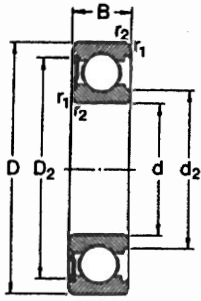


Deep groove ball bearings
single row, with seal(s)
d 15-25 mm
0.5906-0.9843 in

HANDOUT 19
BEARING DATA



With one RS1 seal

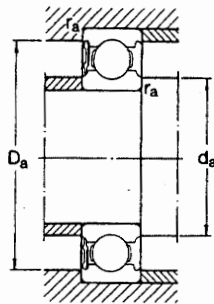


With two RS1 seals

Principal dimensions			Basic load ratings		Fatigue load limit P_u	Speed rating	Mass	Designation	
d	D	B	C	C_0				Bearings with one seal	two seals
mm in			N lbf		N lbf	r/min	kg lb	-	-
15 0.5906 (cont.)	35	11	7 800	3 750	160	13 000	0.045	6202-RS1	6202-2RS1
	1.3780	0.4331	1 750	843	36.0		0.099		
	35	14	7 800	3 750	160	13 000	0.054	-	62202-2RS1
	1.3780	0.5512	1 750	843	36.0		0.12		
	42	13	11 400	5 400	228	12 000	0.082	6302-RS1	6302-2RS1
	1.6535	0.5118	2 560	1 210	51.3		0.18		
	42	17	11 400	5 400	228	12 000	0.11	-	62302-2RS1
	1.6535	0.6693	2 560	1 210	51.3		0.24		
17 0.6693	26	5	1 680	930	39	16 000	0.0082	61803-RS1	61803-2RS1
	1.0236	0.1969	378	209	8.77		0.018		
	30	7	4 360	2 320	98	14 000	0.018	61903-RS1	61903-2RS1
	1.1811	0.2756	980	522	22.0		0.040		
	35	10	6 050	3 250	137	13 000	0.039	6003-RS1	6003-2RS1
	1.3780	0.3937	1 360	731	30.8		0.086		
	35	14	6 050	3 250	137	13 000	0.052	-	63003-2RS1
	1.3780	0.5512	1 360	731	30.8		0.11		
	40	12	9 560	4 750	200	12 000	0.065	6203-RS1	6203-2RS1
	1.5748	0.4724	2 150	1 070	45.0		0.14		
40	16	9 560	4 750	200	12 000	0.083	-	62203-2RS1	
1.5748	0.6299	2 150	1 070	45.0		0.18			
47	14	13 500	6 550	275	11 000	0.12	6303-RS1	6303-2RS1	
1.8504	0.5512	3 040	1 470	61.8		0.26			
47	19	13 500	6 550	275	11 000	0.15	-	62303-2RS1	
1.8504	0.7480	3 040	1 470	61.8		0.33			
20 0.7874	32	7	2 700	1 500	63	13 000	0.018	61804-RS1	61804-2RS1
	1.2598	0.2756	607	337	14.2		0.040		
	37	9	6 370	3 650	156	12 000	0.038	61904-RS1	61904-2RS1
	1.4567	0.3543	1 430	821	35.1		0.084		
	42	12	9 360	5 000	212	11 000	0.069	6004-RS1	6004-2RS1
	1.6535	0.4724	2 100	1 120	47.7		0.15		
	42	16	9 360	5 000	212	11 000	0.086	-	63004-2RS1
	1.6535	0.6299	2 100	1 120	47.7		0.19		
	47	14	12 700	6 550	280	10 000	0.11	6204-RS1	6204-2RS1
	1.8504	0.5512	2 860	1 470	62.9		0.24		
47	18	12 700	6 550	280	10 000	0.13	-	62204-2RS1	
1.8504	0.7087	2 860	1 470	62.9		0.29			
52	15	15 900	7 800	335	9 500	0.14	6304-RS1	6304-2RS1	
2.0472	0.5906	3 570	1 750	75.3		0.31			
52	21	15 900	7 800	335	9 500	0.20	-	62304-2RS1	
2.0472	0.8268	3 570	1 750	75.3		0.44			
25 0.9843	37	7	4 360	2 600	125	11 000	0.022	61805-RS1	61805-2RS1
	1.4567	0.2756	980	585	28.1		0.049		
	42	9	6 630	4 000	176	10 000	0.045	61905-RS1	61905-2RS1
	1.6535	0.3543	1 490	899	39.6		0.099		
	47	12	11 200	6 550	275	9 500	0.080	6005-RS1	6005-2RS1
	1.8504	0.4724	2 520	1 470	61.8		0.18		
	47	16	11 200	6 550	275	9 500	0.10	-	63005-2RS1
	1.8504	0.6299	2 520	1 470	61.8		0.22		
	52	15	14 000	7 800	335	8 500	0.13	6205-RS1	6205-2RS1
	2.0472	0.5906	3 150	1 750	75.3		0.29		
52	18	14 000	7 800	335	8 500	0.15	-	62205-2RS1	
2.0472	0.7087	3 150	1 750	75.3		0.33			
62	17	22 500	11 600	490	7 500	0.23	6305-RS1	6305-2RS1	
2.4409	0.6693	5 060	2 610	110		0.51			
62	24	22 500	11 600	490	7 500	0.32	-	62305-2RS1	
2.4409	0.9449	5 060	2 610	110		0.71			

BI
FRONT
HUB





Dimensions				Abutment and fillet dimensions			
d	d ₂ ≈	D ₂	r _{1,2} min	d _a min	d _a max	D _a max	r _a max
mm in				mm in			
15 0.5906 (cont.)	19.2	30.4	0.6	19	19	31	0.6
	0.756	1.197	0.024	0.748	0.748	1.220	0.024
	19.2	30.4	0.6	19	19	31	0.6
	0.756	1.197	0.024	0.748	0.748	1.220	0.024
	21	36.3	1	20	20.5	37	1
	0.827	1.429	0.039	0.787	0.807	1.457	0.039
	21	36.3	1	20	20.5	37	1
	0.827	1.429	0.039	0.787	0.807	1.457	0.039
17 0.6693	19.3	24.1	0.3	19	19	24.5	0.3
	0.760	0.949	0.012	0.748	0.748	0.965	0.012
	19.4	27.8	0.3	19	19	28	0.3
	0.764	1.094	0.012	0.748	0.748	1.102	0.012
	20.4	31.2	0.3	19	20	33	0.3
	0.803	1.228	0.012	0.748	0.787	1.299	0.012
	20.4	31.2	0.3	19	20	33	0.3
	0.803	1.228	0.012	0.748	0.787	1.299	0.012
	21.6	35	0.6	21	21	36	0.6
	0.850	1.378	0.024	0.827	0.827	1.417	0.024
	21.6	35	0.6	21	21	36	0.6
	0.850	1.378	0.024	0.827	0.827	1.417	0.024
	23.9	39.6	1	22	23.5	42	1
	0.941	1.559	0.039	0.866	0.925	1.654	0.039
	23.9	39.6	1	22	23.5	42	1
	0.941	1.559	0.039	0.866	0.925	1.654	0.039
20 0.7874	22.6	29.5	0.3	22	22	30	0.3
	0.890	1.161	0.012	0.866	0.866	1.181	0.012
	24.2	32.8	0.3	22	24	35	0.3
	0.953	1.291	0.012	0.866	0.945	1.378	0.012
	24.6	37.2	0.6	24	24.5	38	0.6
	0.969	1.465	0.024	0.945	0.965	1.496	0.024
	24.6	37.2	0.6	24	24.5	38	0.6
	0.969	1.465	0.024	0.945	0.965	1.496	0.024
	26	40.6	1	25	25.5	42	1
	1.024	1.598	0.039	0.984	1.004	1.654	0.039
	26	40.6	1	25	25.5	42	1
	1.024	1.598	0.039	0.984	1.004	1.654	0.039
	27.1	44.8	1.1	26.5	27	45.5	1
	1.067	1.764	0.043	1.043	1.063	1.791	0.039
	27.1	44.8	1.1	26.5	27	45.5	1
	1.067	1.764	0.043	1.043	1.063	1.791	0.039
25 0.9843	27.4	34.3	0.3	27	27	35	0.3
	1.079	1.350	0.012	1.063	1.063	1.378	0.012
	29.2	37.8	0.3	27	29	40	0.3
	1.150	1.488	0.012	1.063	1.142	1.575	0.012
	29.4	42.2	0.6	29	29	43	0.6
	1.157	1.661	0.024	1.142	1.142	1.693	0.024
	29.4	42.2	0.6	29	29	43	0.6
	1.157	1.661	0.024	1.142	1.142	1.693	0.024
	31.4	46.3	1	30	31	47	1
	1.236	1.823	0.039	1.181	1.220	1.850	0.039
	31.4	46.3	1	30	31	47	1
	1.236	1.823	0.039	1.181	1.220	1.850	0.039
	33.9	52.7	1.1	31.5	33.5	55.5	1
	1.335	2.075	0.043	1.240	1.319	2.185	0.039
	33.9	52.7	1.1	31.5	33.5	55.5	1
	1.335	2.075	0.043	1.240	1.319	2.185	0.039



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