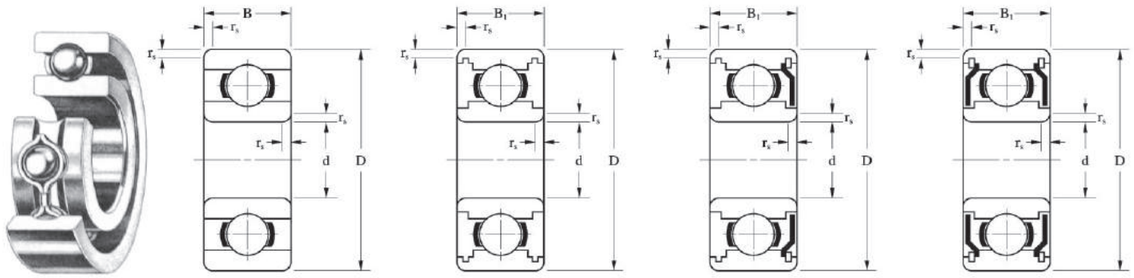
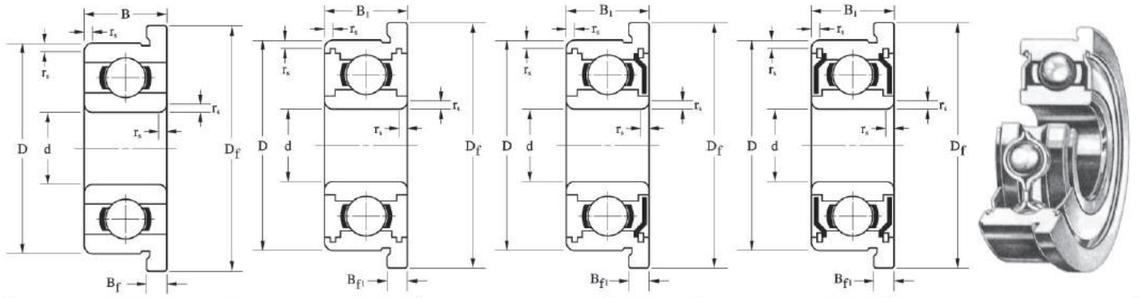
Metric series (5≦d≦9mm)





Bore Diameter: d		Outer Diameter: D		Flange Diameter: Df		Chamfer r's(min)		Open Bearings				Seal, Shield Bearings				
								Width: B		Flange Width: Bf		Bearing Reference				
												Open	Flange Open	2 Shields	Flange 2 Shields	2 Seals
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch					2RS / 2RU / TTS
5	0.1969	8	0.3150	9.2	0.3622	0.10	0.0039	2.0	0.0787	0.6	0.0236	MR85	MF85	–	–	– – –
		8	0.3150	9.2	0.3622	0.10	0.0039	–	–	–	–	–	–	MR85ZZ	MF85ZZ	– – TTS
		9	0.3543	10.2	0.4016	0.15	0.0059	2.5	0.0984	0.6	0.0236	MR95	MF95	MR95ZZ	MF95ZZ	– – TTS
		10	0.3937	11.2	0.4409	0.15	0.0059	3.0	0.1181	0.6	0.0236	MR105	MF105	–	–	– – –
		10	0.3937	11.6	0.4567	0.15	0.0059	–	–	–	–	–	–	MR105ZZ	MF105ZZ	2RS 2RU –
		11	0.4331	12.6	0.4961	0.15	0.0059	–	–	–	–	–	–	MR115ZZ	MF115ZZ	2RS 2RU –
		11	0.4331	12.5	0.4921	0.15	0.0059	3.0	0.1181	0.8	0.0315	685	F685	685ZZ	F685ZZ	2RS 2RU –
		13	0.5118	15.0	0.5906	0.20	0.0079	4.0	0.1575	1.0	0.0394	695(1)	F695(1)	695ZZ	F695ZZ	2RS 2RU –
		14	0.5512	16.0	0.6299	0.20	0.0079	5.0	0.1969	1.0	0.0394	605(1)	F605(1)	605ZZ	F605ZZ	2RS 2RU –
		16	0.6299	18.0	0.7087	0.30	0.0118	5.0	0.1969	1.0	0.0394	625(1)	F625(1)	625ZZ	F625ZZ	2RS 2RU –
		19	0.7480	22.0	0.8661	0.30	0.0118	6.0	0.2362	1.5	0.0591	635(1)	F635(1)	635ZZ	F635ZZ	2RS 2RU –
6	0.2362	10	0.3937	11.2	0.4409	0.15	0.0059	2.5	0.0984	0.6	0.0236	MR106	MF106	–	–	– – –
		10	0.3937	11.2	0.4409	0.10	0.0039	–	–	–	–	–	–	MR106ZZ	MF106ZZ	– – –
		10	0.3937	–	–	0.10	0.0039	3.0	0.1181	–	–	676(TTS)	–	–	–	– – TTS
		12	0.4724	13.2	0.5197	0.20	0.0079	3.0	0.1181	0.6	0.0236	MR126	MF126	–	–	– – –
		12	0.4724	13.6	0.5354	0.20	0.0079	–	–	–	–	–	–	MR126ZZ	MF126ZZ	2RS 2RU –
		13	0.5118	15.0	0.5906	0.15	0.0059	3.5	0.1378	1.0	0.0394	686	F686	686ZZ	F686ZZ	2RS 2RU TTS
		15	0.5906	17.0	0.6693	0.20	0.0079	5.0	0.1969	1.2	0.0472	696(1)	F696(1)	696ZZ	F696ZZ	2RS 2RU TTS
		16	0.6299	–	–	0.20	0.0079	5.0	0.1969	–	–	696A(1)	–	696AZZ	–	2RS 2RU –
		17	0.6693	19.0	0.7480	0.30	0.0118	6.0	0.2362	1.2	0.0472	606(1)	F606(1)	606ZZ	F606ZZ	2RS 2RU –
		19	0.7480	22.0	0.8661	0.30	0.0118	6.0	0.2362	1.5	0.0591	626(1)	F626(1)	626ZZ	F626ZZ	2RS 2RU –
		19	0.7480	–	–	0.30	0.0118	6.0	0.2362	–	–	626(TTS)	–	–	–	– – TTS
		22	0.8661	–	–	0.30	0.0118	7.0	0.2756	–	–	636(1)	–	636ZZ	–	2RS 2RU –
7	0.2756	11	0.4331	12.2	0.4803	0.15	0.0059	2.5	0.0984	0.6	0.0236	MR117	MF117	MR117ZZS	MF117ZZS	– – TTS
		13	0.5118	14.2	0.5591	0.20	0.0079	3.0	0.1181	0.6	0.0236	MR137	MF137	–	–	– – –
		13	0.5118	14.6	0.5748	0.15	0.0059	–	–	–	–	–	–	MR137ZZ	MF137ZZ	– – TTS
		14	0.5512	16.0	0.6299	0.15	0.0059	3.5	0.1378	1.0	0.0394	687	F687	687ZZ	F687ZZ	2RS 2RU TTS
		17	0.6693	19.0	0.7480	0.30	0.0118	5.0	0.1969	1.2	0.0472	697(1)	F697(1)	697ZZ	F697ZZ	2RS 2RU –
		19	0.7480	22.0	0.8661	0.30	0.0118	6.0	0.2362	1.5	0.0591	607(1)	F607(1)	607ZZ	F607ZZ	2RS 2RU –
		19	0.7480	–	–	0.30	0.0118	6.0	0.2362	–	–	607(TTS)	–	–	–	– – TTS
		22	0.8661	25.0	0.9843	0.30	0.0118	7.0	0.2756	1.5	0.0591	627(1)	F627(1)	627ZZ	F627ZZ	2RS 2RU TTS
		26	1.0236	–	–	0.30	0.0118	9.0	0.3543	–	–	637(1)	–	637ZZ	–	2RS 2RU –
8	0.3150	12	0.4724	13.2	0.5197	0.15	0.0059	2.5	0.0984	0.6	0.0236	MR128	MF128	–	–	– – –
		12	0.4724	13.6	0.5354	0.10	0.0039	–	–	–	–	–	–	MR128ZZ	MF128ZZ	2RS 2RU TTS
		14	0.5512	15.6	0.6142	0.20	0.0079	3.5	0.1378	0.8	0.0315	MR148	MF148	–	–	– – –
		14	0.5512	15.6	0.6142	0.15	0.0059	–	–	–	–	–	–	MR148ZZ	MF148ZZ	2RS 2RU –
		16	0.6299	18.0	0.7087	0.20	0.0079	4.0	0.1575	1.0	0.0394	688	F688	688ZZ	F688ZZ	2RS 2RU TTS
		19	0.7480	22.0	0.8661	0.30	0.0118	6.0	0.2362	1.5	0.0591	698(1)	F698(1)	698ZZ	F698ZZ	2RS 2RU –
		22	0.8661	25.0	0.9843	0.30	0.0118	7.0	0.2756	1.5	0.0591	608(1)	F608(1)	608ZZ	F608ZZ	2RS 2RU TTS
		24	0.9449	–	–	0.30	0.0118	8.0	0.3150	–	–	628(1)	–	628ZZ	–	2RS 2RU –
		28	1.1024	–	–	0.30	0.0118	9.0	0.3543	–	–	638(1)	–	638ZZ	–	2RS 2RU –
9	0.3543	14	0.5512	–	–	0.10	0.0039	3.0	0.1181	–	–	679	–	679ZZS	–	– – TTS
		17	0.6693	19.0	0.7480	0.20	0.0079	4.0	0.1575	1.0	0.0394	689	F689	689ZZ	F689ZZ	2RS 2RU –
		20	0.7874	23.0	0.9055	0.30	0.0118	6.0	0.2362	1.5	0.0591	699(1)	F699(1)	699ZZ	F699ZZ	2RS 2RU –
		24	0.9449	27.0	1.0630	0.30	0.0118	7.0	0.2756	1.5	0.0591	609(1)	F609(1)	609ZZ	F609ZZ	2RS 2RU –
		26	1.0236	–	–	0.60(4)	0.0236(4)	8.0	0.3150	–	–	629(1)	–	629ZZ	–	2RS 2RU –
		30	1.1811	–	–	0.60	0.0236	10.0	0.3937	–	–	639(1)	–	639ZZ	–	2RS 2RU –

Width: B1		Flange Width:Bf1		Load Rating		Max. Speed		Cage Type	Ball Complement			Weight (Reference)			
				Cr(N)	Cor(N)	Grease	Oil		Qty.:Z	Size:Dw		Open	Flange Open	2 Shields	Flange 2 Shields
mm	inch	mm	inch	(N)		x1000min⁻¹			pcs.	mm	inch	g			
–	–	–	–	309	121	62	74	W	8	1.000	0.0394	0.26	0.33	–	–
2.5	0.0984	0.6	0.0236	218	91	63	75	W	9	0.800	0.0315	–	–	0.36	0.42
3.0	0.1181	0.6	0.0236	432	168	60	71	W	8	1.200	0.0472	0.50	0.58	0.58	0.65
–	–	–	–	432	168	60	71	W	8	1.200	0.0472	0.94	1.03	–	–
4.0	0.1575	0.8	0.0315	432	168	60	71	W	8	1.200	0.0472	–	–	1.23	1.38
4.0	0.1575	0.8	0.0315	716	283	54	64	J	8	1.588	0.0625	–	–	1.54	1.71
5.0	0.1969	1.0	0.0394	716	283	54	64	J,TW	8	1.588	0.0625	1.18	1.34	1.83	2.03
4.0	0.1575	1.0	0.0394	1 080	430	50	59	J	8	2.000	0.0787	2.13	2.47	2.28	2.62
5.0	0.1969	1.0	0.0394	1 330	507	48	56	J,TW	7	2.381	0.0937	3.09	3.52	3.36	3.79
5.0	0.1969	1.0	0.0394	1 730	670	44	52	J,TW	7	2.778	0.1094	4.30	4.71	4.53	4.94
6.0	0.2362	1.5	0.0591	2 340	889	38	45	J	6	3.500	0.1378	7.57	8.68	8.11	9.21
–	–	–	–	497	219	54	64	W	10	1.200	0.0472	0.58	0.66	–	–
3.0	0.1181	0.6	0.0236	497	218	55	64	W	10	1.200	0.0472	–	–	0.71	0.78
3.0	0.1181	–	–	373	172	55	65	W	11	1.000	0.0394	0.73	–	0.78	–
–	–	–	–	716	293	50	59	W,J	8	1.588	0.0625	1.24	1.35	–	–
4.0	0.1575	0.8	0.0315	716	293	50	59	W,J	8	1.588	0.0625	–	–	1.57	1.77
5.0	0.1969	1.1	0.0433	1 080	438	48	56	J,TW	8	2.000	0.0787	1.85	2.17	2.50	2.86
5.0	0.1969	1.2	0.0472	1 340	517	46	54	J	7	2.381	0.0937	3.52	3.98	3.82	4.28
5.0	0.1969	–	–	1 340	517	46	54	J	7	2.381	0.0937	4.46	–	4.76	–
6.0	0.2362	1.2	0.0472	2 260	838	42	49	J	6	3.500	0.1378	5.43	5.97	5.94	6.47
6.0	0.2362	1.5	0.0591	2 340	889	38	45	J,TW	6	3.500	0.1378	7.18	8.31	7.70	8.84
6.0	0.2362	–	–	2 240	912	37	44	J	7	3.175	0.1250	7.50	–	7.72	–
7.0	0.2756	–	–	3 300	1 370	33	39	J	7	3.969	0.1563	12.2	–	12.8	–
3.0	0.1181	0.6	0.0236	456	201	50	59	W	9	1.200	0.0472	0.61	0.70	0.75	0.84
–	–	–	–	541	276	45	53	W	12	1.200	0.0472	1.55	1.67	–	–
4.0	0.1575	0.8	0.0315	541	276	45	53	W	12	1.200	0.0472	–	–	2.00	2.25
5.0	0.1969	1.1	0.0433	1 180	511	44	52	J	9	2.000	0.0787	2.04	2.39	2.77	3.15
5.0	0.1969	1.2	0.0472	1 610	716	40	47	J,TW	9	2.381	0.0937	4.81	5.35	5.03	5.57
6.0	0.2362	1.5	0.0591	2 340	889	38	45	J,TW	6	3.500	0.1378	6.76	7.90	7.26	8.40
6.0	0.2362	–	–	2 240	912	37	44	J	7	3.175	0.1250	6.91	–	7.13	–
7.0	0.2756	1.5	0.0591	3 300	1 370	33	39	J,TW	7	3.969	0.1563	11.6	13.0	12.2	13.6
9.0	0.3543	–	–	4 580	1 970	28	33	J	7	4.762	0.1875	22.1	–	23.2	–
–	–	–	–	544	275	46	54	W	12	1.200	0.0472	0.71	0.80	–	–
3.5	0.1378	0.8	0.0315	544	275	46	54	W	12	1.200	0.0472	–	–	1.01	1.20
–	–	–	–	818	386	42	50	J	10	1.588	0.0625	1.80	2.01	–	–
4.0	0.1575	0.8	0.0315	818	386	42	50	J,TW	10	1.588	0.0625	–	–	2.00	2.22
5.0	0.1969	1.1	0.0433	1 260	590	40	47	J	10	2.000	0.0787	3.16	3.57	3.79	4.25
6.0	0.2362	1.5	0.0591	2 240	912	37	44	J	7	3.175	0.1250	6.21	7.34	6.72	7.85
7.0	0.2756	1.5	0.0591	3 300	1 370	33	39	J,TW	7	3.969	0.1563	11.0	12.3	11.6	12.9
8.0	0.3150	–	–	3 330	1 410	31	37	J	7	3.969	0.1563	16.5	–	17.2	–
9.0	0.3543	–	–	4 580	1 970	28	33	J	7	4.762	0.1875	27.2	–	28.4	–
4.5	0.1772	–	–	919	467	41	48	W	12	1.588	0.0625	1.29	–	1.84	–
5.0	0.1969	1.1	0.0433	1 330	664	37	44	J	11	2.000	0.0787	3.43	3.86	4.12	4.58
6.0	0.2362	1.5	0.0591	2 470	1 070	35	42	J	8	3.175	0.1250	7.09	8.27	7.59	8.77
7.0	0.2756	1.5	0.0591	3 350	1 430	30	36	J	7	3.969	0.1563	13.3	14.7	14.0	15.5
8.0	0.3150	–	–	4 580	1 970	28	33	J	7	4.762	0.1875	17.8	–	18.9	–
10.0	0.3937	–	–	5 110	2 390	25	30	RJ	8	4.762	0.1875	33.3	–	34.8	–

(1) Open type bearings have shield/seal grooves. (2) Single shield or single seal types are also available; suffix Z, RS, RU or TS.
(3) Prefix S or suffix H is added for stainless material types. Load ratings of stainless material types are calculated by Cr×0.85 and Cor×0.80 of SUJ2 material types.
(4) Chamfer dimension (4) is not based on JIS B 1521.
(5) Applicable only for open, single Z, ZZ, single RU and 2RU types in inner ring rotating conditions. Max. speeds for the contact rubber seal(s) types will be around 50-60% of above values.