



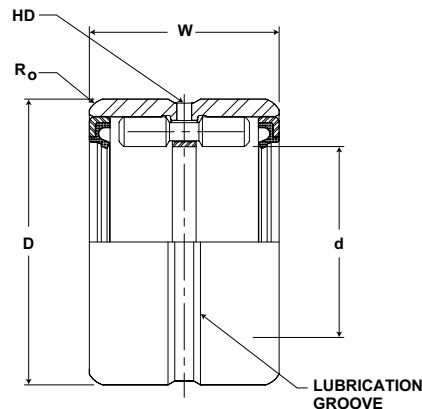
Basic Construction Type: Machined Race with full Complement of Needles

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
Outer Ring & Roller Assembly	Shaft Diameter		Outside Diameter		Width				Radial Lub. Hole Diameter	Max Hsg Radius to Clear				
	inch mm		inch mm		inch mm	inch mm			inch mm					
	Nom	Tol.	Nom	Tol.	Tol +0/-0.005 (+0/.13)	Rotating	Stationary	Tol.	(Ref)	(Ref)				
GR 8 N	.5000 12.7	+0/-0.0005 +0/-0.013	1.0000 25.4	+0/-0.0005 +0/-0.013	.750 19.05	0.9997 25.402	1.0070 25.588	+0/-0.0007 +0/-0.018	.08 2	0.03 1	TBD	2,600 11,565	4,500 20,016	.12 .05
GR 10 N					.750 19.05	1.1247 28.579	1.1257 28.604	+0/-0.0007 +0/-0.018	.08 2	0.03 1	9,600	3,400 15,123	6,400 28,467	.12 .05
						1.1247 28.579	1.1257 28.604	+0/-0.0007 +0/-0.018	.08 2	0.03 1	9,600	3,400 15,123	6,400 28,467	.12 .05
GR 10 SS, S, RS, SRS, RSS	15.9	+0/-0.013	28.6	+0/-0.013	1.000 25.40	1.1247 28.579	1.1257 28.604	+0/-0.0007 +0/-0.018	.08 2	0.03 1	6,100	3,400 15,123	6,400 28,467	.15 .07
GR 10						1.1247 28.579	1.1257 28.604	+0/-0.0007 +0/-0.018	.08 2	0.03 1	9,600	4,700 20,906	9,100 40,477	.15 .07
GR 12 N					.750 19.05	1.2497 31.755	1.2507 31.780	+0/-0.0007 +0/-0.018	.08 2	0.04 1	8,000	3,700 16,458	7,200 32,026	.14 .06
						1.2497 31.755	1.2507 31.780	+0/-0.0007 +0/-0.018	.08 2	0.04 1	8,000	3,700 16,458	7,200 32,026	.14 .06
GR 12 SS, S, RS, SRS, RSS	19.1	+0/-0.013	31.8	+0/-0.013	1.000 25.40	1.2497 31.755	1.2507 31.780	+0/-0.0007 +0/-0.018	.08 2	0.04 1	5,100	3,700 16,458	7,200 32,026	.17 .08
GR 12						1.2497 31.755	1.2507 31.780	+0/-0.0007 +0/-0.018	.08 2	0.04 1	8,000	5,100 22,685	10,900 48,483	.17 .08
GR 14 N					.750 19.05	1.3747 34.931	1.3757 34.957	+0/-0.0007 +0/-0.018	.08 2	0.04 1	6,800	4,150 18,459	8,400 37,363	.16 .07
						1.3747 34.931	1.3757 34.957	+0/-0.0007 +0/-0.018	.08 2	0.04 1	6,800	4,150 18,459	8,400 37,363	.16 .07
GR 14 SS, S, RS, SRS, RSS	22.2	+0/-0.013	34.9	+0/-0.013	1.000 25.40	1.3747 34.931	1.3757 34.957	+0/-0.0007 +0/-0.018	.08 2	0.04 1	4,400	4,150 18,459	8,400 37,363	.21 .09
GR 14						1.3747 34.931	1.3757 34.957	+0/-0.0007 +0/-0.018	.08 2	0.04 1	6,800	5,700 25,354	12,800 56,934	.21 .09
GR 16 N					.750 19.05	1.4997 38.107	1.5007 38.133	+0/-0.0007 +0/-0.018	.08 2	0.04 1	6,000	4,350 19,349	9,600 42,701	.20 .09
						1.4997 38.107	1.5007 38.133	+0/-0.0007 +0/-0.018	.08 2	0.04 1	6,000	4,350 19,349	9,600 42,701	.20 .09
GR 16 SS, S, RS, SRS, RSS	25.4	+0/-0.013	38.1	+0/-0.013	1.000 25.40	1.4997 38.107	1.5007 38.133	+0/-0.0007 +0/-0.018	.08 2	0.04 1	3,800	4,350 19,349	9,600 42,701	.23 .10
GR 16						1.4997 38.107	1.5007 38.133	+0/-0.0007 +0/-0.018	.08 2	0.04 1	6,000	6,050 26,910	14,500 64,496	.23 .10
GR 18 N					.750 19.05	1.6247 41.284	1.6257 41.309	+0/-0.0007 +0/-0.018	.09 2	0.04 1	5,300	6,250 27,800	15,200 67,610	.24 .11
						1.6247 41.284	1.6257 41.309	+0/-0.0007 +0/-0.018	.09 2	0.04 1	5,300	6,250 27,800	15,200 67,610	.24 .11
GR 18 SS, S, RS, SRS, RSS	28.6	+0/-0.013	41.3	+0/-0.013	1.000 25.40	1.6247 41.284	1.6257 41.309	+0/-0.0007 +0/-0.018	.09 2	0.04 1	3,400	6,250 27,800	15,200 67,610	.3 .14
GR 18						1.6247 41.284	1.6257 41.309	+0/-0.0007 +0/-0.018	.09 2	0.04 1	5,300	7,900 35,139	20,900 92,963	.3 .14

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

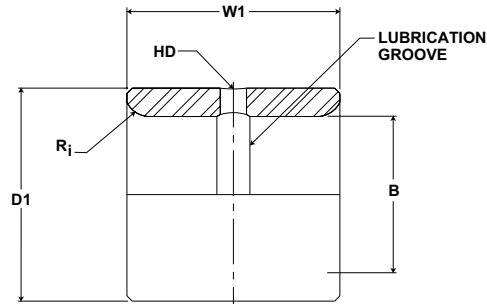
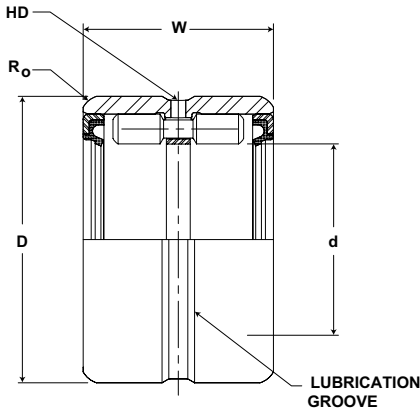
For DS matching as DS suffix to part number

* 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				
		inch mm		inch mm			inch mm		inch mm			lb kg
		Nom	Tol.	Nom	Tol.	Tol +0/- .005 (+0/.13)	(Ref)	(Ref)	Rotating	Stationary	Tol.	
GR 8 N	-	-	-	-	-	-	-	-	-	-	-	-
GR 10 N	MI 6 N	.3750 9.529	+0/- .0004 +0/- .010	.6245 15.869	+0/- .0004 +0/- .010	.760 19.31	0.09 2	0.25 6	.3755 9.5	.3747 9.5	+0/- .0005 +0/- .013	.05 .02
	MI 7 N	.4375 11.117	+0/- .0004 +0/- .010	.6245 15.869	+0/- .0004 +0/- .010	.760 19.31	0.09 2	0.25 6	.4380 11.1	.4372 11.1	+0/- .0005 +0/- .013	.04 .02
GR 10 SS, S, RS, SRS, RSS	MI 6	.3750 9.529	+0/- .0004 +0/- .010	.6245 15.869	+0/- .0004 +0/- .010	1.010 25.66	0.09 2	0.25 6	.3755 9.5	.3747 9.5	+0/- .0005 +0/- .013	.05 .02
GR 10	MI 6	.3750 9.529	+0/- .0004 +0/- .010	.3750 9.530	+0/- .0004 +0/- .010	1.010 25.66	0.09 2	0.25 6	.3755 9.5	.3747 9.5	+0/- .0005 +0/- .013	.05 .02
GR 12 N	MI 8 N	.5000 12.705	+0/- .0004 +0/- .010	.7493 19.040	+0/- .0005 +0/- .013	.760 19.31	0.13 3	0.40 10	.5005 12.7	.4997 12.7	+0/- .0005 +0/- .013	.04 .02
	MI 9 N	.5625 14.293	+0/- .0004 +0/- .010	.7493 19.040	+0/- .0005 +0/- .013	.760 19.31	0.13 3	0.40 10	.5630 14.3	.5623 14.3	+0/- .0005 +0/- .013	.04 .02
GR 12 SS, S, RS, SRS, RSS	MI 8	.5000 12.705	+0/- .0004 +0/- .010	.7493 19.040	+0/- .0005 +0/- .013	1.010 25.66	0.13 3	0.40 10	.5005 12.7	.4997 12.7	+0/- .0005 +0/- .013	.06 .03
GR 12	MI 8	.5000 12.705	+0/- .0004 +0/- .010	.7493 19.040	+0/- .0005 +0/- .013	1.010 25.66	0.13 3	0.40 10	.5005 12.7	.4997 12.7	+0/- .0005 +0/- .013	.06 .03
GR 14 N	MI 10 N	.6250 15.881	+0/- .0004 +0/- .010	.8743 22.216	+0/- .0005 +0/- .013	.760 19.31	0.13 3	0.40 10	.6255 15.9	.6247 15.9	+0/- .0005 +0/- .013	.06 .03
	MI 11 N	.6875 17.469	+0/- .0004 +0/- .010	.8743 22.216	+0/- .0005 +0/- .013	.760 19.31	0.13 3	0.40 10	.6880 17.5	.6872 17.5	+0/- .0005 +0/- .013	.05 .02
GR 14 SS, S, RS, SRS, RSS	MI 10	.6250 15.881	+0/- .0004 +0/- .010	.8743 22.216	+0/- .0005 +0/- .013	1.010 25.66	0.13 3	0.40 10	.6255 15.9	.6247 15.9	+0/- .0005 +0/- .013	.08 .04
GR 14	MI 10	.6250 15.881	+0/- .0004 +0/- .010	.8743 22.216	+0/- .0005 +0/- .013	1.010 25.66	0.13 3	0.40 10	.6255 15.9	.6247 15.9	+0/- .0005 +0/- .013	.08 .04
GR 16 N	MI 12 N	.7500 19.058	+0/- .0004 +0/- .010	.9993 25.392	+0/- .0005 +0/- .013	.760 19.31	0.13 3	0.40 10	.7505 19.1	.7497 19.0	+0/- .0005 +0/- .013	.07 .03
	MI 13 N	.8125 20.646	+0/- .0004 +0/- .010	.9993 25.392	+0/- .0005 +0/- .013	.760 19.31	0.13 3	0.40 10	.8130 20.7	.8121 20.6	+0/- .0005 +0/- .013	.07 .03
GR 16 SS, S, RS, SRS, RSS	MI 12	.7500 19.058	+0/- .0004 +0/- .010	.9993 25.392	+0/- .0005 +0/- .013	1.010 25.66	0.13 3	0.40 10	.7505 19.1	.7497 19.0	+0/- .0005 +0/- .013	.10 .05
GR 16	MI 13	.8125 20.646	+0/- .0004 +0/- .010	.9993 25.392	+0/- .0005 +0/- .013	1.010 25.66	0.13 3	0.40 10	.8130 20.7	.8121 20.6	+0/- .0005 +0/- .013	.11 .05
GR 18 N	MI 14 N	.8750 22.234	+0/- .0005 +0/- .013	1.124 28.563	+0/- .0005 +0/- .013	1.010 25.66	0.13 3	0.40 10	.8755 22.2	.8746 22.2	+0/- .0005 +0/- .013	.11 .05
	MI 15 N	.9375 23.822	+0/- .0005 +0/- .013	1.124 28.563	+0/- .0005 +0/- .013	1.010 25.66	0.13 3	0.40 10	.9380 23.8	.9371 23.8	+0/- .0005 +0/- .013	.11 .05
GR 18 SS, S, RS, SRS, RSS	MI 14	.8750 22.234	+0/- .0005 +0/- .013	1.124 28.563	+0/- .0005 +0/- .013	1.260 32.02	0.13 3	0.40 10	.8755 22.2	.8746 22.2	+0/- .0005 +0/- .013	.13 .06
GR 18	MI 15	.9375 23.822	+0/- .0005 +0/- .013	1.124 28.563	+0/- .0005 +0/- .013	1.260 32.02	0.13 3	0.40 10	.9380 23.8	.9371 23.8	+0/- .0005 +0/- .013	.12 .06