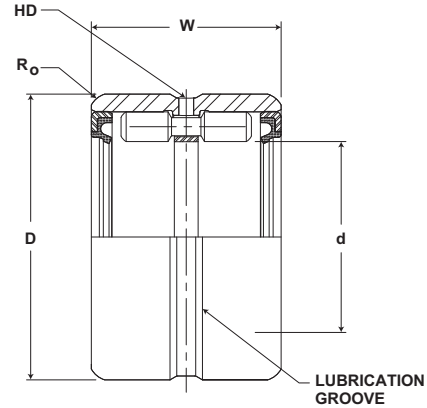


McGILL® GUIDEROL® Bearings

Needle/Journal Bearings



- Basic Construction Type:** Machined Race with full Complement of Needles
- Rolling Elements:** Center Guided Precision Needles
- Bearing Material:** Bearing Quality Steel
- Seal Type:** Rubber Lip
- Lubrication:** Sealed Bearings: Lithium Soap Grease NLGI #1
Unsealed Bearings: Rust Preventative



GR SERIES (continued)

Part No.	d		D		W	Housing Bore Diameter			HD	Ro	Limiting Speed (In Oil)*	Basic Dynamic Rating	Basic Static Rating	Outer & Roller Assembly Weight
	Shaft Diameter		Outside Diameter		Width				Radial Lub. Hole Diameter	Max Hsg Radius to Clear				
	inch mm		inch mm		inch mm	inch mm			inch mm		RPM	lb/N	lb/N	lb kg
	Nom	Tol.	Nom	Tol.	+0/-0.005 (+0/.13)	Rotating	Stationary	Tol.	(Ref)	(Ref)				
GR 64 SS, S, RS, SRS, RSS	4.0000	+0/-0.0007	5.0000	+0/-0.0010	2.000	4.9999	5.0011	+0/-0.0015	.19	0.10	950	26,750	98,800	3.56
GR 64	101.6	+0/-0.018	127.1	+0/-0.025	50.80	127.047	127.078	+0/-0.038	5	3	1,500	118,984	439,462	1.61
GR 68 SS, S, RS, SRS, RSS	4.2500	+0/-0.0007	5.2500	+0/-0.0010	2.000	5.2499	5.2511	+0/-0.0015	.19	0.10	900	27,400	104,000	3.74
GR 68	108.0	+0/-0.018	133.4	+0/-0.025	50.80	133.400	133.430	+0/-0.038	5	3	1,410	121,875	462,592	1.69
GR 72	4.5000	+0/-0.0007	6.0000	+0/-0.0010	2.250	5.9999	6.0011	+0/-0.0015	.19	0.10	1,330	43,400	145,000	7.13
GR 72	114.3	+0/-0.018	152.5	+0/-0.025	57.15	152.457	152.488	+0/-0.038	5	3	1,330	193,043	644,960	3.23
GR 80	5.0000	+0/-0.0007	6.5000	+0/-0.0010	2.250	6.4999	6.5011	+0/-0.0015	.19	0.10	1,200	48,800	161,000	7.78
GR 80	127.1	+0/-0.018	165.2	+0/-0.025	57.15	165.162	165.193	+0/-0.038	5	3	1,200	217,062	716,128	3.53
GR 88 N	5.5000	+0/-0.0007	7.0000	+0/-0.0010	2.500	4.7495	4.7508	+0/-0.0015	.25	0.10	1,090	60,700	171,000	10.40
GR 88	139.8	+0/-0.018	177.9	+0/-0.025	76.20	120.685	120.718	+0/-0.038	6	3	1,090	269,994	760,608	4.73
GR 96 N	6.0000	+0/-0.0010	7.5000	+0/-0.0012	2.500	5.2499	5.2511	+0/-0.0015	.25	0.12	1,000	65,700	223,000	11.08
GR 96	152.5	+0/-0.025	190.6	+0/-0.030	76.20	133.400	133.430	+0/-0.038	6	3	1,000	292,234	991,904	5.02
GR 104 N	6.5000	+0/-0.0010	8.0000	+0/-0.0012	2.500	5.9999	6.0011	+0/-0.0015	.25	0.12	930	68,900	242,000	11.85
GR 104	165.2	+0/-0.025	203.3	+0/-0.030	76.20	152.457	152.488	+0/-0.038	6	3	930	306,467	1,076,416	5.37
GR 116	7.2500	+0/-0.0010	9.1250	+0/-0.0012	3.000	9.1248	9.1261	+0/-0.0015	.25	0.12	840	75,000	308,000	13.55
GR 116	184.2	+0/-0.025	231.9	+0/-0.030	76.20	231.861	231.894	+0/-0.038	6	3	840	333,600	1,369,984	6.15
GR 124	7.7500	+0/-0.0010	9.6250	+0/-0.0012	3.000	6.6250	6.6265	+0/-0.0020	.25	0.12	770	88,700	378,000	21.63
GR 124	196.9	+0/-0.025	244.6	+0/-0.030	76.20	168.341	168.379	+0/-0.051	6	3	770	383,418	1,579,040	8.97
GR 132	8.2500	+0/-0.0010	10.1250	+0/-0.0012	3.000	10.1250	10.1265	+0/-0.0020	.25	0.12	730	88,700	378,000	21.63
GR 132	209.6	+0/-0.025	257.3	+0/-0.030	76.20	257.276	257.314	+0/-0.051	6	3	730	394,538	1,681,344	9.81
GR 140	8.7500	+0/-0.0010	10.6250	+0/-0.0014	3.000	10.6250	10.6265	+0/-0.0020	.25	0.16	690	91,500	401,000	22.73
GR 140	222.3	+0/-0.025	270.0	+0/-0.036	76.20	269.981	270.019	+0/-0.051	6	4	690	406,992	1,783,648	10.31
GR 148	9.2500	+0/-0.0010	11.1250	+0/-0.0014	3.000	11.1250	11.1265	+0/-0.0020	.25	0.16	650	93,500	423,000	24.00
GR 148	235.0	+0/-0.025	282.7	+0/-0.036	76.20	282.686	282.724	+0/-0.051	6	4	650	415,888	1,881,504	10.88

For sealed bearings, Outside diameter may be slightly oversize due to seal press fit.

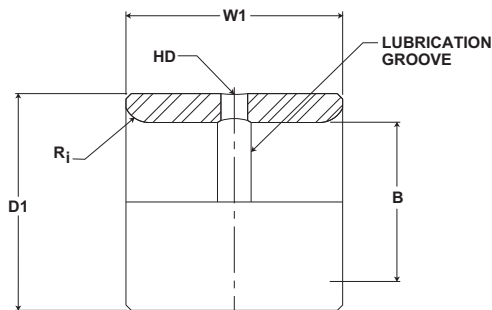
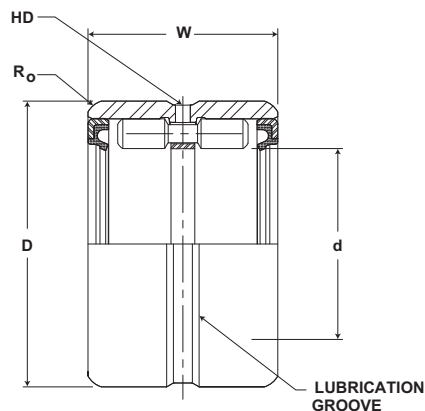
For DS matching as DS suffix to part number

* For bearing properly filled with #1 grease reduce speed by 50%

Metric dimensions for reference only.

Not all parts are available from stock. Please contact customer service for availability (800) 626-2120.

For more information on bearing capabilities outside of our standard offering, please contact Application Engineering (800) 626-2093.



GR SERIES (continued)

Part No.		B		D1		W1	HD	Ri	Recommended Shaft Diameter with inner ring			Inner Weight
Outer Ring & Roller Assembly	Separable Inner Ring Only	Bore Diameter		Outside Diameter		Width	Radial Lub. Hole Diameter	Max Shaft Radius to Clear	Recommended Shaft Diameter with inner ring			lb kg
		inch mm		inch mm		inch mm			inch mm			
		Nom	Tol.	Nom	Tol.	Tol +0/-0.005 (+0/.13)	(Ref)	(Ref)	Rotating	Stationary	Tol.	
GR 64 SS, S, RS, SRS, RSS	MI 54	3.3750 85.759	+0/-0.0008 +0/-0.020	3.9985 101.602	+0/-0.0009 +0/-0.023	2.010 51.07	0.25 6	0.10 3	3.3760 85.8	3.3746 85.7	+0/-0.0010 +0/-0.025	2.04 .93
GR 64	MI 56	3.5000 88.935	+0/-0.0008 +0/-0.020	3.9985 101.602	+0/-0.0009 +0/-0.023	2.010 51.07	0.25 6	0.10 3	3.5010 89.0	3.4996 88.9	+0/-0.0010 +0/-0.025	1.63 .74
GR 68 SS, S, RS, SRS, RSS	MI 58	3.6250 92.111	+0/-0.0008 +0/-0.020	4.2485 107.954	+0/-0.0009 +0/-0.023	2.010 51.07	0.25 6	0.10 3	3.6260 92.1	3.6246 92.1	+0/-0.0010 +0/-0.025	1.70 .77
GR 68	MI 60	3.7500 95.288	+0/-0.0008 +0/-0.020	4.2485 107.954	+0/-0.0009 +0/-0.023	2.010 51.07	0.25 6	0.10 3	3.7510 95.3	3.7496 95.3	+0/-0.0010 +0/-0.025	1.75 .79
GR 72	MI 62	3.8750 98.464	+0/-0.0008 +0/-0.020	4.4985 114.307	+0/-0.0009 +0/-0.023	2.260 57.43	0.25 6	0.10 3	3.8760 98.5	3.8746 98.5	+0/-0.0010 +0/-0.025	3.25 1.47
GR 80	MI 64	4.0000 101.640	+0/-0.0008 +0/-0.020	4.9985 127.012	+0/-0.0010 +0/-0.025	2.260 57.43	0.25 6	0.10 3	4.0010 101.7	3.9996 101.6	+0/-0.0010 +0/-0.025	4.38 1.99
	MI 68	4.2500 107.993	+0/-0.0008 +0/-0.020	4.9985 127.012	+0/-0.0010 +0/-0.025	2.260 57.43	0.25 6	0.10 3	4.2510 108.0	4.2496 108.0	+0/-0.0010 +0/-0.025	5.24 2.37
GR 88 N	MI 72 N	4.5000 114.345	+0/-0.0008 +0/-0.020	5.4985 139.717	+0/-0.0010 +0/-0.025	2.515 63.91	0.25 6	0.10 3	4.5010 114.4	4.4996 114.3	+0/-0.0010 +0/-0.025	5.43 2.47
GR 88	MI 72	4.5000 114.345	+0/-0.0008 +0/-0.020	5.4985 139.717	+0/-0.0010 +0/-0.025	3.015 76.61	0.25 6	0.10 3	4.5010 114.4	4.4996 114.3	+0/-0.0010 +0/-0.025	5.97 2.71
GR 96 N	MI 80 N	5.0000 127.050	+0/-0.0010 +0/-0.025	5.9983 152.417	+0/-0.0010 +0/-0.025	2.515 63.91	0.31 8	0.12 3	5.0010 127.1	4.9995 127.0	+0/-0.0010 +0/-0.025	5.97 2.71
GR 96	MI 80	5.0000 127.050	+0/-0.0010 +0/-0.025	5.9983 152.417	+0/-0.0010 +0/-0.025	3.015 76.61	0.31 8	0.12 3	5.0010 127.1	4.9995 127.0	+0/-0.0010 +0/-0.025	7.12 3.23
GR 104 N	MI 88 N	5.5000 139.755	+0/-0.0010 +0/-0.025	6.4983 165.122	+0/-0.0010 +0/-0.025	2.515 63.91	0.31 8	0.12 3	5.5010 139.8	5.4995 139.7	+0/-0.0010 +0/-0.025	6.30 2.88
GR 104	MI 88	5.5000 139.755	+0/-0.0010 +0/-0.025	6.4983 165.122	+0/-0.0010 +0/-0.025	3.015 76.61	0.31 8	0.12 3	5.5010 139.8	5.4995 139.7	+0/-0.0010 +0/-0.025	7.56 3.43
GR 116	MI 96	6.0000 152.460	+0/-0.0010 +0/-0.025	7.2481 184.174	+0/-0.0012 +0/-0.030	3.015 76.61	0.31 8	0.12 3	6.0012 152.5	5.9995 152.4	+0/-0.0012 +0/-0.030	11.06 5.03
GR 124	MI 104	6.5000 165.165	+0/-0.0010 +0/-0.025	7.7481 196.879	+0/-0.0012 +0/-0.030	3.015 76.61	0.31 8	0.12 3	6.5012 165.2	6.4995 165.2	+0/-0.0012 +0/-0.030	11.99 5.39
GR 132	MI 112	7.0000 177.870	+0/-0.0010 +0/-0.025	8.2481 209.584	+0/-0.0012 +0/-0.030	3.015 76.61	0.31 8	0.12 3	7.0012 177.9	6.9995 177.9	+0/-0.0012 +0/-0.030	12.70 5.77
GR 140	MI 120	7.5000 190.575	+0/-0.0012 +0/-0.030	8.7480 222.287	+0/-0.0012 +0/-0.030	3.015 76.61	0.31 8	0.16 4	7.5012 190.6	7.4995 190.6	+0/-0.0012 +0/-0.030	13.60 6.17
GR 148	MI 128	8.0000 203.280	+0/-0.0012 +0/-0.030	9.2480 234.992	+0/-0.0012 +0/-0.030	3.015 76.61	0.31 8	0.16 4	8.0012 203.3	7.9995 203.3	+0/-0.0012 +0/-0.030	14.40 6.55