 000	0.12	**W 6006**
	62	16		2.441	0.630	16.3	10.8	0.475	24 000	15 000	0.2	**W 6206**
	72	19		2.835	0.748	22.5	14.6	0.64	20 000	13 000	0.35	**W 6306**
35	62	14	**1.378**	2.441	0.551	13.5	10	0.44	24 000	15 000	0.16	**W 6007**
	72	17		2.835	0.669	21.6	14.6	0.655	20 000	13 000	0.29	**W 6207**
40	68	15	**1.575**	2.677	0.591	14	10.8	0.49	22 000	14 000	0.19	**W 6008**
	80	18		3.150	0.709	24.7	17.3	0.75	18 000	11 000	0.37	**W 6208**
45	75	16	**1.772**	2.953	0.630	17.8	14.6	0.64	20 000	12 000	0.25	**W 6009**
	85	19		3.346	0.748	27.6	19.6	0.865	17 000	11 000	0.41	**W 6209**
50	80	16	**1.969**	3.150	0.630	18.2	16	0.71	18 000	11 000	0.26	**W 6010**
	90	20		3.543	0.787	29.6	22.4	0.98	15 000	10 000	0.46	**W 6210**

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Sealed stainless steel deep groove ball bearings

d **1.5 - 7** mm
d **0.059 - 0.276** in



2Z 2Z 2RS1 2RS1

Principal dimensions						Basic load ratings dynamic	static	Fatigue load limit	Speed ratings Reference speed	Limiting speed	Mass	Designation
d	D	B	d	D	B	C	C_0	P_u				
mm			in			kN		kN	r/min		kg	–
1.5	4	2	**0.059**	0.157	0.079	0.114	0.034	0.0015	220 000	110 000	0.00014	**W 638/1.5-2Z**
2	5	2.3	**0.079**	0.197	0.091	0.156	0.048	0.002	190 000	95 000	0.00018	**W 638/2-2Z**
	6	3		0.236	0.118	0.238	0.075	0.0034	180 000	90 000	0.00035	**W 639/2-2Z**
3	6	3	**0.118**	0.236	0.118	0.176	0.057	0.0025	170 000	85 000	0.00035	**W 637/3-2Z**
	7	3		0.276	0.118	0.216	0.085	0.0036	160 000	80 000	0.00045	**W 638/3-2Z**
	8	3		0.315	0.118	0.39	0.129	0.0056	150 000	75 000	0.00067	**W 619/3-2Z**
	8	4		0.315	0.157	0.39	0.129	0.0056	150 000	75 000	0.0008	**W 639/3-2Z**
	10	4		0.394	0.157	0.39	0.129	0.0056	130 000	63 000	0.0015	**W 623-2Z**
4	9	3.5	**0.157**	0.354	0.138	0.449	0.173	0.0075	140 000	70 000	0.001	**W 628/4-2Z**
	9	4		0.354	0.157	0.449	0.173	0.0075	140 000	70 000	0.001	**W 638/4-2Z**
	11	4		0.433	0.157	0.605	0.224	0.0098	130 000	63 000	0.0017	**W 619/4-2Z**
	12	4		0.472	0.157	0.676	0.27	0.012	120 000	60 000	0.0023	**W 604-2Z**
	13	5		0.512	0.197	0.793	0.28	0.012	110 000	53 000	0.0031	**W 624-2Z**
	13	5		0.512	0.197	0.793	0.28	0.012	–	32 000	0.0031	**W 624-2RS1**
5	8	2.5	**0.197**	0.315	0.098	0.14	0.057	0.0025	140 000	70 000	0.00034	**W 627/5-2Z**
	11	4		0.433	0.157	0.54	0.245	0.011	120 000	60 000	0.00062	**W 628/5-2Z**
	11	5		0.433	0.197	0.54	0.245	0.011	120 000	60 000	0.0019	**W 638/5-2Z**
	13	4		0.512	0.157	0.741	0.325	0.014	110 000	53 000	0.0025	**W 619/5-2Z**
	16	5		0.630	0.197	0.923	0.365	0.016	95 000	48 000	0.005	**W 625-2Z**
	16	5		0.630	0.197	0.923	0.365	0.016	–	28 000	0.005	**W 625-2RS1**
	19	6		0.748	0.236	1.86	0.915	0.04	80 000	40 000	0.009	**W 635-2Z**
6	10	3	**0.236**	0.394	0.118	0.319	0.137	0.0061	120 000	60 000	0.0007	**W 627/6-2Z**
	13	5		0.512	0.197	0.741	0.335	0.015	110 000	53 000	0.0027	**W 628/6-2Z**
	15	5		0.591	0.197	1.04	0.455	0.02	100 000	50 000	0.0037	**W 619/6-2Z**
	19	6		0.748	0.236	1.86	0.915	0.04	80 000	40 000	0.0087	**W 626-2Z**
	19	6		0.748	0.236	1.86	0.915	0.04	–	24 000	0.0087	**W 626-2RS1**
7	11	3	**0.276**	0.433	0.118	0.291	0.127	0.0056	110 000	56 000	0.0007	**W 627/7-2Z**
	14	5		0.551	0.197	0.806	0.39	0.017	100 000	50 000	0.003	**W 628/7-2Z**
	17	5		0.669	0.197	1.24	0.54	0.024	90 000	45 000	0.005	**W 619/7-2Z**
	19	6		0.748	0.236	1.86	0.915	0.04	85 000	43 000	0.0082	**W 607-2Z**
	19	6		0.748	0.236	1.86	0.915	0.04	–	24 000	0.0082	**W 607-2RS1**
	22	7		0.866	0.276	2.76	1.32	0.057	70 000	36 000	0.013	**W 627-2Z**

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Sealed stainless steel deep groove ball bearings

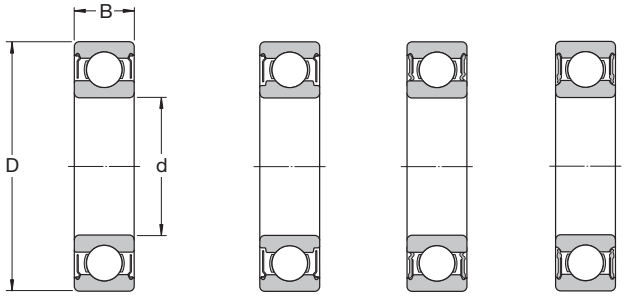
d **8 - 12** mm
d **0.315 - 0.472** in

Principal dimensions						Basic load ratings		Fatigue load limit	Speed ratings		Mass	Designation
						dynamic	static		Reference speed	Limiting speed		
d	D	B	d	D	B	C	C_0	P_u				
mm			in			kN		kN	r/min		kg	–
8	16	5	**0.315**	0.630	0.197	1.12	0.55	0.024	90 000	45 000	0.004	**W 628/8-2Z**
	16	6		0.630	0.236	1.12	0.55	0.024	90 000	45 000	0.0043	**W 638/8-2Z**
	19	6		0.748	0.236	1.59	0.71	0.031	80 000	40 000	0.0076	**W 619/8-2Z**
	19	6		0.748	0.236	1.46	0.6	1.6	–	24 000	0.0071	**W 619/8-2RS1**
	22	7		0.866	0.276	2.76	1.32	0.057	75 000	38 000	0.013	**W 608-2Z**
	22	7		0.866	0.276	2.76	1.32	0.057	–	22 000	0.013	**W 608-2RS1**
9	17	5	**0.354**	0.669	0.197	1.19	0.62	0.027	85 000	43 000	0.0044	**W 628/9-2Z**
	20	6		0.787	0.236	1.74	0.83	0.036	80 000	38 000	0.0085	**W 619/9-2Z**
	24	7		0.945	0.276	3.12	1.6	0.071	70 000	34 000	0.016	**W 609-2Z**
	26	8		1.024	0.315	3.9	1.9	0.083	60 000	30 000	0.022	**W 629-2Z**
10	19	5	**0.394**	0.748	0.197	1.14	0.57	0.025	80 000	38 000	0.0056	**W 61800-2Z**
	19	7		0.748	0.276	1.14	0.57	0.025	80 000	38 000	0.0074	**W 63800-2Z**
	22	6		0.866	0.236	1.74	0.815	0.036	75 000	36 000	0.01	**W 61900-2Z**
	26	8		1.024	0.315	3.9	1.9	0.083	67 000	34 000	0.019	**W 6000-2Z**
	26	8		1.024	0.315	3.9	1.9	0.083	–	19 000	0.019	**W 6000-2RS1**
	30	9		1.181	0.354	4.23	2.28	0.1	56 000	28 000	0.032	**W 6200-2Z**
	30	9		1.181	0.354	4.23	2.28	0.1	–	17 000	0.032	**W 6200-2RS1**
	35	11		1.378	0.433	6.76	3.25	0.143	50 000	26 000	0.053	**W 6300-2Z**
	35	11		1.378	0.433	6.76	3.25	0.143	–	15 000	0.053	**W 6300-2RS1**
12	21	5	**0.472**	0.827	0.197	1.21	0.64	0.028	70 000	36 000	0.0065	**W 61801-2Z**
	24	6		0.945	0.236	1.9	0.95	0.043	67 000	32 000	0.012	**W 61901-2Z**
	28	8		1.102	0.315	4.23	2.28	0.1	60 000	30 000	0.022	**W 6001-2Z**
	28	8		1.102	0.315	4.23	2.28	0.1	–	17 000	0.022	**W 6001-2RS1**
	32	10		1.260	0.394	5.85	3	0.132	50 000	26 000	0.037	**W 6201-2Z**
	32	10		1.260	0.394	5.85	3	0.132	–	15 000	0.037	**W 6201-2RS1**
	37	12		1.457	0.472	8.19	4.05	0.176	45 000	22 000	0.06	**W 6301-2Z**
	37	12		1.457	0.472	8.19	4.05	0.176	–	14 000	0.06	**W 6301-2RS1**

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Sealed stainless steel deep groove ball bearings

d **15 - 25** mm
d **0.591 - 0.984** in



2Z 2Z 2RS1 2RS1

Principal dimensions						Basic load ratings dynamic	static	Fatigue load limit	Speed ratings Reference speed	Limiting speed	Mass	Designation
d	D	B	d	D	B	C	C_0	P_u				
mm			in			kN		kN	r/min		kg	–
15	24	5	**0.591**	0.945	0.197	1.3	0.78	0.034	60 000	30 000	0.0076	**W 61802-2Z**
	28	7		1.102	0.276	3.64	2.16	0.095	56 000	28 000	0.019	**W 61902-2Z**
	28	7		1.102	0.276	3.64	2.16	0.095	–	16 000	0.019	**W 61902-2RS1**
	32	9		1.260	0.354	4.68	2.75	0.12	50 000	26 000	0.03	**W 6002-2Z**
	32	9		1.260	0.354	4.68	2.75	0.12	–	14 000	0.03	**W 6002-2RS1**
	35	11		1.378	0.433	6.5	3.65	0.16	43 000	22 000	0.045	**W 6202-2Z**
	35	11		1.378	0.433	6.5	3.65	0.16	–	13 000	0.045	**W 6202-2RS1**
	42	13		1.654	0.512	9.56	5.2	0.228	38 000	19 000	0.082	**W 6302-2Z**
	42	13		1.654	0.512	9.56	5.2	0.228	–	12 000	0.082	**W 6302-2RS1**
17	26	5	**0.669**	1.024	0.197	1.4	0.9	0.039	56 000	34 000	0.0082	**W 61803-2Z**
	30	7		1.181	0.276	3.9	2.45	0.108	50 000	32 000	0.019	**W 61903-2Z**
	30	7		1.181	0.276	3.9	2.45	0.108	–	14 000	0.019	**W 61903-2RS1**
	35	10		1.378	0.394	5.07	3.15	0.137	45 000	22 000	0.039	**W 6003-2Z**
	35	10		1.378	0.394	5.07	3.15	0.137	–	13 000	0.039	**W 6003-2RS1**
	40	12		1.575	0.472	8.06	4.65	0.2	38 000	19 000	0.065	**W 6203-2Z**
	40	12		1.575	0.472	8.06	4.65	0.2	–	12 000	0.065	**W 6203-2RS1**
	47	14		1.850	0.551	11.4	6.3	0.275	34 000	17 000	0.12	**W 6303-2Z**
	47	14		1.850	0.551	11.4	6.3	0.275	–	11 000	0.12	**W 6303-2RS1**
20	32	7	**0.787**	1.260	0.276	3.38	2.24	0.104	–	13 000	0.018	**W 61804-2RS1**
	37	9		1.457	0.354	5.4	3.55	0.156	–	12 000	0.04	**W 61904-2RS1**
	42	12		1.654	0.472	7.93	4.9	0.212	38 000	19 000	0.069	**W 6004-2Z**
	42	12		1.654	0.472	7.93	4.9	0.212	–	11 000	0.069	**W 6004-2RS1**
	47	14		1.850	0.551	10.8	6.4	0.28	32 000	17 000	0.11	**W 6204-2Z**
	47	14		1.850	0.551	10.8	6.4	0.28	–	10 000	0.11	**W 6204-2RS1**
	52	15		2.047	0.591	13.5	7.65	0.335	30 000	15 000	0.14	**W 6304-2Z**
	52	15		2.047	0.591	13.5	7.65	0.335	–	9 500	0.14	**W 6304-2RS1**
25	42	9	**0.984**	1.654	0.354	5.92	4.15	0.193	–	10 000	0.047	**W 61905-2RS1**
	47	12		1.850	0.472	8.52	5.7	0.25	32 000	16 000	0.08	**W 6005-2Z**
	47	12		1.850	0.472	8.52	5.7	0.25	–	9 500	0.08	**W 6005-2RS1**
	52	15		2.047	0.591	11.9	7.65	0.335	28 000	14 000	0.13	**W 6205-2Z**
	52	15		2.047	0.591	11.9	7.65	0.335	–	8 500	0.13	**W 6205-2RS1**
	62	17		2.441	0.669	17.2	10.8	0.475	24 000	13 000	0.23	**W 6305-2Z**
	62	17		2.441	0.669	17.2	10.8	0.475	–	7 500	0.23	**W 6305-2RS1**

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Sealed stainless steel deep groove ball bearings

d **30 - 50** mm
d **1.181 - 1.969** in

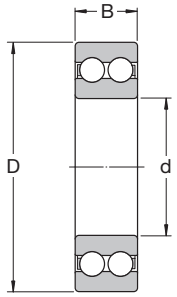
Principal dimensions						Basic load ratings		Fatigue load limit	Speed ratings		Mass	Designation
						dynamic	static		Reference speed	Limiting speed		
d	D	B	d	D	B	C	C_0	P_u				
mm			in			kN		kN	r/min		kg	–
30	55	13	**1.181**	2.165	0.512	11.1	8	0.355	28 000	14 000	0.12	**W 6006-2Z**
	55	13		2.165	0.512	11.1	8	0.355	–	8 000	0.12	**W 6006-2RS1**
	62	16		2.441	0.630	16.3	10.8	0.475	24 000	12 000	0.2	**W 6206-2Z**
	62	16		2.441	0.630	16.3	10.8	0.475	–	7 500	0.2	**W 6206-2RS1**
	72	19		2.835	0.748	22.5	14.6	0.64	20 000	11 000	0.35	**W 6306-2Z**
	72	19		2.835	0.748	22.5	14.6	0.64	–	6 300	0.35	**W 6306-2RS1**
35	62	14	**1.378**	2.441	0.551	13.5	10	0.44	24 000	12 000	0.16	**W 6007-2Z**
	62	14		2.441	0.551	13.5	10	0.44	–	7 000	0.16	**W 6007-2RS1**
	72	17		2.835	0.669	21.6	14.6	0.655	20 000	10 000	0.29	**W 6207-2Z**
	72	17		2.835	0.669	21.6	14.6	0.655	–	6 300	0.29	**W 6207-2RS1**
40	68	15	**1.575**	2.677	0.591	14	10.8	0.49	22 000	11 000	0.19	**W 6008-2Z**
	68	15		2.677	0.591	14	10.8	0.49	–	6 300	0.19	**W 6008-2RS1**
	80	18		3.150	0.709	24.7	17.3	0.75	18 000	90 000	0.37	**W 6208-2Z**
	80	18		3.150	0.709	24.7	17.3	0.75	–	5 600	0.37	**W 6208-2RS1**
45	75	16	**1.772**	2.953	0.630	17.8	14.6	0.64	20 000	10 000	0.25	**W 6009-2Z**
	75	16		2.953	0.630	17.8	14.6	0.64	–	5 600	0.25	**W 6009-2RS1**
	85	19		3.346	0.748	27.6	19.6	0.865	17 000	8 500	0.41	**W 6209-2Z**
	85	19		3.346	0.748	27.6	19.6	0.865	–	5 000	0.41	**W 6209-2RS1**
50	80	16	**1.969**	3.150	0.630	18.2	16	0.71	18 000	9 000	0.26	**W 6010-2Z**
	80	16		3.150	0.630	18.2	16	0.71	–	5 000	0.26	**W 6010-2RS1**
	90	20		3.543	0.787	29.6	22.4	0.98	15 000	8 000	0.46	**W 6210-2Z**
	90	20		3.543	0.787	29.6	22.4	0.98	–	4 800	0.46	**W 6210-2RS1**

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Double row deep groove ball bearings

d **10 - 100** mm

d **0.394 - 3.937** in

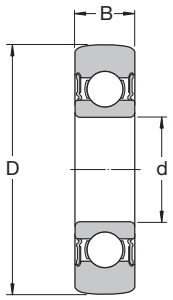


Principal dimensions						Basic load ratings		Fatigue load limit	Speed ratings		Mass	Designation
						dynamic	static		Reference speed	Limiting speed		
d	D	B	d	D	B	C	C_0	P_u				
mm			in			kN		kN	r/min		kg	–
10	30	14	**0.394**	1.181	0.551	9.23	5.2	0.224	40 000	22 000	0.049	**4200 ATN9**
12	32	14	**0.472**	1.260	0.551	10.6	6.2	0.26	36 000	20 000	0.053	**4201 ATN9**
	37	17		1.457	0.669	13	7.8	0.325	34 000	18 000	0.092	**4301 ATN9**
15	35	14	**0.591**	1.378	0.551	11.9	7.5	0.32	32 000	17 000	0.059	**4202 ATN9**
	42	17		1.654	0.669	14.8	9.5	0.405	28 000	15 000	0.12	**4302 ATN9**
17	40	16	**0.669**	1.575	0.630	14.8	9.5	0.405	28 000	15 000	0.09	**4203 ATN9**
	47	19		1.850	0.748	19.5	13.2	0.56	24 000	13 000	0.16	**4303 ATN9**
20	47	18	**0.787**	1.850	0.709	17.8	12.5	0.53	24 000	13 000	0.14	**4204 ATN9**
	52	21		2.047	0.827	23.4	16	0.68	22 000	12 000	0.21	**4304 ATN9**
25	52	18	**0.984**	2.047	0.709	19	14.6	0.62	20 000	11 000	0.16	**4205 ATN9**
	62	24		2.441	0.945	31.9	22.4	0.95	18 000	10 000	0.34	**4305 ATN9**
30	62	20	**1.181**	2.441	0.787	26	20.8	0.88	17 000	9 500	0.26	**4206 ATN9**
	72	27		2.835	1.063	41	30	1.27	16 000	8 500	0.5	**4306 ATN9**
35	72	23	**1.378**	2.835	0.906	35.1	28.5	1.2	15 000	8 000	0.4	**4207 ATN9**
	80	31		3.150	1.220	50.7	38	1.63	14 000	7 500	0.69	**4307 ATN9**
40	80	23	**1.575**	3.150	0.906	37.1	32.5	1.37	13 000	7 000	0.5	**4208 ATN9**
	90	33		3.543	1.299	55.9	45	1.9	12 000	6 700	0.95	**4308 ATN9**
45	85	23	**1.772**	3.346	0.906	39	36	1.53	12 000	6 700	0.54	**4209 ATN9**
	100	36		3.937	1.417	68.9	56	2.4	11 000	6 000	1.25	**4309 ATN9**
50	90	23	**1.969**	3.543	0.906	41	40	1.7	11 000	6 000	0.58	**4210 ATN9**
	110	40		4.331	1.575	81.9	69.5	2.9	10 000	5 300	1.7	**4310 ATN9**
55	100	25	**2.165**	3.937	0.984	44.9	44	1.9	10 000	5 600	0.8	**4211 ATN9**
	120	43		4.724	1.693	97.5	83	3.45	9 000	5 000	2.15	**4311 ATN9**
60	110	28	**2.362**	4.331	1.102	57.2	55	2.36	9 500	5 300	1.1	**4212 ATN9**
	130	46		5.118	1.811	112	98	4.15	8 500	4 500	2.65	**4312 ATN9**
65	120	31	**2.559**	4.724	1.220	67.6	67	2.8	8 500	4 800	1.45	**4213 ATN9**
	140	48		5.512	1.890	121	106	4.5	8 000	4 300	3.25	**4313 ATN9**
70	125	31	**2.756**	4.921	1.220	70.2	73.5	3.1	8 000	4 300	1.5	**4214 ATN9**
	150	51		5.906	2.008	138	125	5	7 000	3 800	3.95	**4314 ATN9**
75	130	31	**2.953**	5.118	1.220	72.8	80	3.35	7 500	4 000	1.6	**4215 ATN9**
	160	55		6.299	2.165	156	143	5.5	6 700	3 600	4.8	**4315 ATN9**
80	140	33	**3.150**	5.512	1.299	80.6	90	3.6	7 000	3 800	2	**4216 ATN9**
85	150	36	**3.346**	5.906	1.417	93.6	102	4	7 000	3 600	2.55	**4217 ATN9**
90	160	40	**3.543**	6.299	1.575	112	122	4.65	6 300	3 400	3.2	**4218 ATN9**
100	180	46	**3.937**	7.087	1.811	140	156	5.6	5 600	3 000	4.7	**4220 ATN9**

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Single row cam rollers

D **32 - 80** mm
D **1.260 - 3.150** in



Dimensions												Limiting speed	Mass	Designation
D	B	d	D	B	d	C	C_0	P_u	d_1 ~	D_1 ~	$r_{1,2}$ Min			
mm			in			kN		kN	r/min	kg	–			
32	9	10	**1.260**	0.354	0.394	4.62	2	0.085	14.8	23.4	0.6	12 000	0.041	**361200 R**
35	10	12	**1.378**	0.394	0.472	6.24	2.6	0.11	16.1	25.9	0.6	11 000	0.052	**361201 R**
40	11	15	**1.575**	0.433	0.591	7.02	3.2	0.134	19.2	29.7	0.6	9 500	0.074	**361202 R**
47	12	17	**1.850**	0.472	0.669	8.84	4.15	0.176	21.6	32.9	0.6	8 500	0.11	**361203 R**
52	14	20	**2.047**	0.551	0.787	11.4	5.4	0.228	26	38.7	1	7 500	0.16	**361204 R**
62	15	25	**2.441**	0.591	0.984	12.7	6.8	0.285	31.4	44.2	1	6 300	0.24	**361205 R**
72	16	30	**2.835**	0.630	1.181	17.4	9.3	0.4	37.6	52.1	1	5 300	0.34	**361206 R**
80	17	35	**3.150**	0.669	1.378	22.1	11.8	0.5	44	60.6	1.1	4 500	0.43	**361207 R**

Note: C3 clearance is standard

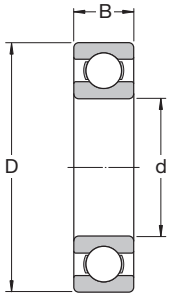
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MRC R series small inch-size

d **3.2 - 38.1** mm

d **0.1250 - 1.5000** in

R series bearings are single-row radial conrad-type bearings that are available in inch sizes for shafts from 1/8" to 1 1/2" in diameter. Open, shielded, and sealed types are available, and many sizes are available in stainless steel. R series supplied with ABMA CN radial clearance unless otherwise specified.



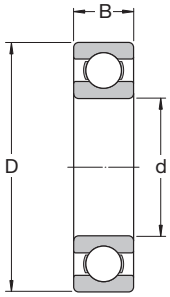
MRC Bearing Number	Bore d	Outside Diameter D	Width B	Bore d	Outside Diameter D	Width B	Basic Radial Load Rating Dynamic[2]	Static	Speed Ratings[1] Open and Shielded Grease	Oil	Single and Double Sealed Grease
	mm			in			kN	kN	rpm	rpm	rpm
R-2	**3.2**	9.5	4.0	**0.1250**	0.3750	0.1562	0.312	0.120	75 000	91 000	52 000
R-2-A	**3.2**	12.7	4.4	**0.1250**	0.5000	0.1719	0.312	0.120	75 000	91 000	52 000
R-3	**4.8**	12.7	4.0	**0.1875**	0.5000	0.1562	0.956	0.490	57 000	69 000	40 000
R-4	**6.4**	15.9	5.0	**0.2500**	0.6250	0.1960	1.480	0.620	44 000	54 000	31 000
R-4-A	**6.4**	19.1	5.6	**0.2500**	0.7500	0.2188	2.810	1.160	39 000	48 000	27 000
R-6	**9.5**	22.2	5.6	**0.3750**	0.8750	0.2188	3.320	1.340	31 000	38 000	21 000
R-8	**12.7**	28.6	6.4	**0.5000**	1.1250	0.2500	5.070	2.400	24 000	29 000	16 000
R-10	**15.9**	34.9	7.1	**0.6250**	1.3750	0.2812	6.050	3.250	18 000	22 000	13 000
R-12	**19.1**	41.3	7.9	**0.7500**	1.6250	0.3125	9.360	5.100	16 000	19 000	11 000
R-14	**22.2**	47.6	9.5	**0.8750**	1.8750	0.3750	10.100	5.850	14 000	17 000	9 600
R-16	**25.4**	50.8	9.5	**1.0000**	2.0000	0.3750	10.100	6.000	13 000	16 000	9 000
R-18	**28.6**	54.0	9.5	**1.1250**	2.1250	0.3750	12.500	7.500	11 000	14 000	7 900
R-20	**31.8**	57.2	9.5	**1.1250**	2.2500	0.3750	14.000	9.300	11 000	13 000	7 500
R-24	**38.1**	66.7	11.1	**1.5000**	2.6250	0.4375	16.800	11.800	9 000	11 000	6 200

[1] Listed values are for pressed steel or polyamide cage, ABEC-1.
For phenolic composition cage, multiply by 1.66 for grease and 2.00 for oil. For machined bronze cage, multiply by 1.25 for grease and 1.50 for oil. For phenolic composition cage, ABEC-5 or 7, multiply by 2.30 for grease and 2.80 for oil. The speed rating adjustment factors have been determined through historical application and practice.

[2] Rating for one million revolutions or 500 hours at 33 1/3 RPM.

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Single row deep groove ball bearings
Series RLS
d **0.5000 - 2.5000** mm
d **12.700 - 63.500** in

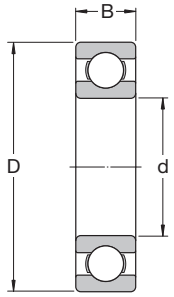


Bearing Number	Designation		Principal Dimensions						Basic dynamic load rating	Speed ratings Lubrication grease	oil	Mass
			d	D	B	d	D	B	C			
	-Z	-2Z	in			mm			kN	rpm		kg
RLS4A	+	+	**0.5000**	1.3125	0.3750	**12.700**	33.337	9.925	6.180	20 000	26 000	0.04
RLS 5	+	+	**0.6250**	1.5625	0.4375	**15.875**	39.688	11.112	9.560	17 000	20 000	0.06
RLS 6	+	+	**0.7500**	1.8750	0.5625	**19.050**	47.625	14.288	12.700	15 000	18 000	0.12
RLS 7	+	+	**0.8750**	2.0000	0.5625	**22.225**	50.800	14.288	15.100	14 000	17 000	0.12
RLS 8	+	+	**1.0000**	2.2500	0.6250	**25.400**	57.150	15.875	17.800	11 000	14 000	0.17
RLS 9	+	+	**1.1250**	2.5000	0.6250	**28.575**	63.500	15.875	19.500	10 000	13 000	0.22
RLS 10	+	+	**1.2500**	2.7500	0.6875	**31.750**	69.850	17.462	22.500	9 500	12 000	0.29
RLS 11			**1.3750**	3.0000	0.6875	**34.925**	76.200	17.462	25.500	9 000	11 000	0.35
RLS 12			**1.5000**	3.2500	0.7500	**38.100**	82.550	19.050	29.100	8 500	10 000	0.44
RLS 13			**1.6250**	3.5000	0.7500	**41.275**	88.900	19.050	32.500	7 500	9 000	0.51
RLS 14			**1.7500**	3.7500	0.8125	**44.450**	95.250	20.638	35.100	7 000	8 500	0.66
RLS 15			**1.8750**	4.0000	0.8125	**47.625**	101.600	20.638	43.600	6 300	7 500	0.74
RLS 16			**2.0000**	4.0000	0.8125	**50.800**	101.600	20.638	43.600	6 300	7 500	0.70
RLS 18			**2.2500**	4.5000	0.8750	**57.150**	114.300	22.225	52.700	6 000	7 000	0.96
RLS 20			**2.5000**	5.0000	0.9375	**63.500**	127.000	23.812	62.400	5 000	6 000	1.26

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Single row deep groove ball bearings
Series RLS

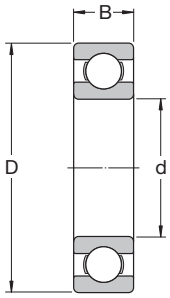
d **2.7500 - 6.0000** mm
d **69.850 - 152.400** in



Bearing Number	Principal Dimensions						Basic dynamic load rating	Speed ratings Lubrication		Mass
	d	D	B	d	D	B	C	grease	oil	
	in			mm			kN	rpm	rpm	kg
RLS 22	**2.7500**	5.2500	0.9375	**69.850**	133.350	23.812	66.300	4 800	5 600	1.37
RLS 24	**3.0000**	5.7500	1.0625	**76.200**	146.050	26.988	72.800	4 500	5 300	1.85
RLS 26	**3.2500**	6.0000	1.0625	**82.550**	152.400	26.988	83.200	4 000	4 800	1.93
RLS 28	**3.5000**	6.5000	1.1250	**88.900**	165.100	28.575	95.600	3 800	4 500	2.38
RLS 30	**3.7500**	6.7500	1.1250	**95.250**	171.450	28.575	101.000	3 600	4 300	2.51
RLS 32	**4.0000**	7.2500	1.2500	**101.600**	184.150	31.750	108.000	3 400	4 000	3.25
RLS 34	**4.2500**	7.5000	1.2500	**107.950**	133.350	31.750	124.000	3 200	3 800	3.92
RLS 36	**4.5000**	8.0000	1.3125	**114.300**	203.200	33.338	130.000	3 000	3 600	4.76
RLS 38	**4.7500**	8.2500	1.3125	**120.850**	209.550	33.338	138.000	2 800	3 400	5.0
RLS 40	**5.0000**	9.0000	1.3750	**127.000**	228.600	34.925	148.000	2 600	3 200	6.5
RLS 44	**5.5000**	9.5000	1.3750	**139.700**	241.300	34.925	156.000	2 400	3 000	6.9
RLS 48	**6.0000**	10.5000	1.5625	**152.400**	266.700	39.688	172.000	2 000	2 600	9.8

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Single row deep groove ball bearings
Series RMS
d **0.5000 - 5.5000** mm
d **12.700 - 139.700** in



Bearing Number	Principal Dimensions						Basic dynamic load rating	Speed ratings Lubrication		Mass
								grease	oil	
	d	D	B	d	D	B	C			
	in			mm			kN	rpm	rpm	kg
RMS 4	**0.5000**	1.6250	0.6250	**12.700**	41.275	15.875	11.400	18 000	22 000	0.10
RMS 5	**0.6250**	1.8125	0.6250	**15.875**	46.038	15.875	13.800	16 000	19 000	0.12
RMS 6	**0.7500**	2.0000	0.6875	**19.050**	50.800	17.462	15.900	14 000	17 000	0.16
RMS 7	**0.8750**	2.2500	0.6875	**22.225**	57.150	17.462	18.600	12 000	15 000	0.21
RMS 8	**1.0000**	2.5000	0.7500	**25.400**	63.500	19.050	21.200	10 000	13 000	0.27
RMS 9	**1.1250**	2.8125	0.8125	**28.575**	71.438	20.638	27.000	9 500	12 000	0.37
RMS 10	**1.2500**	3.1250	0.8750	**31.750**	79.375	22.225	33.200	9 000	11 000	0.49
RMS 11	**1.3750**	3.5000	0.8750	**34.925**	88.900	22.225	40.300	8 000	9 500	0.63
RMS 12	**1.5000**	3.7500	0.9375	**38.100**	95.250	23.812	44.200	7 500	9 000	0.79
RMS 13	**1.6250**	4.0000	0.9375	**41.275**	101.600	23.812	52.700	6 700	8 000	0.91
RMS 14	**1.7500**	4.2500	1.0625	**44.450**	107.950	26.988	57.200	6 300	7 500	1.13
RMS 15	**1.8750**	4.5000	1.0625	**47.625**	114.300	26.988	66.300	6 000	7 000	1.24
RMS 16	**2.0000**	4.5000	1.0625	**50.800**	114.300	26.988	66.300	6 000	7 000	1.19
RMS 18	**2.2500**	5.0000	1.2500	**57.150**	127.000	31.750	76.100	5 300	6 300	1.70
RMS 20	**2.5000**	5.0000	1.2500	**63.500**	139.700	31.750	92.300	4 800	5 600	2.05
RMS 22	**2.7500**	6.2500	1.3750	**69.850**	158.750	34.925	104.000	4 300	5 000	2.97
RMS 24	**3.0000**	7.0000	1.5625	**76.200**	177.800	39.688	124.000	3 800	4 500	4.41
RMS 26	**3.2500**	7.5000	1.5625	**82.550**	190.500	39.688	133.000	3 400	4 000	5.00
RMS 28	**3.5000**	8.1250	1.7500	**88.900**	206.375	44.450	153.000	3 200	3 800	6.50
RMS 30	**3.7500**	8.2500	1.7500	**95.250**	209.550	44.450	153.000	3 200	3 800	6.50
RMS 32	**4.0000**	8.5000	1.7500	**101.600**	215.900	44.450	163.000	3 000	3 600	8.10
RMS 34	**4.2500**	8.7500	1.7500	**107.950**	222.250	44.450	174.000	2 800	3 400	8.50
RMS 36	**4.5000**	9.3750	2.0000	**114.300**	238.125	50.800	186.000	2 600	3 200	11.70
RMS 38	**4.7500**	10.0000	2.0000	**120.850**	254.000	50.800	195.000	2 400	3 000	12.70
RMS 40	**5.0000**	10.0000	2.0000	**127.000**	254.000	50.800	195.000	2 400	3 000	12.10
RMS 44 M	**5.5000**	11.0000	2.0000	**139.700**	279.400	50.800	212.000	2 000	2 600	-

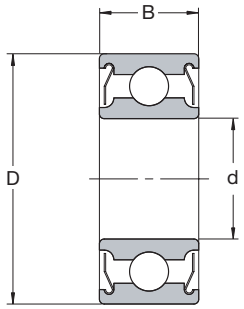
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MRC Cartridge-type bearings types SFFC, SZZC, SLLC

d **8 - 100** mm

d **0.3150 - 3.9370** in

Cartridge-type bearings have an extra large grease chamber packed with high quality lubricant. For applications where space for a lubrication system is limited or conditions demand a larger grease supply inside bearing.
Bearings designated SFFC have non-removable metal shields.
Many sizes are available with removable shields (SLLC) or synthetic rubber seals (SZZC).



MRC Bearing Number	Bore d	Outside Diameter D	Width B	Bore d	Outside Diameter D	Width B	Basic Radial Load Rating Dynamic[2]	Static	Speed Ratings[1] Open and Shielded Grease	Oil	Single and Double Sealed Grease
	mm			in			kN	kN	rpm	rpm	rpm
38-FFC	**8**	22	11.99	**0.3150**	0.8661	0.472	3.25	1.37	36 000	43 000	23 000
200-SFFC	**10**	30	14.29	**0.3937**	1.1811	9/16	5.07	2.40	24 000	30 000	17 000
201-SFFC	**12**	32	15.88	**0.4724**	1.2598	5/8	6.76	3.00	22 000	28 000	15 000
202-SFFC	**15**	35	15.88	**0.5906**	1.3780	5/8	7.61	3.75	19 000	24 000	13 000
203-SFFC	**17**	40	17.46	**0.6693**	1.5748	11/16	9.56	4.50	17 000	20 000	12 000
204-SFFC	**20**	47	20.64	**0.7874**	1.8504	13/16	13.00	6.70	15 000	18 000	10 000
205-SFFC	**25**	52	20.64	**0.9843**	2.0472	13/16	15.10	8.15	12 000	15 000	8 500
206-SFFC	**30**	62	23.81	**1.1811**	2.4409	15/16	20.80	11.40	10 000	13 000	7 500
207-SFFC	**35**	72	26.99	**1.3780**	2.8346	1 1/16	26.50	15.30	9 000	11 000	6 300
208-SFFC	**40**	80	30.16	**1.5748**	3.1496	1 3/16	32.50	20.00	8 500	10 000	5 600
209-SFFC	**45**	85	30.16	**1.7717**	3.3465	1 3/16	36.40	22.80	7 500	9 000	5 000
210-SFFC	**50**	90	30.16	**1.9685**	3.5433	1 3/16	35.10	23.20	7 000	8 500	4 800
211-SFFC	**55**	100	33.34	**2.1654**	3.9370	1 5/16	39.70	29.00	6 300	7 500	4 300
213-SFFC	**65**	120	38.10	**2.5591**	4.7244	1 1/2	62.40	44.00	5 300	6 300	3 600
214-SFFC	**70**	125	39.69	**2.7559**	4.9213	1 9/16	62.40	44.00	5 000	6 000	3 400
216-SFFC	**80**	140	44.45	**3.1496**	5.5118	1 3/4	78.00	53.00	4 500	5 300	3 000
304-SFFC	**20**	52	22.23	**0.7874**	2.0472	7/8	15.90	7.80	13 000	16 000	9 500
305-SFFC	**25**	62	25.40	**0.9843**	2.4409	1	21.00	11.00	11 000	14 000	7 500
306-SFFC	**30**	72	30.16	**1.1811**	2.8346	1 3/16	29.60	16.60	9 000	11 000	6 300
307-SFFC	**35**	80	34.93	**1.3780**	3.1496	1 3/8	36.40	20.00	8 500	10 000	6 000
308-SFFC	**40**	90	36.51	**1.5748**	3.5433	1 7/16	44.20	26.00	7 500	9 000	5 000
309-SFFC	**45**	100	39.69	**1.7717**	3.9370	1 9/16	52.00	30.00	6 700	8 000	4 500
310-SFFC	**50**	110	44.45	**1.9685**	4.3307	1 3/4	61.80	38.00	6 300	7 500	4 300
311-SFFC	**55**	120	49.21	**2.1654**	4.7244	1 15/16	71.50	45.00	5 600	6 700	3 800
312-SFFC	**60**	130	53.98	**2.3622**	5.1181	2 1/8	81.90	52.00	5 000	6 000	3 400
313-SFFC	**65**	140	58.74	**2.5591**	5.5118	2 5/16	92.30	60.00	4 800	5 600	3 200
314-SFFC	**70**	150	63.50	**2.7559**	5.9055	2 1/2	104.00	68.00	4 500	5 300	3 000
315-SFFC	**75**	160	68.26	**2.9528**	6.2992	2 11/16	124.00	85.00	4 300	5 000	2 800
316-SFFC	**80**	170	68.26	**3.1496**	6.6929	2 11/16	133.00	95.00	3 800	4 500	2 600
317-SFFC	**85**	180	73.03	**3.3465**	7.0866	2 7/8	133.00	96.50	3 600	4 300	2 400
318-SFFC	**90**	190	73.03	**3.5433**	7.4803	2 7/8	143.00	108.00	3 400	4 000	2 400
320-SFFC	**100**	215	82.55	**3.9370**	8.4646	3 1/4	182.00	150.00	3 000	3 600	2 100

1) Listed values are for pressed steel or polyamide cage, ABEC-1.
The values have been determined through historical application and practice.
2) Rating for one million revolutions or 500 hours at 33 1/3 RPM.

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