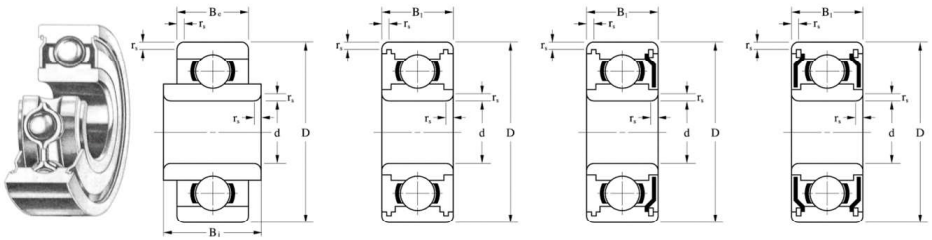
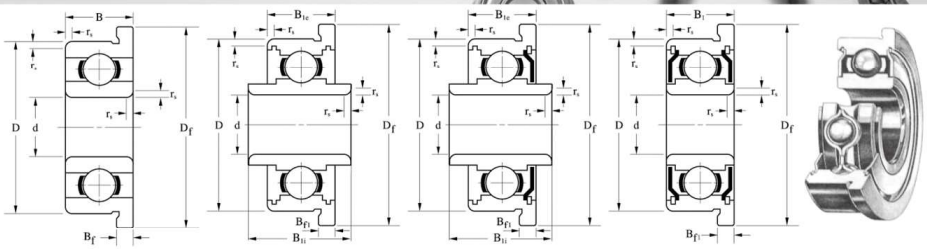
Inch series



Bore Diameter: d		Outer Diameter: D		Flange Diameter: Df		Chamfer r(min)		Open Bearings: IR Width: Bi		OR Width: Be		Flange Width: Bf		Bearing Reference: Open	Flange Open	2 Shields	Flange 2 Shields
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch				
1.016	0.0400	3.175	0.1250	4.343	0.1710	0.10	0.0039	1.191	0.0469	1.191	0.0469	0.330	0.0130	R09	FR09	–	–
1.191	0.0469	3.967	0.1562	5.156	0.2030	0.10	0.0039	1.588	0.0625	1.588	0.0625	0.330	0.0130	R0	FR0	R0ZZ	FR0ZZ
		3.967	0.1562	5.156	0.2030	0.10	0.0039	2.380	0.0937	1.588	0.0625	0.330	0.0130	RW0	FRW0	RW0ZZ	FRW0ZZ
1.397	0.0550	4.762	0.1875	5.944	0.2340	0.10	0.0039	1.984	0.0781	1.984	0.0781	0.584	0.0230	R1	FR1	R1ZZ	FR1ZZ
		4.762	0.1875	5.944	0.2340	0.10	0.0039	2.779	0.1094	1.984	0.0781	0.584	0.0230	RW1	FRW1	RW1ZZ	FRW1ZZ
1.984	0.0781	6.350	0.2500	7.518	0.2960	0.10	0.0039	2.380	0.0937	2.380	0.0937	0.584	0.0230	R1-4	FR1-4	R1-4ZZ	FR1-4ZZ
		6.350	0.2500	7.518	0.2960	0.10	0.0039	3.175	0.1250	2.380	0.0937	0.584	0.0230	RW1-4	FRW1-4	RW1-4ZZ	FRW1-4ZZ
2.380	0.0937	4.762	0.1875	5.944	0.2340	0.10	0.0039	1.588	0.0625	1.588	0.0625	0.457	0.0180	R133	FR133	–	–
		4.762	0.1875	5.944	0.2340	0.10	0.0039	2.380	0.0937	1.588	0.0625	0.457	0.0180	RW133	FRW133	–	–
		4.762	0.1875	5.944	0.2340	0.10	0.0039	–	–	–	–	–	–	–	–	R133ZZS	FR133ZZS
		4.762	0.1875	5.944	0.2340	0.10	0.0039	–	–	–	–	–	–	–	–	RW133ZZS	FRW133ZZS
		7.938	0.3125	9.119	0.3590	0.15	0.0059	2.779	0.1094	2.779	0.1094	0.584	0.0230	R1-5	FR1-5	R1-5ZZ	FR1-5ZZ
		7.938	0.3125	9.119	0.3590	0.15	0.0059	3.571	0.1406	2.779	0.1094	0.584	0.0230	RW1-5	FRW1-5	RW1-5ZZ	FRW1-5ZZ
3.175	0.1250	6.350	0.2500	7.518	0.2960	0.10	0.0039	2.380	0.0937	2.380	0.0937	0.584	0.0230	R144J	FR144J	R144JZZS	FR144JZZS
		6.350	0.2500	7.518	0.2960	0.10	0.0039	2.380	0.0937	2.380	0.0937	0.584	0.0230	R144	FR144	R144ZZ	FR144ZZ
		6.350	0.2500	7.518	0.2960	0.10	0.0039	3.175	0.1250	2.380	0.0937	0.584	0.0230	RW144	FRW144	RW144ZZ	FRW144ZZ
		7.938	0.3125	9.119	0.3590	0.10	0.0039	2.779	0.1094	2.779	0.1094	0.584	0.0230	R2-5	FR2-5	R2-5ZZ	FR2-5ZZ
		7.938	0.3125	9.119	0.3590	0.10	0.0039	3.571	0.1406	2.779	0.1094	0.584	0.0230	RW2-5	FRW2-5	RW2-5ZZ	FRW2-5ZZ
		9.525	0.3750	10.719	0.4220	0.15	0.0059	2.779	0.1094	2.779	0.1094	0.584	0.0230	R2-6	FR2-6	R2-6ZZ	FR2-6ZZ
		9.525	0.3750	10.719	0.4220	0.15	0.0059	3.571	0.1406	2.779	0.1094	0.584	0.0230	RW2-6	FRW2-6	RW2-6ZZ	FRW2-6ZZ
		9.525	0.3750	11.176	0.4400	0.30	0.0118	3.967	0.1562	3.967	0.1562	0.762	0.0300	R2(1)	FR2(1)	R2ZZ	FR2ZZ
		9.525	0.3750	11.176	0.4400	0.30	0.0118	4.762	0.1875	3.967	0.1562	0.762	0.0300	RW2(1)	FRW2(1)	RW2ZZ	FRW2ZZ
		12.700	0.5000	–	–	0.30	0.0118	4.366	0.1719	4.366	0.1719	–	–	R2A(1)	–	R2AZZ	–
3.967	0.1562	7.938	0.3125	9.119	0.3590	0.10	0.0039	2.779	0.1094	2.779	0.1094	0.584	0.0230	R155	FR155	R155ZZS	FR155ZZS
		7.938	0.3125	9.119	0.3590	0.10	0.0039	3.571	0.1406	2.779	0.1094	0.584	0.0230	RW155	FRW155	RW155ZZS	FRW155ZZS
4.762	0.1875	7.938	0.3125	9.119	0.3590	0.10	0.0039	2.779	0.1094	2.779	0.1094	0.584	0.0230	R156	FR156	R156ZZS	FR156ZZS
		7.938	0.3125	9.119	0.3590	0.10	0.0039	3.571	0.1406	2.779	0.1094	0.584	0.0230	RW156	FRW156	RW156ZZS	FRW156ZZS
		9.525	0.3750	10.719	0.4220	0.10	0.0039	3.175	0.1250	3.175	0.1250	0.584	0.0230	R166(1)	FR166	R166ZZ	FR166ZZ
		9.525	0.3750	10.719	0.4220	0.10	0.0039	3.967	0.1562	3.175	0.1250	0.584	0.0230	RW166(1)	FRW166	RW166ZZ	FRW166ZZ
		12.700	0.5000	14.351	0.5650	0.30	0.0118	4.978	0.1960	4.978	0.1960	1.067	0.0420	–	FR3	–	–
		12.700	0.5000	14.351	0.5650	0.30	0.0118	3.967	0.1562	3.967	0.1562	–	–	R3	–	R3ZZ	FR3ZZ
		12.700	0.5000	14.351	0.5650	0.30	0.0118	5.771	0.2272	4.978	0.1960	1.067	0.0420	–	FRW3	–	–
		12.700	0.5000	14.351	0.5650	0.30	0.0118	4.762	0.1875	3.967	0.1562	–	–	RW3	–	RW3ZZ	FRW3ZZ
		15.875	0.6250	–	–	0.30	0.0118	4.978	0.1960	4.978	0.1960	–	–	R3A(1)	–	R3AZZ	–
6.350	0.2500	9.525	0.3750	10.719	0.4220	0.10	0.0039	3.175	0.1250	3.175	0.1250	0.584	0.0230	R168(1)	FR168	R168ZZS	FR168ZZS
		9.525	0.3750	10.719	0.4220	0.10	0.0039	3.967	0.1562	3.175	0.1250	0.584	0.0230	RW168(1)	FRW168	RW168ZZS	FRW168ZZS
		12.700	0.5000	13.894	0.5470	0.15	0.0059	3.175	0.1250	3.175	0.1250	0.584	0.0230	R188	FR188	R188ZZ	FR188ZZ
		12.700	0.5000	13.894	0.5470	0.15	0.0059	3.967	0.1562	3.175	0.1250	0.584	0.0230	RW188	FRW188	RW188ZZ	FRW188ZZ
		15.875	0.6250	17.526	0.6900	0.30	0.0118	4.978	0.1960	4.978	0.1960	1.067	0.0420	R4(1)	FR4(1)	R4ZZ	FR4ZZ
		15.875	0.6250	17.526	0.6900	0.30	0.0118	5.771	0.2272	4.978	0.1960	1.067	0.0420	RW4(1)	FRW4(1)	RW4ZZ	FRW4ZZ
		19.050	0.7500	–	–	0.40	0.0157	5.558	0.2188	5.558	0.2188	–	–	R4A	–	R4AZZ	–
7.938	0.3125	12.700	0.5000	13.894	0.5470	0.15	0.0059	3.967	0.1562	3.967	0.1562	0.787	0.0310	R1810(1)	FR1810(1)	R1810ZZS	FR1810ZZS
		12.700	0.5000	13.894	0.5470	0.15	0.0059	4.762	0.1875	3.967	0.1562	0.787	0.0310	RW1810(1)	FRW1810(1)	RW1810ZZS	FRW1810ZZS
9.525	0.3750	22.225	0.8750	24.613	0.9690	0.40	0.0157	5.558	0.2188	5.558	0.2188	1.575	0.0620	R6	FR6	R6ZZ	FR6ZZ
12.700	0.5000	28.575	1.1250	31.120	1.2252	0.40	0.0157	6.350	0.2500	6.350	0.2500	1.575	0.0620	R8	FR8	R8ZZ	FR8ZZ
15.875	0.6250	34.925	1.3750	37.846	1.4900	0.80	0.0315	7.142	0.2812	7.142	0.2812	–	–	R10	–	R10ZZ	FR10ZZ
19.050	0.7500	41.275	1.6250	–	–	0.80	0.0315	7.938	0.3125	7.938	0.3125	–	–	R12	–	–	–
		41.275	1.6250	–	–	0.80	0.0315	–	–	–	–	–	–	–	–	R12ZZ	–

(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 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) 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.



Seal, Shield Bearings: 2 Seals			IR Width: B1i		OR Width: B1e		Flange Width: Bf1		Load Rating: Cr	Cor	Max. Speed: Grease	Oil	Cage Type	Ball Complement: Qty.:Z	Size:Dw		Weight (Reference): Open	Flange Open	2 Shields	Flange 2 Shields
2RS	2RU	TTS	mm	inch	mm	inch	mm	inch	(N)		x1000min⁻¹			pcs.	mm	inch	g			
–	–	–	–	–	–	–	–	–	106	28	115	136	W	6	0.635	0.0250	0.04	0.05	–	–
–	–	–	2.380	0.0937	2.380	0.0937	0.787	0.0310	112	33	105	124	W	7	0.600	0.0236	0.09	0.11	0.13	0.18
–	–	–	3.175	0.1250	2.380	0.0937	0.787	0.0310	112	33	105	124	W	7	0.600	0.0236	0.11	0.13	0.14	0.19
–	–	–	2.779	0.1094	2.779	0.1094	0.787	0.0310	232	66	97	115	W	6	1.000	0.0394	0.15	0.20	0.20	0.26
–	–	–	3.571	0.1406	2.779	0.1094	0.787	0.0310	232	66	97	115	W	6	1.000	0.0394	0.17	0.21	0.22	0.28
–	–	TTS	3.571	0.1406	3.571	0.1406	0.787	0.0310	284	95	77	91	W	7	1.000	0.0394	0.35	0.40	0.50	0.58
–	–	–	4.336	0.1707	3.571	0.1406	0.787	0.0310	284	95	77	91	W	7	1.000	0.0394	0.40	0.46	0.56	0.63
–	–	–	–	–	–	–	–	–	189	60	90	106	W	7	0.800	0.0315	0.10	0.13	–	–
–	–	–	–	–	–	–	–	–	189	60	90	106	W	7	0.800	0.0315	0.11	0.14	–	–
–	–	TTS	2.380	0.0937	2.380	0.0937	0.787	0.0310	144	52	92	109	W	10	0.600	0.0236	–	–	0.16	0.21
–	–	TTS	3.175	0.1250	2.380	0.0937	0.787	0.0310	144	52	92	109	W	10	0.600	0.0236	–	–	0.17	0.23
–	–	TTS	3.571	0.1406	3.571	0.1406	0.787	0.0310	551	175	72	85	W	6	1.588	0.0625	0.61	0.68	0.76	0.85
–	–	–	4.366	0.1719	3.571	0.1406	0.787	0.0310	551	175	72	85	W	6	1.588	0.0625	0.67	0.74	0.81	0.90
–	–	TTS	2.779	0.1094	2.779	0.1094	0.787	0.0310	310	109	77	91	J	8	1.000	0.0394	0.26	0.32	0.30	0.37
–	–	TTS	2.779	0.1094	2.779	0.1094	0.787	0.0310	284	95	77	91	W	7	1.000	0.0394	0.26	0.31	0.28	0.36
–	–	TTS	3.571	0.1406	2.779	0.1094	0.787	0.0310	284	95	77	91	W	7	1.000	0.0394	0.28	0.34	0.31	0.38
–	–	TTS	3.571	0.1406	3.571	0.1406	0.787	0.0310	559	179	70	82	W,J	6	1.588	0.0625	0.54	0.60	0.66	0.75
–	–	–	4.366	0.1719	3.571	0.1406	0.787	0.0310	559	179	70	82	W,J	6	1.588	0.0625	0.58	0.64	0.70	0.79
–	–	TTS	3.571	0.1406	3.571	0.1406	0.787	0.0310	641	226	63	75	J	7	1.588	0.0625	0.95	1.03	1.15	1.26
–	–	TTS	4.366	0.1719	3.571	0.1406	0.787	0.0310	641	226	63	75	J	7	1.588	0.0625	1.03	1.07	1.20	1.31
2RS	2RU	TTS	3.967	0.1562	3.967	0.1562	0.762	0.0300	633	218	66	78	J	7	1.588	0.0625	1.32	1.49	1.39	1.56
2RS	2RU	–	4.762	0.1875	3.967	0.1562	0.762	0.0300	633	218	66	78	J	7	1.588	0.0625	1.38	1.55	1.45	1.62
–	–	–	4.366	0.1719	4.366	0.1719	–	–	641	226	63	75	J	7	1.588	0.0625	3.12	–	3.20	–
–	–	TTS	3.175	0.1250	3.175	0.1250	0.914	0.0360	360	149	64	76	W	10	1.000	0.0394	0.52	0.59	0.59	0.69
–	–	TTS	3.967	0.1562	3.175	0.1250	0.914	0.0360	360	149	64	76	W	10	1.000	0.0394	0.55	0.62	0.66	0.76
–	–	TTS	3.175	0.1250	3.175	0.1250	0.914	0.0360	360	149	64	76	W	10	1.000	0.0394	0.40	0.47	0.45	0.56
–	–	TTS	3.967	0.1562	3.175	0.1250	0.914	0.0360	360	149	64	76	W	10	1.000	0.0394	0.42	0.48	0.49	0.59
–	–	TTS	3.175	0.1250	3.175	0.1250	0.787	0.0310	711	270	59	70	J	8	1.588	0.0625	0.74	0.86	0.79	0.90
–	–	TTS	3.967	0.1562	3.175	0.1250	0.787	0.0310	711	270	59	70	J	8	1.588	0.0625	0.79	0.92	0.85	0.95
–	–	–	–	–	–	–	–	–	1 300	485	51	60	J	7	2.381	0.0937	–	2.93	–	–
2RS	2RU	TTS	4.978	0.1960	4.978	0.1960	1.067	0.0420	1 300	485	51	60	J	7	2.381	0.0937	2.14	–	2.61	2.91
–	–	–	–	–	–	–	–	–	1 300	485	51	60	J	7	2.381	0.0937	–	3.21	–	–
2RS	2RU	–	5.771	0.2272	4.978	0.1960	1.067	0.0420	1 300	485	51	60	J	7	2.381	0.0937	2.27	–	2.72	3.01
–	–	–	4.978	0.1960	4.978	0.1960	–	–	1 480	617	42	50	J	8	2.381	0.0937	4.42	–	4.74	–
–	–	TTS	3.175	0.1250	3.175	0.1250	0.914	0.0360	373	172	55	65	W	11	1.000	0.0394	0.52	0.64	0.57	0.69
–	–	TTS	3.967	0.1562	3.175	0.1250	0.914	0.0360	373	172	55	65	W	11	1.000	0.0394	0.56	0.69	0.61	0.74
–	–	TTS	4.762	0.1875	4.762	0.1875	1.143	0.0450	1 080	438	48	56	J	8	2.000	0.0787	1.47	1.59	2.03	2.24
–	–	TTS	5.558	0.2188	4.762	0.1875	1.143	0.0450	1 080	438	48	56	J	8	2.000	0.0787	1.59	1.70	2.11	2.32
2RS	2RU	TTS	4.978	0.1960	4.978	0.1960	1.067	0.0420	1 480	617	42	50	J	8	2.381	0.0937	3.87	4.26	4.19	4.58
2RS	2RU	–	5.771	0.2272	4.978	0.1960	1.067	0.0420	1 480	617	42	50	J	8	2.381	0.0937	4.01	4.40	4.34	4.73
2RS	2RU	TTS	7.142	0.2812	7.142	0.2812	–	–	2 340	889	38	45	J	6	3.500	0.1378	7.43	–	8.96	–
–	–	TTS	3.967	0.1562	3.967	0.1562	0.787	0.0310	541	276	45	53	W	12	1.200	0.0472	1.41	1.56	1.50	1.65
–	–	TTS	4.762	0.1875	3.967	0.1562	0.787	0.0310	541	276	45	53	W	12	1.200	0.0472	1.49	1.64	1.58	1.72
2RS	2RU	TTS	7.142	0.2812	7.142	0.2812	1.575	0.0620	3 330	1 410	31	37	J	7	3.969	0.1563	8.74	9.85	10.7	11.8
2RS	2RU	TTS	7.938	0.3125	7.938	0.3125	1.575	0.0620	5 110	2 390	25	30	J	8	4.762	0.1875	17.2	18.7	20.5	21.8
2RS	2RU	–	8.733	0.3438	8.733	0.3438	1.745	0.0687	6 000	3 270	20	24	RJ	10	4.762	0.1875	29.8	–	35.8	38.5
–	–	–	–	–	–	–	–	–	7 920	4 450	17	21	RJ	10	5.556	0.2187	46.4	–	–	–
2RS	2RU	–	11.113	0.4375	11.113	0.4375	–	–	9 380	5 060	17	20	RJ,TW	9	6.350	0.2500	–	–	60.4	–