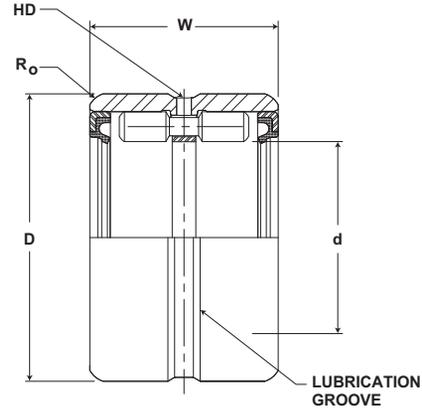


McGILL® GUIDEROL® Bearings

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

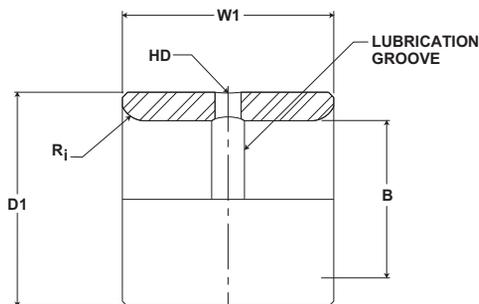
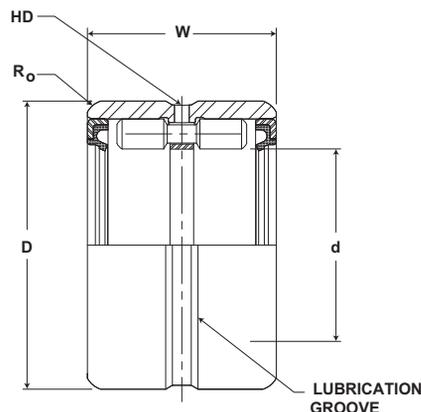


GR SERIES

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	inch			inch		RPM	lb/N	lb/N	lb
GR 8 N	.5000	+0/-0.0005	1.0000	+0/-0.0005	.750	0.9997	1.0070	+0/-0.0007	.08	0.03	TBD	2,600	4,500	.12
	12.7	+0/-0.013	25.4	+0/-0.013	19.05	25.402	25.588	+0/-0.018	2	1				
GR 10 N	.6250	+0/-0.0005	1.1250	+0/-0.0005	.750	1.1247	1.1257	+0/-0.0007	.08	0.03	9,600	3,400	6,400	.12
					19.05	28.579	28.604	+0/-0.018	2	1				
GR 10 SS, S, RS, SRS, RSS	15.9	+0/-0.013	28.6	+0/-0.013	1.000	1.1247	1.1257	+0/-0.0007	.08	0.03	6,100	3,400	6,400	.15
GR 10					25.40	28.579	28.604	+0/-0.018	2	1	9,600	15,123	28,467	.07
GR 12 N	.7500	+0/-0.0005	1.2500	+0/-0.0005	.750	1.2497	1.2507	+0/-0.0007	.08	0.04	8,000	3,700	7,200	.14
					19.05	31.755	31.780	+0/-0.018	2	1				
GR 12 SS, S, RS, SRS, RSS	19.1	+0/-0.013	31.8	+0/-0.013	1.000	1.2497	1.2507	+0/-0.0007	.08	0.04	5,100	3,700	7,200	.17
GR 12					25.40	31.755	31.780	+0/-0.018	2	1	8,000	16,458	32,026	.08
GR 14 N	.8750	+0/-0.0005	1.3750	+0/-0.0005	.750	1.3747	1.3757	+0/-0.0007	.08	0.04	6,800	4,150	8,400	.16
					19.05	34.931	34.957	+0/-0.018	2	1				
GR 14 SS, S, RS, SRS, RSS	22.2	+0/-0.013	34.9	+0/-0.013	1.000	1.3747	1.3757	+0/-0.0007	.08	0.04	4,400	4,150	8,400	.21
GR 14					25.40	34.931	34.957	+0/-0.018	2	1	6,800	18,459	37,363	.09
GR 16 N	1.0000	+0/-0.0005	1.5000	+0/-0.0005	.750	1.4997	1.5007	+0/-0.0007	.08	0.04	6,000	4,350	9,600	.20
					19.05	38.107	38.133	+0/-0.018	2	1				
GR 16 SS, S, RS, SRS, RSS	25.4	+0/-0.013	38.1	+0/-0.013	1.000	1.4997	1.5007	+0/-0.0007	.08	0.04	3,800	4,350	9,600	.23
GR 16					25.40	38.107	38.133	+0/-0.018	2	1	6,000	19,349	42,701	.10
GR 18 N	1.1250	+0/-0.0005	1.6250	+0/-0.0005	.750	1.6247	1.6257	+0/-0.0007	.09	0.04	5,300	6,250	15,200	.24
					19.05	41.284	41.309	+0/-0.018	2	1				
GR 18 SS, S, RS, SRS, RSS	28.6	+0/-0.013	41.3	+0/-0.013	1.000	1.6247	1.6257	+0/-0.0007	.09	0.04	3,400	6,250	15,200	.3
GR 18					25.40	41.284	41.309	+0/-0.018	2	1	5,300	27,800	67,610	.14

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

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 8 N	-	-	-	-	-	-	-	-	-	-	-	-
GR 10 N	MI 6 N	.3750 9.529	+0/-0.004 +0/-0.10	.6245 15.869	+0/-0.004 +0/-0.10	.760 19.31	0.09 2	0.25 6	.3755 9.5	.3747 9.5	+0/-0.005 +0/-0.13	.05 .02
	MI 7 N	.4375 11.117	+0/-0.004 +0/-0.10	.6245 15.869	+0/-0.004 +0/-0.10	.760 19.31	0.09 2	0.25 6	.4380 11.1	.4372 11.1	+0/-0.005 +0/-0.13	.04 .02
GR 10 SS, S, RS, SRS, RSS	MI 6	.3750 9.529	+0/-0.004 +0/-0.10	.6245 15.869	+0/-0.004 +0/-0.10	1.010 25.66	0.09 2	0.25 6	.3755 9.5	.3747 9.5	+0/-0.005 +0/-0.13	.05 .02
GR 10	MI 6	.3750 9.529	+0/-0.004 +0/-0.10	.3750 9.530	+0/-0.004 +0/-0.10	1.010 25.66	0.09 2	0.25 6	.3755 9.5	.3747 9.5	+0/-0.005 +0/-0.13	.05 .02
GR 12 N	MI 8 N	.5000 12.705	+0/-0.004 +0/-0.10	.7493 19.040	+0/-0.005 +0/-0.13	.760 19.31	0.13 3	0.40 10	.5005 12.7	.4997 12.7	+0/-0.005 +0/-0.13	.04 .02
	MI 9 N	.5625 14.293	+0/-0.004 +0/-0.10	.7493 19.040	+0/-0.005 +0/-0.13	.760 19.31	0.13 3	0.40 10	.5630 14.3	.5623 14.3	+0/-0.005 +0/-0.13	.04 .02
GR 12 SS, S, RS, SRS, RSS	MI 8	.5000 12.705	+0/-0.004 +0/-0.10	.7493 19.040	+0/-0.005 +0/-0.13	1.010 25.66	0.13 3	0.40 10	.5005 12.7	.4997 12.7	+0/-0.005 +0/-0.13	.06 .03
GR 12	MI 8	.5000 12.705	+0/-0.004 +0/-0.10	.7493 19.040	+0/-0.005 +0/-0.13	1.010 25.66	0.13 3	0.40 10	.5005 12.7	.4997 12.7	+0/-0.005 +0/-0.13	.06 .03
GR 14 N	MI 10 N	.6250 15.881	+0/-0.004 +0/-0.10	.8743 22.216	+0/-0.005 +0/-0.13	.760 19.31	0.13 3	0.40 10	.6255 15.9	.6247 15.9	+0/-0.005 +0/-0.13	.06 .03
	MI 11 N	.6875 17.469	+0/-0.004 +0/-0.10	.8743 22.216	+0/-0.005 +0/-0.13	.760 19.31	0.13 3	0.40 10	.6880 17.5	.6872 17.5	+0/-0.005 +0/-0.13	.05 .02
GR 14 SS, S, RS, SRS, RSS	MI 10	.6250 15.881	+0/-0.004 +0/-0.10	.8743 22.216	+0/-0.005 +0/-0.13	1.010 25.66	0.13 3	0.40 10	.6255 15.9	.6247 15.9	+0/-0.005 +0/-0.13	.08 .04
GR 14	MI 10	.6250 15.881	+0/-0.004 +0/-0.10	.8743 22.216	+0/-0.005 +0/-0.13	1.010 25.66	0.13 3	0.40 10	.6255 15.9	.6247 15.9	+0/-0.005 +0/-0.13	.08 .04
GR 16 N	MI 12 N	.7500 19.058	+0/-0.004 +0/-0.10	.9993 25.392	+0/-0.005 +0/-0.13	.760 19.31	0.13 3	0.40 10	.7505 19.1	.7497 19.0	+0/-0.005 +0/-0.13	.07 .03
	MI 13 N	.8125 20.646	+0/-0.004 +0/-0.10	.9993 25.392	+0/-0.005 +0/-0.13	.760 19.31	0.13 3	0.40 10	.8130 20.7	.8121 20.6	+0/-0.005 +0/-0.13	.07 .03
GR 16 SS, S, RS, SRS, RSS	MI 12	.7500 19.058	+0/-0.004 +0/-0.10	.9993 25.392	+0/-0.005 +0/-0.13	1.010 25.66	0.13 3	0.40 10	.7505 19.1	.7497 19.0	+0/-0.005 +0/-0.13	.10 .05
GR 16	MI 13	.8125 20.646	+0/-0.004 +0/-0.10	.9993 25.392	+0/-0.005 +0/-0.13	1.010 25.66	0.13 3	0.40 10	.8130 20.7	.8121 20.6	+0/-0.005 +0/-0.13	.11 .05
GR 18 N	MI 14 N	.8750 22.234	+0/-0.005 +0/-0.13	1.124 28.563	+0/-0.005 +0/-0.13	1.010 25.66	0.13 3	0.40 10	.8755 22.2	.8746 22.2	+0/-0.005 +0/-0.13	.11 .05
	MI 15 N	.9375 23.822	+0/-0.005 +0/-0.13	1.124 28.563	+0/-0.005 +0/-0.13	1.010 25.66	0.13 3	0.40 10	.9380 23.8	.9371 23.8	+0/-0.005 +0/-0.13	.11 .05
GR 18 SS, S, RS, SRS, RSS	MI 14	.8750 22.234	+0/-0.005 +0/-0.13	1.124 28.563	+0/-0.005 +0/-0.13	1.260 32.02	0.13 3	0.40 10	.8755 22.2	.8746 22.2	+0/-0.005 +0/-0.13	.13 .06
GR 18	MI 15	.9375 23.822	+0/-0.005 +0/-0.13	1.124 28.563	+0/-0.005 +0/-0.13	1.260 32.02	0.13 3	0.40 10	.9380 23.8	.9371 23.8	+0/-0.005 +0/-0.13	.12 .06