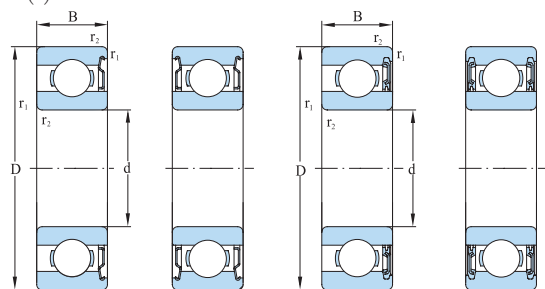


Deep groove ball bearing

with shield(s) or seal(s)

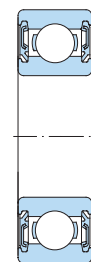


Z With one shield 2Z With two shields RZ With one seal 2RZ With two seals

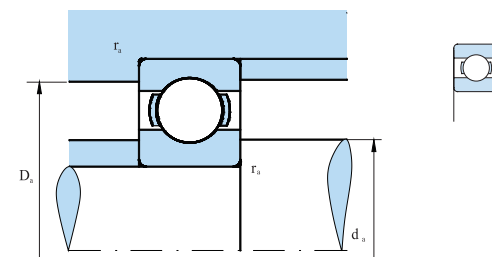
Designations						Boundary dimensions				Basic load ratings	
						d	D	B	$r_{1,2min}$	Cr	Cor
-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	mm				kN	
625-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	5	16	5	0.3	1.46	0.56
635-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		19	6	0.3	2.24	0.863
626-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	6	19	6	0.3	2.23	0.895
636-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		22	7	0.3	3.3	1.35
607-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	7	19	6	0.3	2.24	0.895
627-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		22	7	0.3	3.28	1.36
637-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	8	26	9	0.3	3.34	1.35
608-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		22	7	0.3	3.28	1.36
628-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	9	24	8	0.3	3.32	1.43
638-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		28	9	0.3	3.53	1.94
609-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	10	24	7	0.3	3.32	1.43
629-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		26	8	0.3	4.55	1.96
639-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	11	30	10	0.6	5.1	2.23
61800-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		19	5	0.3	1.83	0.924
61900-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	12	22	6	0.3	1.95	0.75
6000-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		26	8	0.3	4.59	1.97
6200-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	13	30	9	0.6	5.1	2.39
6300-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		35	11	0.6	7.66	3.47
61801-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	14	21	5	0.3	1.91	1.04
61901-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		24	6	0.3	2.25	0.98
6001-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	15	28	8	0.3	5.1	2.39
6201-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		32	10	0.6	6.76	3.05
6301-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	16	37	12	1	8.58	3.92
61802-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		24	5	0.3	2.08	1.26
61902-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	17	28	7	0.3	4.33	2.25
6002-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		32	9	0.3	5.62	2.84
6202-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	18	35	11	0.6	7.66	3.72
6302-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		42	13	1	11.4	5.4
61803-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	19	26	5	0.3	2.22	1.46
61903-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		30	7	0.3	4.6	2.55
6003-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	20	35	10	0.3	6.5	3.36
6203-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		40	12	0.6	10.3	4.79



RS1
With one seal



2RS1
With two seals



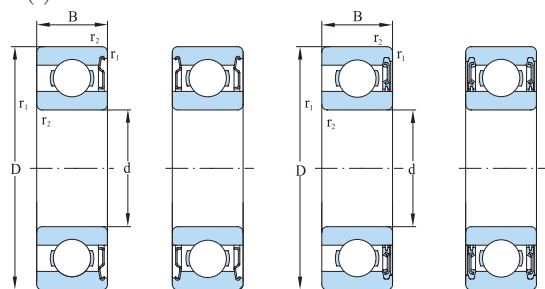
Limiting speeds			Abutment and fillet dimensions			Mass
Grease		Oil	d _a min	D _a max	r _a max	
2Z	2RZ		2RS1	mm		
r/min						
43000		50000	7	14	0.3	0.005
36000		43000	7	17	0.3	0.009
36000	22000	43000	8	17	0.3	0.0084
30000	20000	37000	8.6	19.4	0.3	0.013
43000	22000	50000	9	17	0.3	0.0078
32000	20000	38000	9	20	0.3	0.0126
27000	18000	33000	9.6	23.4	0.3	0.024
36000	20000	43000	10	20	0.3	0.0119
31000	18000	36000	9.3	21	0.3	0.0172
26000	16000	31000	10.6	25.4	0.3	0.027
32000	19000	38000	11	22	0.3	0.0148
28000	18000	34000	11	24	0.3	0.0193
23000	16000	29000	12.6	25.8	0.5	0.034
36000	20000	43000	12	17.5	0.3	0.0055
34000	19000	40000	12	20	0.3	0.01
30000	19000	36000	12	24	0.3	0.0197
24000	17000	30000	14	26	0.6	0.0317
20000	15000	26000	14	31	0.6	0.0548
32000	19000	38000	14	19	0.3	0.0063
30000	18000	36000	14	22	0.3	0.011
26000	17000	32000	14	26	0.3	0.0215
22000	15000	28000	16	28	0.6	0.0364
19000	14000	24000	17	32	1	0.0629
28000	17000	34000	17	22.5	0.3	0.0074
24000	16000	30000	17	26	0.3	0.0155
22000	14000	28000	17	30	0.3	0.0307
19000	13000	24000	19	31	0.6	0.0451
17000	12000	20000	20	37	1	0.0826
24000	16000	30000	19	24	0.3	0.0082
22000	14000	28000	19	28	0.3	0.0177
19000	13000	24000	19	33	0.3	0.0392
17000	12000	20000	21	36	0.6	0.0649



Harbin Bearing
Group Corporation

Deep groove ball bearing

with shield(s) or seal(s)

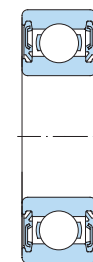


Z With one shield 2Z With two shields RZ With one seal 2RZ With two seals

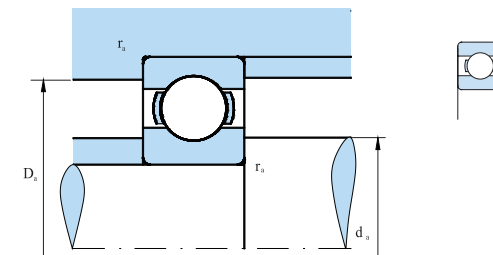
Designations						Boundary dimensions				Basic load ratings	
						d	D	B	r _{1,2} min	Cr	Cor
-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	mm				kN	
6303-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	17	47	14	1	13.5	6.55
61804-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		32	7	0.3	3.48	2.23
61904-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		37	9	0.3	6.38	3.65
6004-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		42	12	0.6	9.44	5.03
6204-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		47	14	1	12.99	6.65
6304-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	20	52	15	1.1	16	7.88
60/22-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		44	12	0.6	9.4	5.05
62/22-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		50	14	1	12.9	6.8
63/22-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		56	16	1.1	18.5	9.25
61805-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		37	7	0.3	3.84	2.8
61905-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	25	42	9	0.3	7.32	4.56
6005-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		47	12	0.6	10.1	5.85
6205-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		52	15	1	14	7.87
6305-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		62	17	1.1	22.5	11.6
60/28-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		52	12	0.6	10.7	6.63
62/28-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	28	58	16	1	16.6	9.54
63/28-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		68	18	1.1	25	12.1
61806-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		42	7	0.3	4.15	3.32
61906-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	30	47	9	0.3	8.05	5.37
6006-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		55	13	1	13.3	8.36
6206-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		62	16	1	19.5	11.3
6306-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		72	19	1.1	26.7	14.9
60/32-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		58	13	1	13.3	8.39
62/32-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	32	65	17	1	21.2	12.5
63/32-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		75	20	1.1	29.9	17
61807-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		47	7	0.3	4.29	3.6
61907-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	35	55	10	0.6	9.54	6.83
6007-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		62	14	1	16	10.3
6207-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		72	17	1.1	25.6	15.5
6307-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		80	21	1.5	33.4	19.2
61808-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		52	7	0.3	4.52	4.1
61908-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	40	62	12	0.6	12.2	8.9



RS1
With one seal



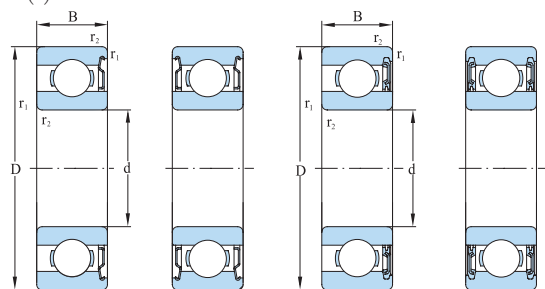
2RS1
With two seals



Limiting speeds			Abutment and fillet dimensions			Mass
Grease		Oil	d _{min}	D _{max}	r _{max}	
2Z	2RZ	2RS1	mm			kg
r/min						
16000	11000	19000	22	42	1	0.116
19000	13000	24000	22	30	0.3	0.0178
18000	12000	22000	22	35	0.3	0.0377
17000	11000	20000	24	38	0.6	0.0693
15000	10000	18000	25	42	1	0.103
13000	9500	16000	26.5	45.5	1	0.146
17000	10000	20000	26	40	0.6	0.074
14000	9700	16000	27	45	1	0.117
13000	9200	16000	28.5	49.5	1	0.178
17000	11000	20000	27	35	0.3	0.022
16000	10000	19000	27	40	0.3	0.0434
15000	9500	18000	29	43	0.6	0.0804
12000	8500	15000	30	47	1	0.128
11000	7500	14000	31.5	55.5	1	0.227
14000	8400	16000	32	48	0.6	0.101
12000	8100	14000	33	53	1	0.174
10000	7400	13000	34.5	61.5	1	0.293
15000	9500	18000	32	40	0.3	0.026
14000	8500	17000	32	45	0.3	0.0488
12000	8000	15000	35	50	1	0.117
10000	7500	13000	35	57	1	0.203
9000	6300	11000	36.5	65.5	1	0.356
12000	7200	14000	37	53	1	0.129
10000	7100	12000	37	60	1	0.231
9000	6500	11000	38.5	68.5	1	0.392
13000	8000	16000	37	45	0.3	0.03
11000	7500	14000	39	51	0.6	0.0776
10000	7000	13000	40	57	1	0.152
9000	6300	11000	41.5	65.5	1	0.286
8500	6000	10000	43	72	1.5	0.456
11000	7500	14000	42	50	0.3	0.033
10000	6700	13000	44	58	0.6	0.114

Deep groove ball bearing

with shield(s) or seal(s)



Z With one shield 2Z With two shields RZ With one seal 2RZ With two seals

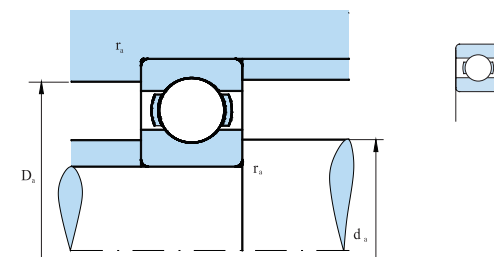
Designations						Boundary dimensions				Basic load ratings	
						d	D	B	$r_{1,2min}$	Cr	Cor
-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	mm				kN	
6008-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	40	68	15	1	16.8	11.6
6208-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		80	18	1.1	27.6	17.4
6308-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		90	23	1.5	40.8	24
61809-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	45	58	7	0.3	4.73	4.5
61809-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		68	12	0.6	14.2	10.9
6009-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		75	16	1	19.9	14
6209-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		85	19	1.1	31.2	20.4
6309-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		100	25	1.5	48.9	29.3
61810-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	50	65	7	0.3	4.93	4.94
61910-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		72	12	0.6	14.6	10.4
6010-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		80	16	1	20.7	15.4
6210-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		90	20	1.1	35.1	23.2
6310-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		110	27	2	57.5	35.3
61811-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	55	72	9	0.3	9.07	8.45
61911-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		80	13	1	18.9	15.1
6011-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		90	18	1.1	26.7	20.1
6211-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		100	21	1.5	43.4	29.2
6311-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		120	29	2	71.6	44.8
61812-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	60	78	10	0.3	10.3	9.91
61912-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		85	13	1	19.4	16.2
6012-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		95	18	1.1	30.2	23
6212-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		110	22	1.5	47.8	32.9
6312-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		130	31	2.1	81.9	51.8
61813-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	65	85	10	0.6	10.8	10.7
61913-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		90	13	1	19.9	17.5
6013-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		100	18	1.1	31.9	24.9
6213-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		120	23	1.5	50.7	37.1
6313-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		140	33	2.1	92.8	59.7
61814-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	70	90	10	0.6	11.2	11.5
61914-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		100	16	1	23.7	21.1
6014-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		110	20	1.1	38.7	30.4
6214-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		125	24	1.5	55.8	41.1



RS1
With one seal



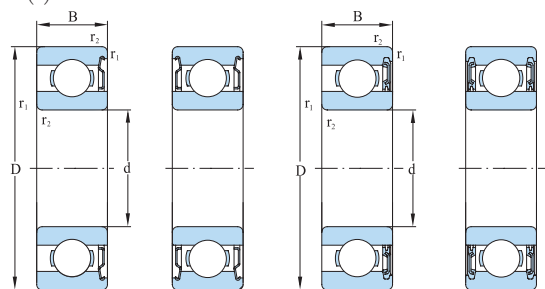
2RS1
With two seals



Limiting speeds			Abutment and fillet dimensions			Mass
Grease		Oil	d _a min	D _a max	r _a max	
2Z	2RZ		2RS1	mm		
r/min						
9500	6300	12000	45	63	1	0.189
8500	5600	10000	46.5	73.5	1	0.375
7500	5000	9000	48	82	1.5	0.645
9500	6700	12000	47	56	0.3	0.04
9000	6000	11000	49	64	0.6	0.131
9000	5600	11000	50	70	1	0.242
7500	5000	9000	51.5	78.5	1	0.423
6700	4500	8000	53	92	1.5	0.858
9000	6000	11000	52	63	0.3	0.052
8500	5600	10000	54	68	0.6	0.139
8500	5000	10000	55	75	1	0.262
7000	4800	8500	56.5	83.5	1	0.47
6300	4300	7500	59	101	2	1.1
8500	5300	10000	57	70	0.3	0.083
8000	5000	9500	60	75	1	0.18
7500	4500	9000	61.5	83.5	1	0.382
6300	4300	7500	63	92	1.5	0.612
5600	3800	6700	64	111	2	1.38
7500	4800	9000	62	76	0.3	0.106
7500	4500	9000	65	80	1	0.193
6700	4300	8000	66.5	88.5	1	0.399
6000	4000	7000	68	102	1.5	0.809
5000	3400	6000	71	119	2	1.72
7000	4500	8500	68.5	81	0.6	0.128
6700	4300	8000	70	85	1	0.206
6300	4000	7500	71.5	93.5	1	0.417
5300	3600	6300	73	112	1.5	1.05
4800	3200	5600	76	129	2	2.12
6700	4300	8000	73.5	86	0.6	0.137
6300	4000	7500	75	95	1	0.342
6000	3600	7000	76.5	103.5	1	0.59
5000	3400	6000	78	117	1.5	1.12

Deep groove ball bearing

with shield(s) or seal(s)

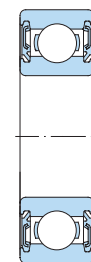


Z With one shield 2Z With two shields RZ With one seal 2RZ With two seals

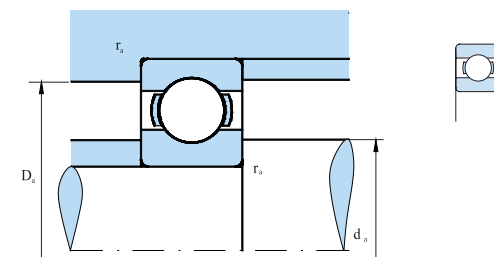
Designations						Boundary dimensions				Basic load ratings	
						d	D	B	r _{1,2} min	Cr	Cor
-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	mm				kN	
6314-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	70	150	35	2.1	104	68
61815-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	75	95	10	0.6	11.3	11.9
61915-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		105	16	1	23.4	22.5
6015-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		115	20	1.1	40.3	33.2
6215-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		130	25	1.5	60.8	45.4
6315-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		160	37	2.1	113	77
61816-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	80	100	10	0.6	11.6	12.7
61916-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		110	16	1	25	23.9
6016-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		125	22	1.1	42.4	35.6
6216-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		140	26	2	71.5	54.3
6316-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		170	39	2.1	123	86.5
61817-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	85	110	13	1	16	16.8
61917-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		120	18	1.1	31.9	29.7
6017-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		130	22	1.1	47.3	40.1
6217-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		150	28	2	77.2	59.3
6317-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		180	41	3	133	96.6
61818-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	90	115	13	1	16.5	18
61918-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		125	18	1	32.8	31.5
6018-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		140	24	1.5	52.8	45.1
6218-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		160	30	2	96.1	71.5
6318-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		190	43	3	143	107
61819-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	95	120	13	1	18.6	18.6
61919-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		130	18	1.1	33.7	33.3
6019-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		145	24	1.5	58	50.1
6219-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		170	32	2.1	109	81.7
6319-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		200	45	3	153	118
61820-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	100	125	13	1	16.9	19.1
61920-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		140	20	1.1	43.9	42
6020-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		150	24	1.5	63.7	50.4
6220-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		180	34	2.1	122	92.7
6320-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		215	47	3	173	140
61821-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	105	130	13	1	17.4	20.4



RS1
With one seal



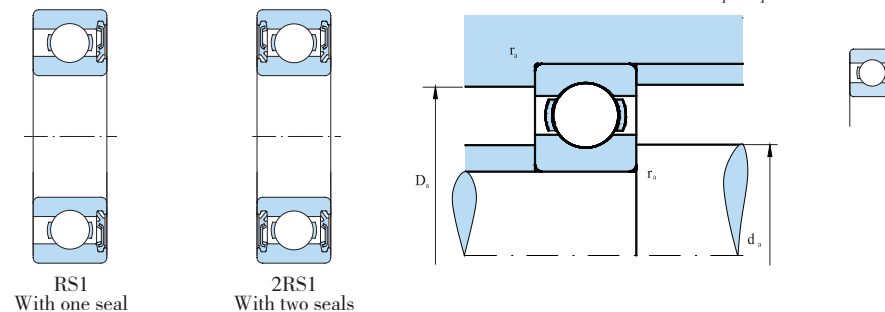
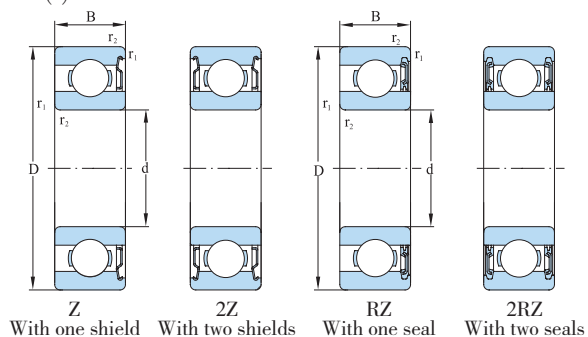
2RS1
With two seals



Limiting speeds			Abutment and fillet dimensions			Mass
Grease		Oil	d _{min}	D _{max}	r _a max	
2Z	2RZ	2RS1	mm			kg
r/min						
4500	3000	5300	81	139	2	2.56
6300	4000	7500	79	91	0.6	0.145
6000	3600	7000	80	100	1	0.364
5600	3400	6700	81.5	108.5	1	0.621
4800	3200	5600	83	122	1.5	1.2
4300	2800	5000	86	149	2	3.06
6000	3600	7000	84	96	0.6	0.154
5600	3400	6700	85	105	1	0.384
5300	3200	6300	86.5	118.5	1	0.862
4500	3000	5300	89	131	2	1.46
3800	2600	4500	91	159	2	3.62
5300	3400	6300	90	105	1	0.27
5300	3400	6300	91.5	113.5	1	0.527
5000	3000	6000	91.5	123.5	1	0.886
4300	2800	5000	94	141	2	1.84
3600	2400	4300	98	167	2.5	4.35
5300	3200	6300	95	110	1	0.3
5000	2900	6000	96.5	118.5	1	0.579
4800	2800	5600	98	132	1.5	1.19
3800	2600	4500	99	151	2	2.63
3400	2400	4000	103	177	2.5	5.87
5000	3000	6000	100	115	1	0.285
4800	2800	5600	101.5	123.5	1	0.554
4500	2800	5300	103	137	1.5	1.16
3600	2400	4300	106	159	2	2.19
3200	2300	3800	108	187	2.5	5.07
4800	3000	5600	105	120	1	0.313
4500	2600	5300	106.5	133.5	1	0.785
4300	2600	5000	108.5	142	1.5	1.15
3400	2400	4000	111	169	2	3.15
3000	2200	3600	113	202	2.5	7
4500	2800	5300	110	125	1	0.32

Deep groove ball bearing

with shield(s) or seal(s)

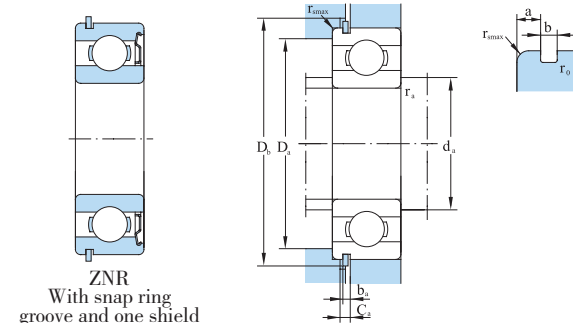
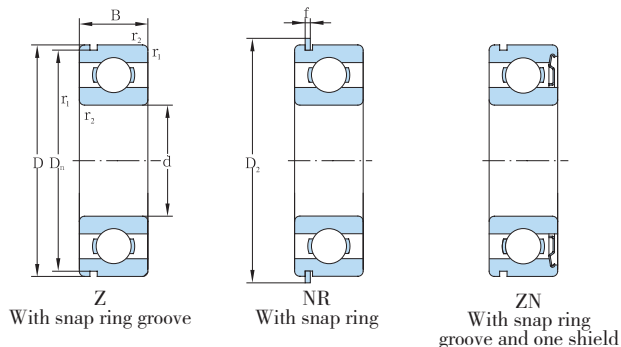


Designations						Boundary dimensions				Basic load ratings	
						d	D	B	r _{1,2min}	Cr	Cor
-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	mm				kN	
61921-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	105	145	20	1.1	46.3	44.8
6021-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		160	26	2	69.8	61.2
6221-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		190	36	2.1	133	104
6321-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		225	49	3	182	153
61822-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	110	140	16	1	24.3	27.2
61922-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		150	20	1.1	47.8	47.7
6022-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		170	28	2	75.1	67.3
6222-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		200	38	2.1	144	117
6322-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	120	240	50	3	203	180
61824-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		150	16	1	25	26
6024-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		180	28	2	88.3	79.7
6224-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		215	40	2.1	156	131
61826-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	130	165	18	1.1	32.5	34
6026-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		200	33	2	102	93.9
6226-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		230	40	3	156	132
61828-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		175	18	1.1	34	36.5
6028-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	140	210	33	2	115	109
6030-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1		225	35	2.1	125	125
6032-Z	-2Z	-RZ	-2RZ	-RS1	-2RS1	160	240	38	2.1	143	143

Limiting speeds			Abutment and fillet dimensions			Mass	
Grease		Oil	d _a min	D _a max	r _a max		
2Z	2RZ		2RS1	mm			kg
r/min							
4300		2500	5000	111.5	138.5	1	0.816
4000		2400	4800	114	151	2	1.59
3200		2200	3800	116	179	2	3.7
2800		2100	3400	118	212	2.5	8.05
4300		2600	5000	115	135	1	0.6
4000		2400	4800	116.5	143.5	1	0.849
3800		2400	4500	119	161	2	1.96
3000		2000	3600	121	189	2	4.45
2600		1900	3200	123	227	2.5	9.54
3800		2400	4500	125	145	1	0.65
3400		2200	4000	129	171	2	2.05
2800		1900	3400	131	204	2	5.26
3600		2200	4300	136	158.5	1	0.93
3200		2000	3800	139	191	2	3.15
2600		1700	3200	143	217	2.5	5.8
3400		2000	4000	146.5	168.5	1	0.99
3000		1800	3600	149	201	2	3.35
2600		1700	3200	161	214	2	4.8
2400		1600	3000	171	229	2	5.9

Deep groove ball bearing

with snap ring groove, snap ring
and or one shield

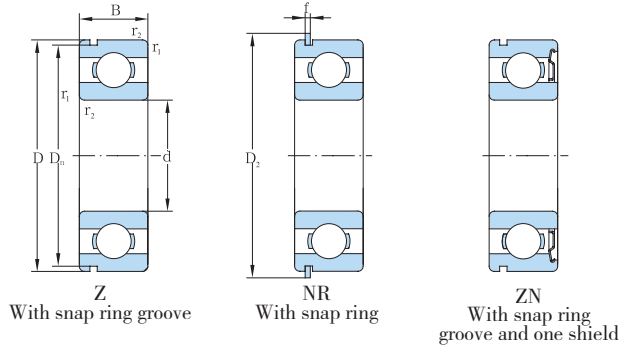


Designations				Boundary dimensions					Basic load ratings		Limiting speeds	
				d	D	B	r _{1,2} min		r _r min	Cr	Cor	Grease
N	NR	-ZN	-ZNR	mm					kN		r/min	
61900 N	NR	-ZN	-ZNR	10	22	6	0.3	0.3	1.95	0.75	34000	40000
6200 N	NR	-ZN	-ZNR		30	9	0.6	0.5	5.1	2.39	24000	30000
6300 N	NR	-ZN	-ZNR		35	11	0.6	0.5	7.66	3.47	20000	26000
61901 N	NR	-ZN	-ZNR	12	24	6	0.3	0.3	2.25	0.98	30000	36000
6001 N	NR	-ZN	-ZNR		28	8	0.3	0.3	5.1	2.39	36000	32000
6201 N	NR	-ZN	-ZNR		32	10	0.6	0.5	6.76	3.05	22000	28000
6301 N	NR	-ZN	-ZNR	15	37	12	1	0.5	8.58	3.92	19000	24000
61902 N	NR	-ZN	-ZNR		28	7	0.3	0.3	4.33	2.25	24000	30000
6002 N	NR	-ZN	-ZNR		32	9	0.3	0.3	5.62	2.84	22000	28000
6202 N	NR	-ZN	-ZNR	17	35	11	0.6	0.5	7.66	3.72	19000	24000
6302 N	NR	-ZN	-ZNR		42	13	1	0.5	11.4	5.4	17000	20000
61903 N	NR	-ZN	-ZNR		30	7	0.3	0.3	4.6	2.55	22000	28000
6003 N	NR	-ZN	-ZNR	20	35	10	0.3	0.3	6.5	3.36	19000	24000
6203 N	NR	-ZN	-ZNR		40	12	0.6	0.5	10.3	4.79	17000	20000
6303 N	NR	-ZN	-ZNR		47	14	1	0.5	13.5	6.55	16000	19000
6403 N	NR	-ZN	-ZNR	22	62	17	1.1	0.5	22.9	10.8	12000	15000
61804 N	NR	-ZN	-ZNR		32	7	0.3	0.3	3.48	2.23	19000	24000
61904 N	NR	-ZN	-ZNR		37	9	0.3	0.3	6.38	3.65	18000	22000
6004 N	NR	-ZN	-ZNR	25	42	12	0.6	0.5	9.44	5.03	17000	20000
6204 N	NR	-ZN	-ZNR		47	14	1	0.5	12.9	6.65	15000	18000
6304 N	NR	-ZN	-ZNR		52	15	1.1	0.5	16	7.88	13000	16000
6406 N	NR	-ZN	-ZNR	28	72	19	1.1	0.5	31.1	15.2	10000	13000
60/22 N	NR	-ZN	-ZNR		44	12	0.6	0.5	9.4	5.05	17000	20000
62/22 N	NR	-ZN	-ZNR		50	14	1	0.5	12.9	6.8	14000	16000
63/22 N	NR	-ZN	-ZNR	25	56	16	1.1	0.5	18.5	9.25	13000	16000
61805 N	NR	-ZN	-ZNR		37	7	0.3	0.3	3.84	2.8	17000	20000
61905 N	NR	-ZN	-ZNR		42	9	0.3	0.3	7.32	4.56	16000	19000
6005 N	NR	-ZN	-ZNR	28	47	12	0.6	0.5	10.1	5.85	15000	18000
6205 N	NR	-ZN	-ZNR		52	15	1	0.5	14	7.87	12000	15000
6305 N	NR	-ZN	-ZNR		62	17	1.1	0.5	22.5	11.6	11000	14000
6405 N	NR	-ZN	-ZNR	28	80	21	1.5	0.5	37.3	18.8	9000	11000
60/28 N	NR	-ZN	-ZNR		52	12	0.6	0.5	10.7	6.63	14000	16000

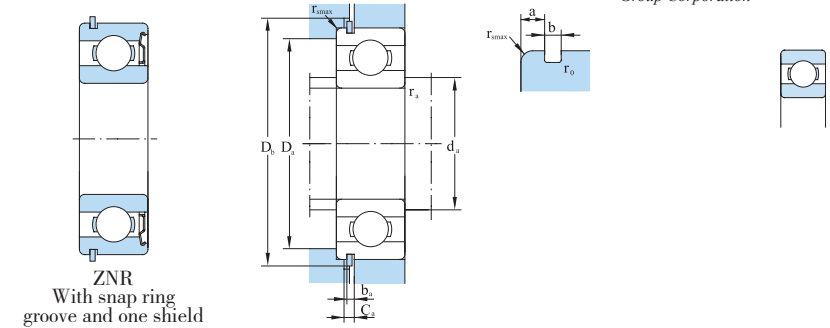
Snap			Snap ring groove dimensions				Abutment and fillet dimensions						Mass
designation	D ₂ max	f	D _n max	b mix	a max	r ₀ max	d _a mix	D _a max	D _b mix	b _a mix	C _a max	r _a mix	
mm			mm				mm						kg
NR1022	24.8	0.7	20.8	0.8	1.05	0.2	12	20	26	1	1.7	0.3	0.0079
NR30	34.7	1.12	28.17	1.35	2.06	0.4	14	26	36	1.5	3.18	0.6	0.0308
NR35	39.7	1.12	33.17	1.35	2.06	0.4	14	31	41	1.5	3.18	0.6	0.0541
NR1024	26.8	0.7	22.8	0.8	1.05	0.2	14	22	28	1	1.7	0.3	0.0107
NR28	30.8	0.85	26.7	0.95	1.3	0.25	14	26	32	1.2	2.15	0.3	0.0211
NR32	36.7	1.12	30.15	1.35	2.06	0.4	16	28	38	1.5	3.18	0.6	0.0356
NR37	41.3	1.12	34.77	1.35	2.06	0.4	17	32	42	1.5	3.18	1	0.062
NR1028	30.8	0.85	26.7	0.95	1.3	0.25	17	26	32	1.2	2.15	0.3	0.0151
NR32	36.7	1.12	30.15	1.35	2.06	0.4	17	30	38	1.5	3.18	0.3	0.0298
NR35	39.7	1.12	33.17	1.35	2.06	0.4	19	31	41	1.5	3.18	0.6	0.0442
NR42	46.3	1.12	39.75	1.35	2.06	0.4	20	37	47	1.5	3.18	1	0.0812
NR1030	32.8	0.85	28.7	0.95	1.3	0.25	19	28	34	1.2	2.15	0.3	0.0173
NR35	39.7	1.12	33.17	1.35	2.06	0.4	19	33	41	1.5	3.18	0.3	0.0382
NR40	44.6	1.12	38.1	1.35	2.06	0.4	21	36	46	1.5	3.18	0.6	0.0636
NR47	52.7	1.12	44.6	1.35	2.46	0.4	22	42	54	1.5	3.58	1	0.114
NR62	67.7	1.7	55.61	1.9	3.28	0.6	23.5	55.5	69	2.2	4.98	1	0.0267
NR1032	34.8	0.85	30.7	0.95	1.3	0.25	22	30	36	1.2	2.15	0.3	0.0176
NR1037	39.8	0.85	35.7	0.95	1.7	0.25	22	35	41	1.2	2.55	0.3	0.0372
NR42	46.3	1.12	39.75	1.35	2.06	0.4	24	38	48	1.5	3.18	0.6	0.0683
NR47	52.7	1.12	44.6	1.35	2.46	0.4	25	42	54	1.5	3.58	1	0.102
NR52	57.9	1.12	49.73	1.35	2.46	0.4	26.5	45.5	59	1.5	3.58	1	0.144
NR72	78.6	1.7	68.81	1.9	3.28	0.6	26.5	65.5	80	2.2	4.98	1	0.397
NR44	48.3	1.12	41.75	1.35	2.06	0.4	26	40	49	1.5	3.18	0.6	0.0724
NR50	55.7	1.12	47.6	1.35	2.46	0.4	27	45	57	1.5	3.58	1	0.116
NR56	61.7	1.12	53.6	1.35	2.46	0.4	28.5	49.5	63	1.5	3.58	1	0.175
NR1037	39.8	0.85	35.7	0.95	1.3	0.25	27	35	41	1.2	2.15	0.3	0.0212
NR1042	44.8	0.85	40.7	0.95	1.7	0.25	27	40	46	1.2	2.55	0.3	0.0427
NR47	52.7	1.12	44.6	1.35	2.06	0.4	29	43	54	1.5	3.18	0.6	0.0786
NR52	57.9	1.12	49.73	1.35	2.46	0.4	30	47	59	1.5	3.58	1	0.126
NR62	67.7	1.7	59.61	1.9	3.28	0.6	31.5	55.5	69	2.2	4.98	1	0.224
NR80	86.6	1.7	76.81	1.9	3.28	0.6	33	72	88	2.2	4.98	1.5	0.526
NR52	57.9	1.12	49.73	1.35	2.06	0.4	32	48	59	1.5	3.18	0.6	0.0991

Deep groove ball bearing

with snap ring groove, snap ring
and or one shield



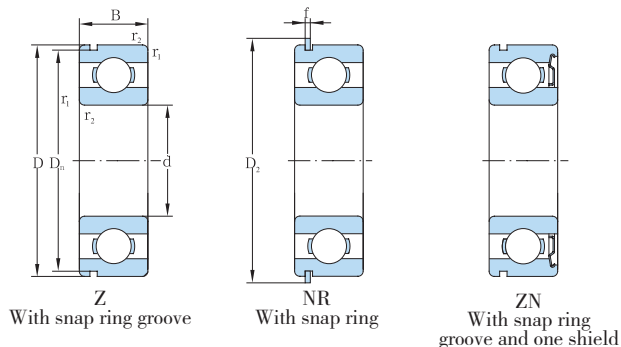
Designations				Boundary dimensions					Basic load ratings		Limiting speeds	
				d	D	B	r _{1,2} min	r _g min	Cr	Cor	Grease	Oil
N	NR	-ZN	-ZNR	28	mm				kN		r/min	
62/28 N	NR	-ZN	-ZNR		58	16	1	0.5	16.6	9.54	12000	14000
63/28 N	NR	-ZN	-ZNR		68	18	1.1	0.5	25	12.1	10000	7500
61806 N	NR	-ZN	-ZNR	30	42	7	0.3	0.5	4.15	3.32	15000	18000
61906 N	NR	-ZN	-ZNR		47	9	0.3	0.5	8.05	5.37	14000	17000
6006 N	NR	-ZN	-ZNR		55	13	1	0.5	13.3	8.36	12000	15000
6206 N	NR	-ZN	-ZNR		62	16	1	0.5	19.5	11.3	10000	13000
6306 N	NR	-ZN	-ZNR	32	72	19	1.1	0.5	26.7	14.9	9000	11000
6406 N	NR	-ZN	-ZNR		90	23	1.5	0.5	47.3	24.5	8500	10000
60/32 N	NR	-ZN	-ZNR		58	13	1	0.5	13.3	8.39	12000	14000
62/32 N	NR	-ZN	-ZNR		65	17	1	0.5	21.2	12.5	10000	12000
63/32 N	NR	-ZN	-ZNR	35	75	20	1.1	0.5	29.9	17	9000	10000
61807 N	NR	-ZN	-ZNR		47	7	0.3	0.5	4.29	3.6	13000	16000
61907 N	NR	-ZN	-ZNR		55	10	0.6	0.5	9.54	6.83	11000	14000
6007 N	NR	-ZN	-ZNR		62	14	1	0.5	16	10.3	10000	13000
6207 N	NR	-ZN	-ZNR	40	72	17	1.1	0.5	25.6	15.3	9000	11000
6307 N	NR	-ZN	-ZNR		80	21	1.5	0.5	33.4	19.2	8500	10000
6407 N	NR	-ZN	-ZNR		100	25	1.5	0.5	55.3	31	7000	8500
61808 N	NR	-ZN	-ZNR		52	7	0.3	0.3	4.52	4.1	11000	14000
61908 N	NR	-ZN	-ZNR	45	62	12	0.6	0.5	12.2	8.9	10000	13000
6008 N	NR	-ZN	-ZNR		68	15	1	0.5	16.8	11.6	9500	12000
6208 N	NR	-ZN	-ZNR		80	18	1.1	0.5	27.6	17.4	8500	10000
6308 N	NR	-ZN	-ZNR		90	23	1.5	0.5	40.8	24	7500	9000
6408 N	NR	-ZN	-ZNR	50	110	27	2	0.5	63.8	36.6	6700	8000
61809 N	NR	-ZN	-ZNR		58	7	0.3	0.3	4.73	4.5	9500	12000
61909 N	NR	-ZN	-ZNR		68	12	0.6	0.5	14.2	10.9	9000	11000
6009 N	NR	-ZN	-ZNR		75	16	1	0.5	19.9	14	9000	11000
6209 N	NR	-ZN	-ZNR	50	85	19	1.1	0.5	31.2	20.4	7500	9000
6309 N	NR	-ZN	-ZNR		100	25	1.5	0.5	48.9	29.3	6700	6700
6409 N	NR	-ZN	-ZNR		120	29	2	0.5	72.9	42.6	6000	6000
61810 N	NR	-ZN	-ZNR		65	7	0.3	0.3	4.93	4.94	9000	11000
61910 N	NR	-ZN	-ZNR	50	72	12	0.6	0.5	14.6	11.7	8500	10000
6010 N	NR	-ZN	-ZNR		80	16	1	0.5	20.7	15.4	8500	10000



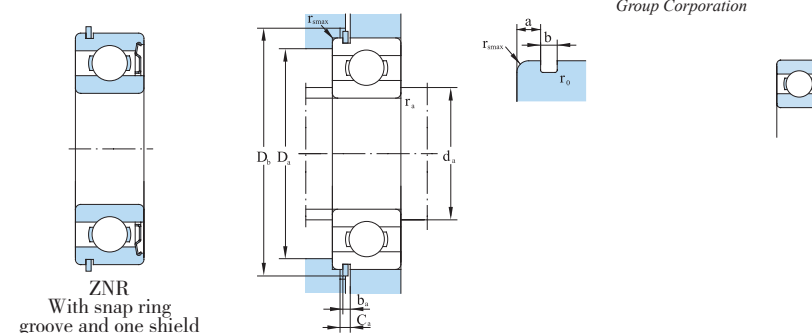
Snap			Snap ring groove dimensions				Abutment and fillet dimensions						Mass
designation	D ₂ max	f	D _n max	b mix	a max	r _o max	d _a mix	D _a max	D _b mix	b _a mix	C _a max	r _a mix	
mm			mm				mm						kg
NR58	63.7	1.12	55.6	1.35	2.46	0.4	33	53	65	1.5	3.58	1	0.172
NR68	74.6	1.7	64.82	1.9	3.28	0.6	34.5	61.5	76	2.2	4.98	1	0.287
NR1042	44.8	0.85	40.7	0.95	1.3	0.25	34.5	40	46	1.2	2.15	0.3	0.0249
NR1047	49.8	0.85	45.7	0.95	1.7	0.25	32	45	51	1.2	2.55	0.3	0.0479
NR55	60.7	1.12	52.6	1.35	2.08	0.4	35	50	62	1.5	3.2	1	0.115
NR62	67.7	1.7	59.61	1.9	3.28	0.6	35	57	69	2.2	4.98	1	0.2
NR72	78.6	1.7	68.81	1.9	3.28	0.6	36.5	65.5	80	2.2	4.98	1	0.35
NR90	96.5	2.46	86.79	2.7	3.28	0.6	38	82	98	3	5.47	1.5	0.724
NR58	63.7	1.12	55.6	1.35	2.08	0.4	37	53	65	1.5	3.2	1	0.127
NR65	70.7	1.7	62.6	1.9	3.28	0.6	37	60	72	2.2	4.98	1	0.227
NR75	81.6	1.7	71.83	1.9	3.28	0.6	38.5	68.5	83	2.2	4.98	1	0.387
NR1047	49.8	0.85	45.7	0.95	1.3	0.25	37	45	51	1.2	2.15	0.3	0.0282
NR1055	57.8	0.8	53.7	0.95	1.7	0.25	39	51	59	1.2	2.55	0.6	0.0769
NR62	67.7	1.7	59.61	1.9	2.08	0.6	40	57	69	2.2	3.76	1	0.148
NR72	78.6	1.7	68.81	1.9	3.28	0.6	41.5	65.5	80	2.2	4.98	1	0.28
NR80	86.6	1.7	76.81	1.9	3.28	0.6	43	72	88	2.2	4.98	1.5	0.449
NR100	106.5	2.46	96.8	2.7	3.28	0.6	43	92	108	3	5.74	1.5	0.918
NR1052	54.8	0.85	50.7	0.95	1.3	0.25	42	50	56	1.2	2.15	0.3	0.0317
NR1062	64.8	0.85	60.7	0.95	1.7	0.25	44	58	66	1.2	2.55	0.6	0.113
NR68	74.6	1.7	64.82	1.9	2.49	0.6	45	63	76	2.2	4.19	1	0.184
NR80	86.6	1.7	76.81	1.9	3.28	0.6	46.5	73.5	88	2.2	4.98	1	0.367
NR90	96.5	2.46	86.79	2.7	3.28	0.6	48	82	98	3	5.74	1.5	0.632
NR110	116.6	2.46	106.81	2.7	3.28	0.6	49	101	118	3	5.74	2	1.23
NR1058	60.8	0.85	56.7	0.95	1.3	0.25	47	56	62	1.2	2.15	0.3	0.0399
NR1068	70.8	0.85	66.7	0.95	1.7	0.25	49	64	72	1.2	2.25	0.6	0.13
NR75	81.6	1.7	71.83	1.9	2.49	0.6	50	70	83	2.2	4.19	1	0.242
NR85	91.6	1.7	81.81	1.9	3.28	0.6	51.5	78.5	93	2.2	4.98	1	0.414
NR100	106.5	2.46	96.8	2.7	3.28	0.6	53	92	108	3	5.74	1.5	0.843
NR120	129.7	2.82	115.21	3.1	4.06	0.6	54	111	131	3.5	6.88	2	1.54
NR1065	67.8	0.85	63.7	0.95	1.3	0.25	52	63	69	1.2	2.15	0.3	0.0545
NR1072	74.8	0.85	70.7	0.95	1.7	0.25	54	68	76	1.2	2.55	0.6	0.138
NR80	86.6	1.7	76.81	1.9	2.45	0.6	55	75	88	2.2	4.19	1	0.256

Deep groove ball bearing

with snap ring groove, snap ring
and or one shield

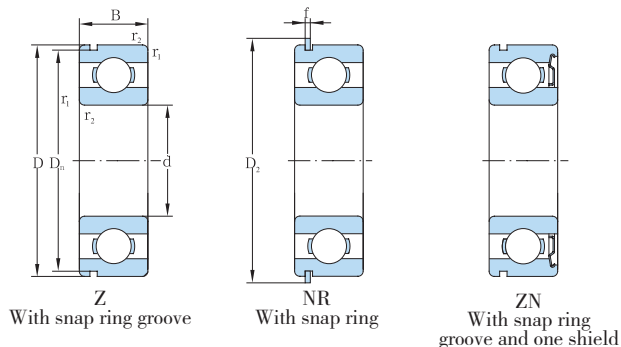


Designations				Boundary dimensions					Basic load ratings		Limiting speeds	
				d	D	B	r _{1,2} min		r _e min	Cr	Cor	Grease
N	NR	-ZN	-ZNR	mm					kN		r/min	
6210 N	NR	-ZN	-ZNR	50	90	20	1.1	0.5	35.1	23.2	7000	8500
6310 N	NR	-ZN	-ZNR		110	27	2	0.5	57.6	35.3	6300	7500
6410 N	NR	-ZN	-ZNR		130	31	2.1	0.5	83.3	49.3	5300	6300
61811 N	NR	-ZN	-ZNR	55	72	9	0.3	0.3	9.07	8.45	8500	10000
61911 N	NR	-ZN	-ZNR		80	13	1	0.5	18.9	15.1	8000	9500
6011 N	NR	-ZN	-ZNR		90	18	1.1	0.5	26.7	20.1	7500	9000
6211 N	NR	-ZN	-ZNR		100	21	1.5	0.5	43.4	29.2	6300	7500
6311 N	NR	-ZN	-ZNR		120	29	2	0.5	71.6	44.8	5600	6700
6411 N	NR	-ZN	-ZNR	60	140	33	2.1	0.5	101	62.3	5000	6000
61812 N	NR	-ZN	-ZNR		78	10	0.3	0.3	10.3	9.91	7500	9000
61912 N	NR	-ZN	-ZNR		85	13	1	0.5	19.4	16.2	7500	9000
6012 N	NR	-ZN	-ZNR		95	18	1.1	0.5	30.2	23	6700	8000
6212 N	NR	-ZN	-ZNR		110	22	1.5	0.5	47.8	32.9	6000	7000
6312 N	NR	-ZN	-ZNR	65	130	31	2.1	0.5	81.9	51.8	5000	6000
6412 N	NR	-ZN	-ZNR		150	35	2.1	0.5	109	70.1	4800	5600
61813 N	NR	-ZN	-ZNR		85	10	0.6	0.5	10.8	10.7	7000	8500
61913 N	NR	-ZN	-ZNR		90	13	1	0.5	19.9	17.5	6700	8000
6013 N	NR	-ZN	-ZNR		100	18	1.1	0.5	31.9	24.9	6300	7500
6213 N	NR	-ZN	-ZNR	70	120	23	1.5	0.5	50.7	37.1	5300	6300
6313 N	NR	-ZN	-ZNR		140	33	2.1	0.5	92.8	59.7	4800	5600
6413 N	NR	-ZN	-ZNR		160	37	2.1	0.5	118	78.6	4500	5300
61814 N	NR	-ZN	-ZNR		90	10	0.6	0.5	11.2	11.5	6700	8000
61914 N	NR	-ZN	-ZNR		100	16	1	0.5	23.7	21.1	6300	7500
6014 N	NR	-ZN	-ZNR	75	110	20	1.1	0.5	38.7	30.4	6000	7000
6214 N	NR	-ZN	-ZNR		125	24	1.5	0.5	55.8	41.1	5000	6000
6314 N	NR	-ZN	-ZNR		150	35	2.1	0.5	104	68	4500	5300
6414 N	NR	-ZN	-ZNR		180	42	3	0.5	135	96.2	3800	4500
61815 N	NR	-ZN	-ZNR		95	10	0.6	0.5	11.3	11.9	6300	7500
61915 N	NR	-ZN	-ZNR	75	105	16	1	0.5	23.4	22.5	6000	7000
6015 N	NR	-ZN	-ZNR		115	20	1.1	0.5	40.3	33.2	5600	6700
6215 N	NR	-ZN	-ZNR		130	25	1.5	0.5	60.8	45.4	4800	5600
6315 N	NR	-ZN	-ZNR		160	37	2.1	0.5	113	77	4300	5000

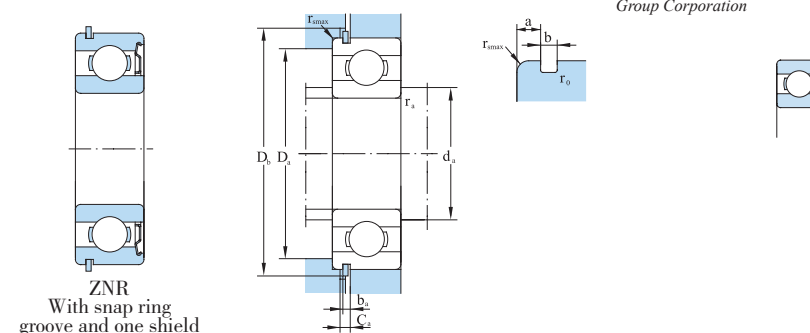


Deep groove ball bearing

with snap ring groove, snap ring
and or one shield



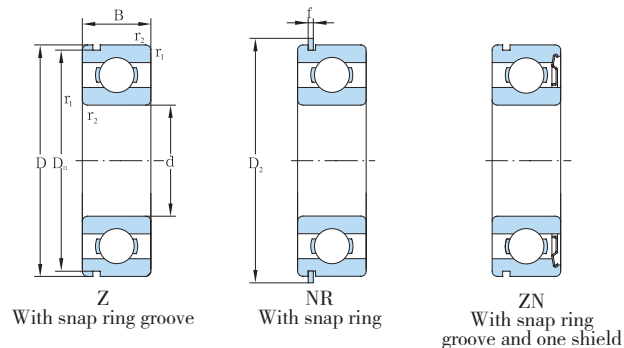
Designations				Boundary dimensions					Basic load ratings		Limiting speeds		
				d	D	B	r _{1,2} min		r _e min	Cr	Cor	Grease	Oil
N	NR	-ZN	-ZNR	mm					kN		r/min		
6415N	NR	-ZN	-ZNR	75	190	45	3	0.5	153	114	3600	4300	
61816N	NR	-ZN	-ZNR		100	10	0.6	0.5	11.6	12.7	6000	7000	
61916N	NR	-ZN	-ZNR		110	16	1	0.5	22	23.9	5600	6700	
6016N	NR	-ZN	-ZNR		80	125	22	1.1	0.5	42.4	35.6	5300	6300
6216N	NR	-ZN	-ZNR			140	26	2	0.5	71.5	54.3	4500	5300
6216N	NR	-ZN	-ZNR			170	39	2.1	0.5	123	86.5	3800	4500
6416N	NR	-ZN	-ZNR	200		48	3	0.5	163	12.5	3400	4000	
61817N	NR	-ZN	-ZNR	85	110	13	1	0.5	16	16.8	5300	6300	
61917N	NR	-ZN	-ZNR		120	18	1.1	0.5	31.9	29.7	5300	6300	
6017N	NR	-ZN	-ZNR		130	22	1.1	0.5	47.3	40.1	5000	6000	
6217N	NR	-ZN	-ZNR		150	28	2	0.5	77.2	59.3	4300	5000	
6317N	NR	-ZN	-ZNR		180	41	3	0.5	133	96.6	3600	4300	
61818N	NR	-ZN	-ZNR		90	115	13	1	0.5	16.5	18	5300	6300
61918N	NR	-ZN	-ZNR	125		18	1.1	0.5	32.8	31.5	5000	6000	
6018N	NR	-ZN	-ZNR	140		24	1.5	0.5	52.3	45.1	4800	5600	
6218N	NR	-ZN	-ZNR	160		30	2	0.5	96.1	71.5	3800	4500	
6318N	NR	-ZN	-ZNR	190		43	3	0.5	143	107	3400	4000	
61819N	NR	-ZN	-ZNR	120		13	1	0.5	18.6	18.6	5000	6000	
61919N	NR	-ZN	-ZNR	95	130	18	1.1	0.5	33.7	33.3	4800	5600	
6019N	NR	-ZN	-ZNR		145	24	1.5	0.5	58	50.1	4500	5300	
6219N	NR	-ZN	-ZNR		170	32	2.1	0.5	109	81.7	3600	4300	
6319N	NR	-ZN	-ZNR		200	45	3	0.5	153	118	3200	3800	
61820N	NR	-ZN	-ZNR		125	13	1	0.5	16.9	19.1	4800	5600	
61920N	NR	-ZN	-ZNR		140	20	1.1	0.5	43.9	42	4500	5300	
6020N	NR	-ZN	-ZNR	100	150	24	1.5	0.5	63.7	50.4	4300	5000	
6220N	NR	-ZN	-ZNR		180	34	2.1	0.5	122	92.7	3400	4000	
61821N	NR	-ZN	-ZNR		105	130	13	1	0.5	17.4	20.4	4500	5300
61921N	NR	-ZN	-ZNR			145	20	1.1	0.5	46.3	44.8	4300	5000
6021N	NR	-ZN	-ZNR			160	26	2	0.5	69.8	61.2	4000	4800
6221N	NR	-ZN	-ZNR			190	36	2.1	0.5	133	104	3200	3800
61822N	NR	-ZN	-ZNR	110	140	16	1	0.5	24.3	27.2	4300	5000	
61922N	NR	-ZN	-ZNR		150	20	1.1	0.5	47.8	47.7	4000	4800	



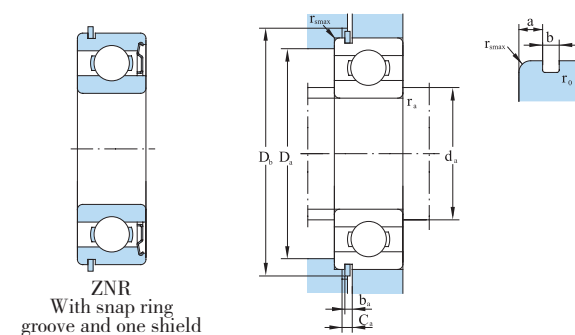
Snap			Snap ring groove dimensions				Abutment and fillet dimensions						Mass
Designation	D ₂ max	f	D _n max	b mix	a max	r _o max	d _a mix	D _a max	D _b mix	b _a mix	C _a max	r _a mix	
mm			mm				mm						kg
NR190	202.9	3.1	183.64	3.5	5.69	0.6	88	177	205	3.5	8.79	2.5	6.75
NR10100	104.4	1.12	97.9	1.3	1.7	0.4	84	96	106	1.5	2.82	0.6	0.149
NR10110	115.7	1.12	107.6	1.3	2.5	0.4	85	105	117	1.5	3.62	1	0.378
NR125	134.7	2.82	120.22	3.1	2.87	0.6	86.5	118.5	136	3.5	5.69	1	0.836
NR140	149.7	2.82	135.23	3.1	4.9	0.6	89	131	151	3.5	7.72	2	1.42
NR170	182.9	3.1	163.65	3.5	5.69	0.6	91	159	185	3.5	8.79	2	3.56
NR200	212.9	3.1	193.65	3.5	5.69	0.6	93	187	215	3.5	8.79	2.5	7.96
NR10110	115.7	1.12	107.6	1.3	2.1	0.4	90	105	117	1.5	3.22	1	0.26
NR10120	125.7	1.12	117.6	1.3	3.3	0.4	91.5	113.5	127	1.5	4.42	1	0.529
NR130	139.7	2.82	125.22	3.1	2.87	0.6	91.5	123.5	141	3.5	5.69	1	0.857
NR150	159.7	2.82	145.24	3.1	4.9	0.6	94	141	162	3.5	7.72	2	1.81
NR180	192.9	3.1	173.66	3.5	5.69	0.6	98	167	195	4	8.79	2.5	4.25
NR10115	120.7	1.12	112.6	1.3	2.1	0.4	95	110	122	1.5	3.2	1	0.279
NR10125	130.7	1.12	122.6	1.3	3.3	0.4	96.5	118.5	132	1.5	4.42	1	0.556
NR140	149.7	2.82	135.23	3.1	3.71	0.6	98	132	152	3.5	6.53	1.5	1.13
NR160	169.7	2.82	155.22	3.1	4.9	0.6	99	151	172	3.5	7.72	2	2.15
NR190	202.9	3.1	183.64	3.5	5.69	0.6	103	177	205	4	8.79	2.5	4.95
NR10120	125.7	1.12	117.6	1.3	2.1	0.4	100	115	127	1.5	3.22	1	0.293
NR10130	135.7	1.12	127.6	1.3	3.3	0.4	101.5	123.5	137	1.5	4.42	1	0.584
NR145	154.7	2.82	140.23	3.1	3.71	0.6	103	137	157	3.5	6.53	1.5	1.16
NR170	182.9	3.1	163.65	3.5	5.69	0.6	106	159	185	4	8.79	2	2.61
NR200	212.9	3.1	193.65	3.5	5.69	0.6	108	187	215	4	8.79	2.5	5.73
NR10125	130.7	1.12	122.6	1.3	2.1	0.4	105	120	132	1.5	3.22	1	0.305
NR10140	145.7	1.7	137.6	1.9	3.3	0.6	106.5	133.5	147	2.2	5	1	0.782
NR150	159.7	2.82	145.24	3.1	3.71	0.6	108	142	162	3.5	6.53	1.5	1.19
NR180	192.9	3.1	173.66	3.5	5.69	0.6	111	169	195	4	8.79	2	3.11
NR10130	135.7	1.12	127.6	1.3	2.1	0.4	110	125	137	1.5	3.22	1	0.32
NR10145	150.7	1.7	142.6	1.9	3.3	0.6	111.5	138.5	152	2.2	5	1	0.802
NR160	169.7	2.82	155.22	3.1	3.71	0.6	114	151	172	3.5	6.53	2	1.54
NR190	202.9	3.1	183.64	3.5	5.69	0.6	116	179	205	4	8.79	2	3.78
NR10140	145.7	1.7	137.6	1.9	2.5	0.6	115	135	147	2.2	4.2	1	0.496
NR10150	155.7	1.7	147.6	1.9	3.3	0.6	116.5	143.5	157	2.2	5	1	0.837

Deep groove ball bearing

with snap ring groove, snap ring
and or one shield



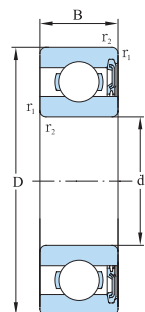
Designations				Boundary dimensions					Basic load ratings		Limiting speeds	
				d	D	B	r _{1,2} min		r _a min	Cr	Cor	Grease
N	NR	-ZN	-ZNR	mm					kN		r/min	
6022N	NR	-ZN	-ZNR	110	170	28	2	0.5	75.1	67.3	3800	4500
6222N	NR	-ZN	-ZNR		200	38	2.1	0.5	144	117	3000	3600
61824N	NR	-ZN	-ZNR	120	150	16	1	0.5	25	26	3800	4500
61924N	NR	-ZN	-ZNR		165	22	1.1	0.5	57.2	56.9	3600	4300
6024N	NR	-ZN	-ZNR	130	180	28	2	0.5	88.3	79.7	3400	4000
61826N	NR	-ZN	-ZNR		165	18	1.1	0.5	32.5	34	3600	4300
61926N	NR	-ZN	-ZNR	140	180	24	1.5	0.5	69.4	70	3400	4000
6026N	NR	-ZN	-ZNR		200	33	2	0.5	102	93.9	3200	3800
61828N	NR	-ZN	-ZNR	150	175	18	1.1	0.5	34	36.5	3400	4000
61928N	NR	-ZN	-ZNR		190	24	1.5	0.5	71.2	74.6	3200	3800
61830N	NR	-ZN	-ZNR	160	190	20	1.1	0.5	42.5	44	3000	3600
61832N	NR	-ZN	-ZNR	160	200	20	1.1	0.5	44	48	2800	3400



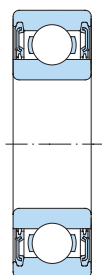
Snap			Snap ring groove dimensions				Abutment and fillet dimensions						Mass
Designation	D ₂ max	f	D _n max	b mix	a max	r ₀ max	d _a mix	D _a max	D _b mix	b _a mix	C _a max	r _a mix	
mm			mm				mm						kg
NR170	182.9	3.1	163.65	3.5	3.71	0.6	119	161	185	4	6.81	2	1.93
NR200	212.9	3.1	193.65	3.5	5.69	0.6	121	189	215	4	8.79	2	4.41
NR10150	155.7	1.7	147.6	1.9	2.5	0.6	125	145	157	2.2	4.2	1	0.532
NR10165	171.5	1.7	161.8	1.9	3.7	0.6	126.5	158.5	173	2.2	5.4	1	1.14
NR10180	192.9	3.1	173.66	3.5	3.71	0.6	129	171	195	4	6.81	2	2.03
NR10165	171.5	1.7	161.8	1.9	3.3	0.6	136.5	158.5	173	2.2	5	1	0.77
NR10180	186.5	1.7	176.8	1.9	3.7	0.6	138	172	188	2.2	5.4	1.5	1.49
NR200	212.9	3.1	193.65	3.5	5.69	0.6	139	191	215	4	8.79	1	3.1
NR10175	181.5	1.7	171.8	1.9	3.3	0.6	146.5	168.5	183	2.2	5	1	0.82
NR10190	196.5	1.7	186.8	1.9	3.7	0.6	148	182	198	2.2	5.4	1.5	1.57
NR10191	196.5	1.7	186.8	1.9	3.3	0.6	156.5	183.5	198	2.2	5	0.6	1.1
NR10200	206.5	1.9	196.8	1.7	3.3	0.6	166.5	193.5	208	2.2	5	0.6	1.16

Deep groove ball bearing

With one seal or two seals



RZ
With one seal

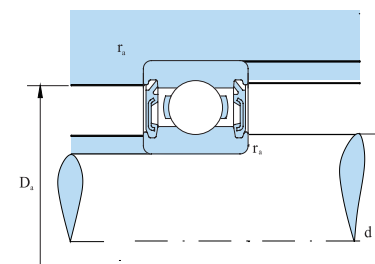


2RZ
With two seals

Designations			Boundary dimensions				Basic load ratings	
			d	D	B	$r_{1,2min}$	Cr	Cor
-RZ	-2RZ	-2RS1	mm				kN	
62200-RZ	-2RZ	-2RS1	10	30	14	0.6	5.1	2.39
62300-RZ	-2RZ	-2RS1		35	17	0.6	7.66	3.47
62201-RZ	-2RZ	-2RS1	12	32	14	0.6	6.76	3.05
62301-RZ	-2RZ	-2RS1		37	17	1	8.58	3.92
62202-RZ	-2RZ	-2RS1	15	35	14	0.6	7.66	3.72
62302-RZ	-2RZ	-2RS1		42	17	1	11.4	5.43
62203-RZ	-2RZ	-2RS1	17	40	16	0.6	10.3	4.79
62303-RZ	-2RZ	-2RS1		47	19	1	13.5	5.78
62204-RZ	-2RZ	-2RS1	20	47	18	1	12.9	6.65
62304-RZ	-2RZ	-2RS1		52	21	1.1	16	7.88
62205-RZ	-2RZ	-2RS1	25	52	18	1	14	7.87
62305-RZ	-2RZ	-2RS1		62	24	1.1	22.6	11.5
62206-RZ	-2RZ	-2RS1	30	62	20	1	19.5	11.3
62306-RZ	-2RZ	-2RS1		72	27	1.1	26.7	14.9
62207-RZ	-2RZ	-2RS1	35	72	23	1.1	25.6	15.5
62307-RZ	-2RZ	-2RS1		80	31	1.5	33.4	19.2
62208-RZ	-2RZ	-2RS1	40	80	23	1.1	27.6	17.4
62308-RZ	-2RZ	-2RS1		90	33	1.5	40.8	24
62209-RZ	-2RZ	-2RS1	45	85	23	1.1	31.2	20.4
62309-RZ	-2RZ	-2RS1		100	36	1.5	48.9	29.3
62210-RZ	-2RZ	-2RS1	50	90	23	1.1	35.1	23.2
62310-RZ	-2RZ	-2RS1		110	40	2	57.6	35.3
62211-RZ	-2RZ	-2RS1	55	100	25	1.5	43.4	29.2
62311-RZ	-2RZ	-2RS1		120	43	2	71.6	44.8
62212-RZ	-2RZ	-2RS1	60	110	28	1.5	47.8	32.9
62312-RZ	-2RZ	-2RS1		130	46	2.1	81.9	51.8
62213-RZ	-2RZ	-2RS1	65	120	31	1.5	50.7	37.1
62313-RZ	-2RZ	-2RS1		140	48	2.1	92.8	59.7
62214-RZ	-2RZ	-2RS1	70	125	31	1.5	55.8	41.1
62314-RZ	-2RZ	-2RS1		150	51	2.1	104	68



2RS1
With two seals



Limiting speeds			Abutment and fillet dimensions			Mass	
Grease		Oil	d_min	D_max	r_max		
2Z	2RZ		2RS1	mm			kg
r/min							
24000	17000	30000	14	26	0.6	0.0489	
20000	15000	26000	14	31	0.6	0.06	
22000	15000	28000	16	28	0.6	0.0496	
19000	14000	24000	17	32	1	0.07	
19000	13000	24000	19	31	0.6	0.056	
17000	12000	20000	20	37	1	0.11	
17000	12000	20000	21	36	0.6	0.0845	
16000	11000	19000	22	42	1	0.15	
15000	10000	18000	25	42	1	0.13	
13000	9500	16000	26.5	45.5	1	0.2	
12000	8500	15000	30	47	1	0.153	
11000	7500	14000	31.5	55.5	1	0.32	
10000	7500	13000	35	57	1	0.249	
9000	6300	11000	36.5	65.5	1	0.48	
9000	6300	11000	41.5	65.5	1	0.378	
8500	6000	10000	43	72	1.5	0.66	
8500	5600	10000	46.5	73.5	1	0.472	
7500	5000	9000	48	82	1.5	0.89	
7500	5000	9000	51.5	78.5	1	0.49	
6700	4500	8000	53	92	1.5	1.15	
7000	4800	8500	56.5	83.5	1	0.526	
6300	4300	7500	59	101	2	1.55	
6300	4300	7500	63	92	1.5	0.7	
5600	3800	6700	64	111	2	1.195	
6000	4000	7000	68	102	1.5	0.998	
5000	3400	6000	71	119	2	2.5	
5300	3600	6300	73	129	1.5	1.37	
4800	3200	5600	76	129	2	3	
5000	3400	6000	78	117	1.5	1.41	
4500	3000	5300	81	139	2	3.55	