

MCG99

McGILL®

PRECISION BEARINGS

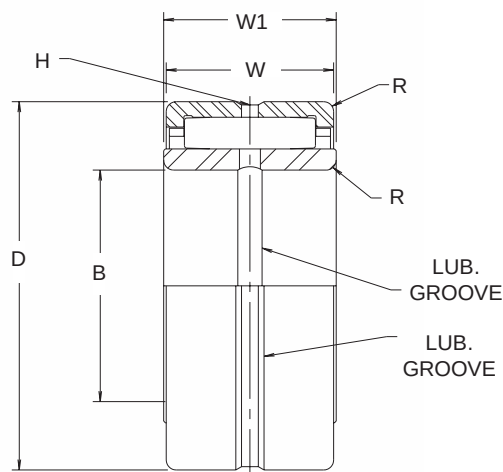


EMERSON POWER TRANSMISSION

MR SERIES

Outer ring and roller assembly
with separable inner ring

Outer ring and roller assemblies and associated inner rings are packed and shipped separately. For a complete bearing, specify both outer and inner numbers desired.



McGILL NUMBER outer ring & roller assy.	McGILL NUMBER inner ring only	MILITARY STANDARD NUMBER	B		D		W	W1	H	R	SHAFT DIA.				HSG. BORE DIA.				STATIC LOAD RATING (LBS.)	BASIC DYNAMIC RATING (LBS.)
			+0.0000	TOL.	+0.0000	TOL.	+0.0000 -0.0005	+0.0000 -0.0005	HOLE DIA.	MAX. FILLET for shaft & hsg.	ROTAT. SHAFT	TOL. +0.0000	STAT. SHAFT	TOL. +0.0000	ROTAT. HSG.	TOL. +0.0000	STAT. HSG.	TOL. +0.0000		
MR-10-N	MI-6-N	MS 500072-1	.3750	-.0004	1.1250	-	.750	.760	5/64	.025	.3755	-	.3747	-	1.1247	-	1.1257	-	4300	4320
MR-10-N	MI-7-N		.4375		1.1250		.750	.760	5/64	.025	.4380		.4372		1.1247		1.1257		4300	4320
MR-10	MI-6		.3750		1.1250		1.000	1.010	5/64	.025	.3755		.3747		1.1247		1.1257		6500	5930
MR-12-N	MI-8-N	MS 500072-2	.5000		1.2500	-.0005	.750	.760	5/64	.040	.5005	-.0005	.4997	-.0005	1.2497	-.0007	1.2507	-.0007	5400	4990
MR-12-N	MI-9-N		.5625		1.2500		.750	.760	5/64	.040	.5630		.5623		1.2497		1.2507		5400	4990
MR-12-N	MI-8	MS 500072-3	.5000		1.2500		1.000	1.010	5/64	.040	.5005		.4997		1.2497		1.2507		8100	6830
MR-14-N	MI-10-N	MS 500072-4	.6250		1.3750		.750	.760	5/64	.040	.6255		.6247		1.3747		1.3757		6000	5280
MR-14-N	MI-11-N		.6875	-.0005	1.3750	-	.750	.760	5/64	.040	.6880	-.0005	.6872	-.0005	1.3747	-.0007	1.3757	-.0007	6000	5280
MR-14	MI-10		.6250		1.3750		1.000	1.010	5/64	.040	.6255		.6247		1.3747		1.3757		9000	7240
MR-16-N	MI-12-N	MS 500072-5	.7500		1.5000	-.0005	.750	.760	5/64	.040	.7505	-.0005	.7497	-.0005	1.4997	-.0007	1.5007	-.0007	7100	5840
MR-16-N	MI-13-N	MS 500072-6	.8125		1.5000		.750	.760	5/64	.040	.8129		.8121		1.4997		1.5007		7100	5840
MR-16	MI-12		.7500		1.5000		1.000	1.010	5/64	.040	.7505		.7497		1.4997		1.5007		10600	8000
MR-16	MI-13	MS 500072-7	.8125		1.5000		1.000	1.010	5/64	.040	.8129		.8121		1.4997		1.5007		10600	8000
MR-18-N	MI-14-N	MS 500072-8	.8750	-.0005	1.6250	-	1.000	1.010	3/32	.040	.8754	-.0005	.8746	-.0005	1.6247	-.0007	1.6257	-.0007	12200	8720
MR-18-N	MI-15-N	MR 500072-9	.9375		1.6250		1.000	1.010	3/32	.040	.9379		.9371		1.6247		1.6257		12200	8720
MR-18	MI-14		.8750		1.6250		1.250	1.260	3/32	.040	.8754		.8746		1.6247		1.6257		16300	10900
MR-18	MI-15		.9375		1.6250		1.250	1.260	3/32	.040	.9379		.9371		1.6247		1.6257		16300	10900
MR-20-N	MI-16-N	MS 500072-10	1.0000	-.0005	1.7500	-	1.000	1.010	3/32	.040	1.0004	-.0005	.9996	-.0005	1.7497	-.0007	1.7507	-.0007	13100	9020
MR-20	MI-16	MS 500072-11	1.0000		1.7500		1.250	1.260	3/32	.040	1.0004		.9996		1.7497		1.7507		17500	11300
MR-22-N	MI-17-N	MS 500072-12	1.1250		1.8750	-.0006	1.000	1.010	3/32	.040	1.1255	-.0006	1.1246	-.0006	1.8747	-.0007	1.8757	-.0007	14700	9640
MR-22	MI-17		1.0625		1.8750		1.250	1.260	3/32	.040	1.0630		1.0621		1.8747		1.8757		19700	12100
MR-22	MI-18	MS 500072-13	1.1250		1.8750		1.250	1.260	3/32	.040	1.1255		1.1246		1.8747		1.8757		19700	12100
MR-24-N	MI-20-N	MS 500072-15	1.2500		2.0625	-.0006	1.000	1.010	3/32	.060	1.2505	-.0006	1.2496	-.0006	2.0621	-.0007	2.0632	-.0007	15500	10300
MR-24	MI-19	MS 500072-14	1.1875		2.0625		1.250	1.260	3/32	.060	1.1880		1.1871		2.0621		2.0632		20800	13000
MR-24	MI-20	MS 500072-16	1.2500		2.0625		1.250	1.260	3/32	.060	1.2505		1.2496		2.0621		2.0632		20800	13000
MR-26-N	MI-21-N	MS 500072-17	1.3125		2.1875	-.0006	1.000	1.010	3/32	.060	1.3130	-.0006	1.3121	-.0006	2.1871	-.0007	2.1882	-.0007	16400	10600
MR-26	MI-21		1.3125		2.1875		1.250	1.260	3/32	.060	1.3130		1.3121		2.1871		2.1882		22100	13300
MR-26	MI-22-4S	MS 500072-18	1.3750		2.1875		1.250	1.260	3/32	.060	1.3755		1.3746		2.1871		2.1882		22100	13300
MR-28-N	MI-24-N	MS 500072-21	1.5000		2.3125	-.0006	1.000	1.010	3/32	.060	1.5005	-.0006	1.4996	-.0006	2.3121	-.0007	2.3132	-.0007	18100	11200
MR-28	MI-22	MS 500072-19	1.3750		2.3125		1.250	1.260	3/32	.060	1.3755		1.3746		2.3121		2.3132		24400	14100
MR-28	MI-23	MS 500072-20	1.4375		2.3125		1.250	1.260	3/32	.060	1.4380		1.4371		2.3121		2.3132		24400	14100
MR-28	MI-24	MS 500072-22	1.5000		2.3125		1.250	1.260	3/32	.060	1.5005		1.4996		2.3121		2.3132		24400	14400

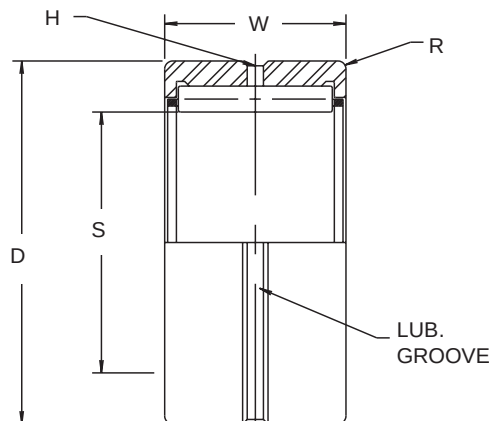
McGILL NUMBER outer ring & roller assy.	McGILL NUMBER inner ring only	MILITARY STANDARD NUMBER	B		D		W	W1	H	R	SHAFT DIA.				HSG. BORE DIA.				STATIC LOAD RATING (LBS.)	BASIC DYNAMIC RATING (LBS.)
			+ .0000	TOL.	+ .0000	TOL.	+ .000 - .005	+ .000 - .005	HOLE DIA.	MAX. FILLET for shaft & hsg.	ROTAT. SHAFT	TOL. + .0000	STAT. SHAFT	TOL. + .0000	ROTAT. HSG.	TOL. + .0000	STAT. HSG.	TOL. + .0000		
MR-30	MI-25-4S		1.5625		2.4375		1.250	1.260	3/32	.060	1.5630		1.5621		2.4371		2.4382		25600	14400
MR-31	MI-26-2S		1.6250		2.5000		1.250	1.260	3/32	.060	1.6255		1.6246		2.4996		2.5007		22400	12400
MR-32-N	MI-26-N		1.6250		2.5625		1.000	1.010	3/32	.060	1.6255		1.6246		2.5621		2.5632		20700	12000
MR-32	MI-25		1.5625		2.5625		1.250	1.260	3/32	.060	1.5630		1.5621		2.5621		2.5632		27900	15200
MR-32	MI-26	MS 500072-23	1.6250		2.5625		1.250	1.260	3/32	.060	1.6255		1.6246		2.5621		2.5632		27900	15200
MR-32	MI-27		1.6875		2.5625		1.250	1.260	3/32	.060	1.6880		1.6871		2.5621		2.5632		27900	15200
MR-36-N	MI-28-N	MS 500072-24	1.7500	-.0005	3.0000	-.0006	1.500	1.510	1/8	.060	1.7505	-.0005	1.7496	-.0005	2.9996	-.0007	3.0007	-.0007	39100	22400
MR-36	MI-28	MS 500072-25	1.7500		3.0000		1.750	1.760	1/8	.060	1.7505		1.7496		2.9996		3.0007		47400	26000
MR-36	MI-30		1.8750		3.0000		1.750	1.760	1/8	.060	1.8755		1.8746		2.9996		3.0007		47400	26000
MR-40-N	MI-32-N	MS 500072-27	2.0000		3.2500		1.500	1.510	1/8	.080	2.0005		1.9996		3.2496		3.2507		42900	23400
MR-40	MI-31	MS 500072-26	1.9375		3.2500		1.750	1.760	1/8	.080	1.9380		1.9371		3.2496		3.2507		52100	27200
MR-40	MI-32		2.0000		3.2500		1.750	1.760	1/8	.080	2.0005		1.9996		3.2496		3.2507		52100	27200
MR-40	MI-34		2.1250		3.2500		1.750	1.760	1/8	.080	2.1258		2.1247		3.2496		3.2507		52100	27200
MR-44-N	MI-36-N	MS 500072-29	2.2500		3.5000		1.500	1.510	1/8	.080	2.2508		2.2497		3.4995		3.5008		46700	24500
MR-44	MI-35	MS 500072-28	2.1875		3.5000		1.750	1.760	1/8	.080	2.1883		2.1872		3.4995		3.5008		56700	28400
MR-44	MI-36		2.2500		3.5000		1.750	1.760	1/8	.080	2.2508		2.2497		3.4995		3.5008		56700	28400
MR-48-N	MI-40-N	MS 500072-31	2.5000		3.7500		1.500	1.510	1/8	.080	2.5008		2.4997		3.7495		3.7508		52300	26100
MR-48	MI-38	MS 500072-30	2.3750		3.7500		1.750	1.760	1/8	.080	2.3758		2.3747		3.7495		3.7508		63400	30300
MR-48	MI-39		2.4375		3.7500		1.750	1.760	1/8	.080	2.4383		2.4372		3.7495		3.7508		63400	30300
MR-48	MI-40		2.5000		3.7500		1.750	1.760	1/8	.080	2.5008	-.0008	2.4997	-.0008	3.7495		3.7508		63400	30300
MR-52	MI-42		2.6250	-.0006	4.2500	-.0008	1.750	1.760	3/16	.080	2.6258		2.6247		4.2495	-.0010	4.2508	-.0010	64400	29900
MR-52	MI-44	MS 500072-32	2.7500		4.2500		1.750	1.760	3/16	.080	2.7508		2.7497		4.2495		4.2508		64400	29900
MR-56-N	MI-48-N		3.0000		4.5000		1.750	1.760	3/16	.080	3.0008		2.9997		4.4995		4.5008		71600	31300
MR-56	MI-46		2.8750		4.5000		2.000	2.010	3/16	.080	2.8758		2.8747		4.4995		4.5008		83500	35900
MR-56	MI-47	MS 500072-34	2.9375		4.5000		2.000	2.010	3/16	.080	2.9383		2.9372		4.4995		4.5008		83500	35900
MR-56	MI-48		3.0000		4.5000		2.000	2.010	3/16	.080	3.0008		2.9997		4.4995		4.5008		83500	35900
MR-60	MI-50	MS 500072-35	3.1250		4.7500		2.000	2.010	3/16	.100	3.1260		3.1246		4.7495		4.7508		87100	36500
MR-60	MI-52	MS 500072-36	3.2500		4.7500		2.000	2.010	3/16	.100	3.2510		3.2496		4.7495		4.7508		87100	36500
MR-64	MI-54	MS 500072-38	3.3750		5.0000		2.000	2.010	3/16	.100	3.3758		3.3746		4.9999		5.0011		93800	38000
MR-64	MI-56		3.5000		5.0000		2.000	2.010	3/16	.100	3.5008		3.4996		4.9999		5.0011		93800	38000
MR-68	MI-58		3.6250		5.2500		2.000	2.010	3/16	.100	3.6258		3.6246		5.2499		5.2511		101000	39500
MR-68	MI-60	MS 500072-40	3.7500		5.2500		2.000	2.010	3/16	.100	3.7508		3.7496		5.2499		5.2511		101000	39500
MR-72	MI-62		3.8750	-.0008	6.0000	-.0010	2.250	2.260	3/16	.100	3.8758		3.8746		5.9999		6.0011		130000	60300
MR-80	MI-64		4.0000		6.5000		2.250	2.260	3/16	.100	4.0008	-.0010	3.9996	-.0010	6.4999		6.5011		148000	64600
MR-80	MI-68		4.2500		6.5000		2.250	2.260	3/16	.100	4.2508		4.2496		6.4999		6.5011		148000	64600
MR-88-N	MI-72-N	MS 500072-43	4.5000		7.0000		2.500	2.515	3/16	.100	4.5008		4.4996		6.9999	-.0015	7.0011	-.0015	169800	70200
MR-88	MI-72	MS 500072-44	4.5000		7.0000		3.000	3.015	3/16	.100	4.5008		4.4996		6.9999		7.0011		220000	85700
MR-96-N	MI-80-N	MS 500072-46	5.0000		7.5000		2.500	2.515	1/4	.120	5.0010		4.9995		7.4998		7.5011		177000	71000
MR-96	MI-80	MS 500072-47	5.0000		7.5000		3.000	3.015	1/4	.120	5.0010		4.9995		7.4998		7.5011		228000	86600
MR-104-N	MI-88-N	MS 500072-48	5.5000		8.0000		2.500	2.515	1/4	.120	5.5010		5.4995		7.9998		8.0011		183000	71700
*MR-104	MI-88	MS 500072-49	5.5000	-.0010	8.0000	-.0012	3.000	3.015	1/4	.120	5.5010		5.4995		7.9998		8.0011		237000	87500
MR-116	MI-96	MS 500072-50	6.0000		9.1250		3.000	3.015	1/4	.120	6.0012		5.9995		9.1248		9.1261		234000	95200
*MR-124	MI-104		6.5000		9.6250		3.000	3.015	1/4	.120	6.5012		6.4995		9.6250		9.6265		252000	99100
*MR-132	MI-112		7.0000		10.1250		3.000	3.015	1/4	.120	7.0012	-.0012	6.9995	-.0012	10.1250		10.1265	-.0012	270000	103000
*MR-140	MI-120		7.5000	-.0012	10.6250	-.0014	3.000	3.015	1/4	.160	7.5010		7.4995		10.6250	-.0020	10.6265	-.0020	280000	104000
MR-148	MI-128		8.0000		11.1250		3.000	3.015	1/4	.160	8.0010		7.9995		11.1250		11.1265		292000	108000

*Not available from stock. Consult McGill Customer Service for availability.

MR SERIES

Outer ring and roller assembly
without separable inner ring

The outer ring and roller assemblies (MR) shown in this table are for use without inner rings on a ground shaft for which a minimum hardness of 58 Rockwell "C" scale is recommended.



S equals shaft diameter

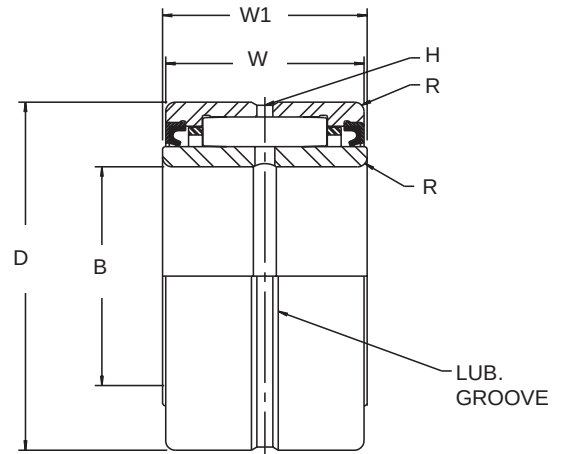
McGILL NUMBER outer ring & roller assy.	MILITARY STANDARD NUMBER	S SHAFT DIA.		D		W	H	R	HSG. BORE DIA.				STATIC LOAD RATING (LBS.)	BASIC DYNAMIC RATING (LBS.)
		+0.000	TOL.	+0.000	TOL.	+0.000 -0.005	HOLE DIA.	MAX. FILLET FOR HOUSING	ROTATING HOUSING	TOL. +0.000- 0	STATIONARY HOUSING	TOL. +0.000- 0		
MR-10-N MR-10	MS 51961-1	.6250	-.0005	1.1250	-.0005	.750 1.000	5/64	.025	1.1247	-.0007	1.1257	-.0007	4300 6500	4320 5930
MR-12-N MR-12	MS 51961-2 MS 51961-3	.7500		1.2500		.750 1.000	5/64	.040	1.2497		1.2507		5400 8100	4990 6830
MR-14-N MR-14	MS 51961-5 MS 51961-6	.8750		1.3750		.750 1.000	5/64	.040	1.3747		1.3757		6000 9000	5280 7240
MR-16-N MR-16	MS 51961-8 MS 51961-9	1.0000		1.5000		.750 1.000	5/64	.040	1.4997		1.5007		7100 10600	5840 8000
MR-18-N MR-18	MS 51961-11 MS 51961-12	1.1250		1.6250		1.000 1.250	3/32	.040	1.6247		1.6257		12200 16300	8720 10900
MR-20-N MR-20	MS 51961-14 MS 51961-15	1.2500		1.7500		1.000 1.250	3/32	.040	1.7497		1.7507		13100 17500	9020 11300
MR-22-N MR-22	MS 51961-18 MS 51961-19	1.3750		1.8750	-.0006	1.000 1.250	3/32	.040	1.8747		1.8757		14700 19700	9640 12100
MR-24-N MR-24	MS 51961-21 MS 51961-22	1.5000		2.0625		1.000 1.250	3/32	.060	2.0621		2.0632		15500 20800	10300 13000
MR-26-N MR-26	MS 51961-24 MS 51961-25	1.6250		2.1875		1.000 1.250	3/32	.060	2.1871		2.1882		16400 22100	10600 13300
MR-28-N MR-28	MS 51961-27 MS 51961-28	1.7500		2.3125		1.000 1.250	3/32	.060	2.3121		2.3132		18100 24400	11200 14100
MR-30-N MR-30	MS 51961-29	1.8750		2.4375		1.000 1.250	3/32	.060	2.4371		2.4382		19000 25600	11400 14400
MR-31		1.9375		2.5000		1.250	3/32	.060	2.4996		2.5007		22400	12400
MR-32-N MR-32	MS 51961-30	2.0000		2.5625		1.000 1.250	3/32	.060	2.5621		2.5632		20700 27900	12000 15200
MR-36-N MR-36	MS 51961-31 MS 51961-32	2.2500		3.0000		1.500 1.750	1/8	.060	2.9996		3.0007		39100 47400	22400 26000
MR-40-N MR-40	MS 51961-33 MS 51961-34	2.5000		3.2500		1.500 1.750	1/8	.080	3.2496		3.2507		42900 52100	23400 27200
MR-44-N MR-44	MS 51961-35 MS 51961-36	2.7500		3.5000	-.0008	1.500 1.750	1/8	.080	3.4995	-.0010	3.5008	-.0010	46700 56700	24500 28400
MR-48-N MR-48	1961-37 MS 51961-38	3.0000		3.7500		1.500 1.750	1/8	.080	3.7495		3.7508		52300 63400	26100 30300
MR-52	MS 51961-39	3.2500		4.2500		1.750	3/16	.080	4.2495		4.2508		64400	29900
MR-56-N MR-56	MS 51961-41 MS 51961-42	3.5000		4.5000		1.750 2.000	3/16	.080	4.4995		4.5008		71600 83500	31300 35900
MR-60	MS 51961-43	3.7500		4.7500		2.000	3/16	.100	4.7495		4.7508		87100	36500
MR-64	MS 51961-45	4.0000	-.0007	5.0000	-.0010	2.000	3/16	.100	4.9999	-.0015	5.0011	-.0015	93800	38000
MR-68	MS 51961-46	4.2500		5.2500		2.000	3/16	.100	5.2499		5.2511		101000	39500
MR-72	MS 51961-48	4.5000		6.0000		2.250	3/16	.100	5.9999		6.0011		130000	60300
MR-80		5.0000		6.5000		2.250	3/16	.100	6.4999		6.5011		148000	64600
MR-88-N MR-88	MS 51961-52 MS 51961-53	5.5000		7.0000		2.500 3.000	3/16	.100	6.9999		7.0011		169800 222000	70200 85700
MR-96-N MR-96	MS 51961-55 MS 51961-56	6.0000		7.5000	-.0012	2.500 3.000	1/4	.120	7.4998		7.5011		177000 228000	71000 86600
MR-104-N *MR-104	MS 51961-57 MS 51961-58	6.5000		8.0000		2.500 3.000	1/4	.120	7.9998		8.0011		183000 237000	71700 87500
MR-116	MS 51961-59	7.2500		9.1250		3.000	1/4	.120	9.1248		9.1261		234000	95200
*MR-124		7.7500		9.6250		3.000	1/4	.120	9.6250		9.6265	-.0020	252000	99100
*MR-132		8.2500		10.1250	-.0014	3.000	1/4	.120	10.1250	-.0020	10.1265		270000	103000
*MR-140		8.7500		10.6250		3.000	1/4	.160	10.6250		10.6265		280000	104000
MR-148		9.2500		11.1250		3.000	1/4	.160	11.1250		11.1265		292000	108000

*Not available from stock. Consult McGill Customer Service for availability.

Outer ring and roller assembly with separable inner ring

Available in 5 seal combinations (see page 69 also)

For a complete bearing, specify both outer and inner, as each is packed and shipped separately. Consult McGill Engineering Department for additional information on CAGEROL® bearing sizes not listed as available with seals. The suffix "SS" indicates double seals with lips turned in (illustrated at right). This construction is most common and is intended primarily for lubrication retention. For other seal combinations, see page 69.



McGILL NUMBER outer ring & roller assy.	McGILL NUMBER inner ring only	B		D*		W	W1	H	R	SHAFT DIA.				HSG. BORE DIA.				STATIC LOAD RATING (LBS.)	BASIC DYNAMIC RATING (LBS.)
		+0.0000	TOL.	+0.0000	TOL.	+0.000 -0.005	+0.000 -0.005	HOLE DIA.	MAX. FILLET for shaft & hsg.	ROTAT. SHAFT	TOL. +0.0000	STAT. SHAFT	TOL. +0.0000	ROTAT. HSG.	TOL. +0.0000	STAT. HSG.	TOL. +0.0000		
MR-10-SS	MI-6	.3750	-.0004	1.1250	-.0005	1.000	1.010	5/64	.025	.3755	-.0005	.3747	-.0005	1.1247	-.0007	1.1257	-.0007	4300	4320
MR-12-SS	MI-8	.5000		1.2500		1.000	1.010	5/64	.040	.5005		.4997		1.2497		1.2507		5400	4990
MR-14-SS	MI-10	.6250		1.3750		1.000	1.010	5/64	.040	.6255		.6247		1.3747		1.3757		6000	5280
MR-16-SS	MI-12	.7500	-.0005	1.5000	-.0005	1.000	1.010	5/64	.040	.7505	-.0005	.7497	-.0005	1.4997	-.0007	1.5007	-.0007	7100	5840
	MI-13	.8125		1.5000		1.000	1.010		.8129	.8121		1.4997		1.5007		7100		5840	
MR-18-SS	MI-14	.8750		1.6250		1.250	1.260	3/32	.040	.8754		.8746		1.6247		1.6257		12200	8720
	MI-15	.9375	1.6250	1.250	1.260			.9379	.9371			12200	8720						
MR-20-SS	MI-16	1.0000		1.7500		1.250	1.260	3/32	.040	1.0004		.9996		1.7497		1.7507	13100	9020	
MR-22-SS	MI-17	1.0625	-.0005	1.8750	-.0005	1.250	1.260	3/32	.040	1.0630	-.0005	1.0621	-.0005	1.8747	-.0007	1.8757	-.0007	14700	9640
	MI-18	1.1250		1.8750		1.250	1.260		1.1255	1.1246		1.8747		1.8757		14700		9640	
MR-24-SS	MI-19	1.1875		2.0625		1.250	1.260	3/32	.060	1.1880		1.1871		2.0621		2.0632		15500	10300
	MI-20	1.2500	2.0625	1.250	1.260			1.2505	1.2496	2.0621	2.0632	15500	10300						
MR-26-SS	MI-21	1.3125	-.0005	2.1875	-.0006	1.250	1.260	3/32	.060	1.3130	-.0008	1.3121	-.0008	2.1871	-.0010	2.1882	-.0010	16400	10600
	MI-22-4S	1.3750		2.1875		1.250	1.260		1.3755	1.3746		2.1871		2.1882		16400		10600	
MR-28-SS	MI-22	1.3750		2.3125		1.250	1.260	3/32	.060	1.3755		1.3746		2.3121		2.3132		18100	11200
	MI-23	1.4375	2.3125	1.250	1.260			1.4380	1.4371	2.3121	2.3132	18100	11200						
	MI-24	1.5000	2.3125	1.250	1.260			1.5005	1.4996	2.3121	2.3132	18100	11200						
MR-30-SS	MI-25-4S	1.5625		2.4375		1.250	1.260	3/32	.060	1.5630		1.5621		2.4371		2.4382	19000	11400	
MR-32-SS	MI-25	1.5625	-.0006	2.5625	-.0006	1.250	1.260	3/32	.060	1.5630	-.0008	1.5621	-.0008	2.5621	-.0010	2.5632	-.0010	20700	12000
	MI-26	1.6250		2.5625		1.250	1.260		1.6255	1.6246		2.5621		2.5632		20700		12000	
	MI-27	1.6875		2.5625		1.250	1.260		1.6880	1.6871		2.5621		2.5632		20700		12000	
MR-36-SS	MI-28	1.7500	-.0006	3.0000	-.0006	1.750	1.760	1/8	.060	1.7505	-.0008	1.7496	-.0008	2.9996	-.0010	3.0007	-.0010	39100	22400
	MI-30	1.8750		3.0000		1.750	1.760		1.8755	1.8746		2.9996		3.0007		39100		22400	
MR-40-SS	MI-31	1.9375		3.2500		1.750	1.760	1/8	.080	1.9380		1.9371		3.2496		3.2507		42900	23400
	MI-32	2.0000	3.2500	1.750	1.760			2.0005	1.9996	3.2496	3.2507	42900	23400						
	MI-34	2.1250	3.2500	1.750	1.760			2.1258	2.1247	3.2496	3.2507	42900	23400						
MR-44-SS	MI-35	2.1875	-.0006	3.5000	-.0008	1.750	1.760	1/8	.080	2.1883	-.0010	2.1872	-.0010	3.4995	-.0015	3.5008	-.0015	46700	24500
	MI-36	2.2500		3.5000		1.750	1.760		2.2508	2.2497		3.4995		3.5008		46700		24500	
MR-48-SS	MI-38	2.3750		3.7500		1.750	1.760	1/8	.080	2.3758		2.3747		3.7495		3.7508		52300	26100
	MI-39	2.4375	3.7500	1.750	1.760			2.4383	2.4372	3.7495	3.7508	52300	26100						
	MI-40	2.5000	3.7500	1.750	1.760			2.5008	2.4997	3.7495	3.7508	52300	26100						
†MR-52-SS	MI-42	2.6250	-.0006	4.2500	-.0008	1.750	1.760	3/16	.080	2.6258	-.0010	2.6247	-.0010	4.2495	-.0015	4.2508	-.0015	54300	25100
	MI-44	2.7500		4.2500		1.750	1.760		2.7508	2.7497		4.2495		4.2508		54300		25100	
MR-56-SS	MI-46	2.8750		4.5000		2.000	2.010	3/16	.080	2.8758		2.8747		4.4995		4.5008		71600	31300
	MI-47	2.9375	4.5000	2.000	2.010			2.9383	2.9372	4.4995	4.5008	71600	31300						
	MI-48	3.0000	4.5000	2.000	2.010			3.0008	2.9997	4.4995	4.5008	71600	31300						
†MR-60-SS	MI-50	3.1250	-.0008	4.7500	-.0010	2.000	2.010	3/16	.100	3.1260	-.0010	3.1246	-.0010	4.7495	-.0015	4.7508	-.0015	80400	31600
	MI-52	3.2500		4.7500		2.000	2.010		3.2510	3.2496		4.7495		4.7508		80400		31600	
†MR-64-SS	MI-54	3.3750		5.0000		2.000	2.010	3/16	.100	3.3758		3.3746		4.9999		5.0011		80400	32800
	MI-56	3.5000	5.0000	2.000	2.010			3.5008	3.4996	4.9999	5.0011	80400	32800						
†MR-68-SS	MI-58	3.6250	-.0008	5.2500	-.0010	2.000	2.010	3/16	.100	3.6258	-.0010	3.6246	-.0010	5.2499	-.0015	5.2511	-.0015	86200	34000
	MI-60	3.7500		5.2500		2.000	2.010		3.7508	3.7496		5.2499		5.2511		86200		34000	

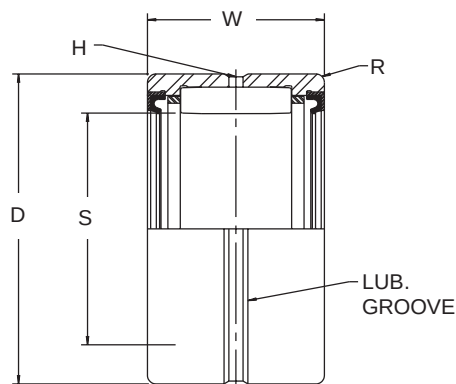
† These sizes are not available from stock. Consult McGill Customer Service for availability.

* This dimension may be slightly oversize due to seal press fit.

Outer ring and roller assembly without separable inner ring

Available in 5 seal combinations (see page 69 also)

The outer ring and roller assemblies are for use without inner rings on a ground shaft for which a minimum hardness of 58 Rockwell "C" scale is recommended. The suffix "SS" indicates double seals with lips turned in (illustrated at right). This construction is most common and is intended primarily for lubrication retention. For other seal combinations, see page 69.



S equals shaft diameter

McGILL NUMBER outer ring & roller assy.	S SHAFT DIA.		D*		W	H	R	HSG. BORE DIA.				STATIC LOAD RATING (LBS.)	BASIC DYNAMIC RATING (LBS.)
	+ .0000	TOL.	+ .0000	TOL.	+ .000 - .005	HOLE DIA.	MAX. FILLET FOR HOUSING	ROTATING HOUSING	TOL. + .0000	STATIONARY HOUSING	TOL. + .0000		
MR-10-SS	.6250	-.0005	1.1250	-.0005	1.000	5/64	.025	1.1247	-.0007	1.1257	-.0007	4300	4320
MR-12-SS	.7500		1.2500		1.000	5/64	.040	1.2497		1.2507		5400	4990
MR-14-SS	.8750		1.3750		1.000	5/64	.040	1.3747		1.3757		6000	5280
MR-16-SS	1.0000		1.5000		1.000	5/64	.040	1.4997		1.5007		7100	5840
MR-18-SS	1.1250		1.6250	-.0006	1.250	3/32	.040	1.6247		1.6257		12200	8720
MR-20-SS	1.2500		1.7500		1.250	3/32	.040	1.7497		1.7507		13100	9020
MR-22-SS	1.3750		1.8750		1.250	3/32	.040	1.8747		1.8757		14700	9640
MR-24-SS	1.5000		2.0625		1.250	3/32	.060	2.0621		2.0632		15500	10300
MR-26-SS	1.6250		2.1875		1.250	3/32	.060	2.1871		2.1882		16400	10600
MR-28-SS	1.7500		2.3125		1.250	3/32	.060	2.3121		2.3132		18100	11200
MR-30-SS	1.8750		2.4375		1.250	3/32	.060	2.4371		2.4382		19000	11400
MR-32-SS	2.0000		2.5625		1.250	3/32	.060	2.5621		2.5632		20700	12000
MR-36-SS	2.2500		3.0000	-.0008	1.750	1/8	.060	2.9996	-.0010	3.0007	-.0010	39100	22400
MR-40-SS	2.5000	-.0007	3.2500		1.750	1/8	.080	3.2496		3.2507		42900	23400
MR-44-SS	2.7500		3.5000		1.750	1/8	.080	3.4995		3.5008		46700	24500
MR-48-SS	3.0000		3.7500		1.750	1/8	.080	3.7495		3.7508		52300	26100
†MR-52-SS	3.2500	-.0007	4.2500	-.0010	1.750	3/16	.080	4.2495	-.0015	4.2508	-.0015	54300	25100
MR-56-SS	3.5000		4.5000		2.000	3/16	.080	4.4995		4.5008		71600	31300
†MR-60-SS	3.7500		4.7500		2.000	3/16	.100	4.7495		4.7508		74700	31600
†MR-64-SS	4.0000		5.0000		2.000	3/16	.100	4.9999		5.0011		80400	32800
†MR-68-SS	4.2500		5.2500		2.000	3/16	.100	5.2499		5.2511		86200	34000

† These sizes are not available from stock. Consult McGill Customer Service for availability.

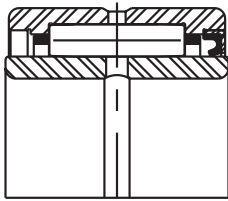
* This dimension may be slightly oversize due to seal press fit.

Seal operating information

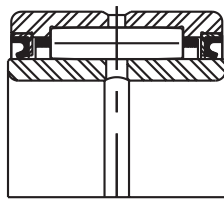
Maximum peripheral shaft speed should not exceed 1000 feet per minute. Maximum operation temperature should not exceed 250°F. constant, 300°F. intermittent. Provision for lead or radius should be made on shaft corner to facilitate assembly of sealed bearings of the RS or SRS configuration. Venting of relubrication pressure is required to avoid displacement of seals in the S or SS configuration.

Other seal combinations and suffixes

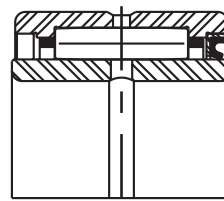
Depending on the type of sealing to be accomplished, the seals for the SMR CAGEROL® Bearing may be applied to the bearing with the lips turned in or out or in combination. With single and double sealed bearings, this means five methods are possible. The arrangements are identified by adding the proper suffix to the standard CAGEROL® bearing number, as explained below.



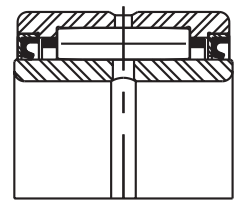
Suffix "S" indicates single seal with lip turned in. Normally, it would be used in conjunction with another sealed bearing on opposite end of shaft and would be intended for lubricant retention.



Suffix "RSS" is the designation for double-sealed bearing with both seal lips turned out. Primary function of "RSS" seals would be to help prevent entry of foreign material from either end.



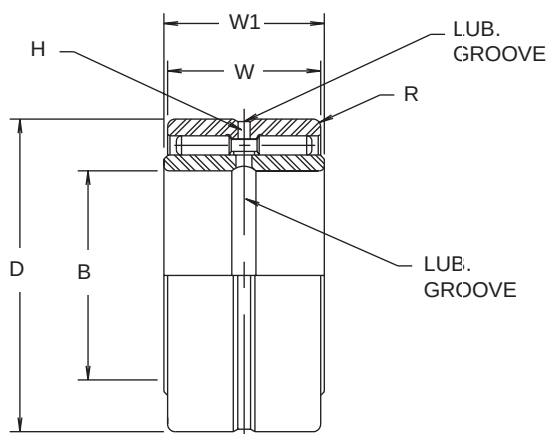
Suffix "RS" indicates single seal with lip turned out. Seal location would be intended primarily to help prevent entry of foreign material. Application is similar to that listed for "S" listings.



Suffix "SRS" indicates double seal with one lip turned in to retain lubricant and one turned out to help prevent entry of foreign material. Permits relubrication without displacing seal due to grease pressure.

Outer ring and roller assembly with separable inner ring

Outer ring and roller assemblies and associated inner rings are packed and shipped separately. For a complete bearing, specify both outer and inner numbers desired.

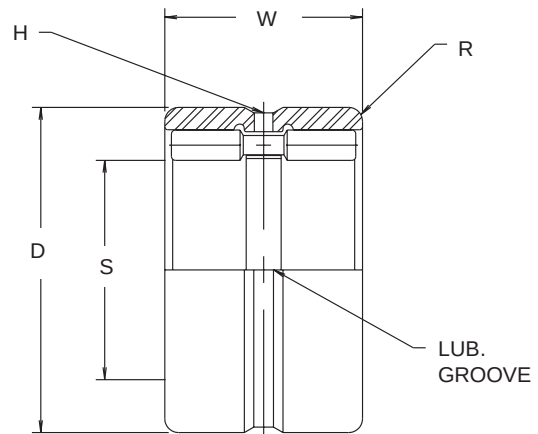


McGILL NUMBER outer ring & roller assy.	McGILL NUMBER inner ring only	ABMA NUMBER	B		D		W	W1	H	R	SHAFT DIA.				HSG. BORE DIA.				STATIC LOAD RATING (LBS.)	BASIC DYNAMIC RATING (LBS.)
			+ .0000	TOL.	+ .0000	TOL.	+ .00- 0 -.005	+ .00- 0 -.005	HOLE DIA.	MAX. FILLET for shaft & hsg.	ROTAT. SHAFT	TOL. + .0000- 0	STAT. SHAFT	TOL. + .0000	ROTAT. HSG.	TOL. + .0000	STAT. HSG.	TOL. + .0000		
GR-10-N	MI-6-N	6NAS1218	.3750	-.0004	1.1250	-.0005	.750	.760	5/64	.025	.3755	-.0005	.3747	-.0005	1.1247	-.0007	1.1257	-.0007	6400	3400
GR-10-N	MI-7-N	7NAS1218	.4375		1.1250		.750	.760	5/64	.025	.4380		.4372		1.1247		1.1257		6400	3400
GR-10	MI-6	6NAS1618	.3750		1.1250		1.000	1.010	5/64	.025	.3755		.3747		1.1247		1.1257		9100	4700
GR-12-N	MI-8-N	8NAS1220	.5000	-.0004	1.2500	-.0005	.750	.760	5/64	.040	.5005	-.0005	.4997	-.0005	1.2497	-.0007	1.2507	-.0007	7200	3700
GR-12-N	MI-9-N	9NAS1220	.5625		1.2500		.750	.760	5/64	.040	.5630		.5623		1.2497		1.2507		7200	3700
GR-12	MI-8	8NAS1620	.5000		1.2500		1.000	1.010	5/64	.040	.5005		.4997		1.2497		1.2507		10900	5100
GR-14-N	MI-10-N	10NAS1222	.6250	-.0004	1.3750	-.0005	.750	.760	5/64	.040	.6255	-.0005	.6247	-.0005	1.3747	-.0007	1.3757	-.0007	8400	4150
GR-14-N	MI-11-N	11NAS1222	.6875		1.3750		.750	.760	5/64	.040	.6880		.6872		1.3747		1.3757		8400	4150
GR-14	MI-10	10NAS1622	.6250		1.3750		1.000	1.010	5/64	.040	.6255		.6247		1.3747		1.3757		12800	5700
GR-16-N	MI-12-N	12NAS1224	.7500	-.0005	1.5000	-.0006	.750	.760	5/64	.040	.7505	-.0005	.7497	-.0005	1.4997	-.0007	1.5007	-.0007	9600	4350
GR-16-N	MI-13-N	13NAS1224	.8125		1.5000		.750	.760	5/64	.040	.8129		.8121		1.4997		1.5007		9600	4350
GR-16	MI-12	12NAS1624	.7500		1.5000		1.000	1.010	5/64	.040	.7505		.7497		1.4997		1.5007		14500	6050
GR-16	MI-13	13NAS1624	.8125	-.0005	1.5000	-.0006	1.000	1.010	5/64	.040	.8129	-.0005	.8121	-.0005	1.4997	-.0007	1.5007	-.0007	14500	6050
GR-18-N	MI-14-N	14NAS1626	.8750		1.6250		1.000	1.010	3/32	.040	.8754		.8746		1.6247		1.6257		15200	6250
GR-18-N	MI-15-N	15NAS1626	.9375		1.6250		1.000	1.010	3/32	.040	.9379		.9371		1.6247		1.6257		15200	6250
GR-18	MI-14	14NAS2026	.8750	-.0005	1.6250	-.0006	1.250	1.260	3/32	.040	.8754	-.0005	.8746	-.0005	1.6247	-.0007	1.6257	-.0007	20900	7900
GR-18	MI-15	15NAS2026	.9375		1.6250		1.250	1.260	3/32	.040	.9379		.9371		1.6247		1.6257		20900	7900
GR-20-N	MI-16-N	16NAS1628	1.0000		1.7500	-.0005	1.000	1.010	3/32	.040	1.0004	-.0005	.9996	-.0005	1.7497	-.0007	1.7507	-.0007	17000	6500
GR-20	MI-16	16NAS2028	1.0000	-.0005	1.7500		1.250	1.260	3/32	.040	1.0004		.9996		1.7497		1.7507		23100	8300
GR-22-N	MI-18-N	18NAS1630	1.1250		1.8750		1.000	1.010	3/32	.040	1.1255	-.0005	1.1246	-.0005	1.8747	-.0007	1.8757	-.0007	18600	7100
GR-22	MI-17	17NAS2030	1.0625	-.0005	1.8750	-.0006	1.250	1.260	3/32	.040	1.0630		1.0621		1.8747		1.8757		25500	9050
GR-22	MI-18	18NAS2030	1.1250		1.8750		1.250	1.260	3/32	.040	1.1255		1.1246		1.8747		1.8757		25500	9050
GR-24-N	MI-20-N	20NAS1633	1.2500	-.0005	2.0625	-.0006	1.000	1.010	3/32	.060	1.2505	-.0005	1.2496	-.0005	2.0621	-.0007	2.0632	-.0007	20200	7150
GR-24	MI-19	19NAS2033	1.1875		2.0625		1.250	1.260	3/32	.060	1.1880		1.1871		2.0621		2.0632		27800	9150
GR-24	MI-20	20NAS2033	1.2500		2.0625		1.250	1.260	3/32	.060	1.2505		1.2496		2.0621		2.0632		27800	9150
GR-26-N	MI-21-N	21NAS1635	1.3125	-.0006	2.1875	-.0007	1.000	1.010	3/32	.060	1.3130	-.0005	1.3121	-.0005	2.1871	-.0007	2.1882	-.0007	21700	7500
GR-26	MI-21	21NAS2035	1.3125		2.1875		1.250	1.260	3/32	.060	1.3130		1.3121		2.1871		2.1882		29800	9600
GR-26	MI-22-4S	21NAS2035	1.3750		2.1875		1.250	1.260	3/32	.060	1.3755		1.3746		2.1871		2.1882		29800	9600
GR-28	MI-22	22NAS2037	1.3750	-.0006	2.3125	-.0007	1.250	1.260	3/32	.060	1.3755	-.0005	1.3746	-.0005	2.3121	-.0007	2.3132	-.0007	32100	9850
GR-28	MI-23	23NAS2037	1.4375		2.3125		1.250	1.260	3/32	.060	1.4380		1.4371		2.3121		2.3132		32100	9850
GR-28	MI-24	24NAS2037	1.5000		2.3125		1.250	1.260	3/32	.060	1.5005		1.4996		2.3121		2.3132		32100	9850

McGILL NUMBER outer ring & roller assy.	McGILL NUMBER inner ring only	ABMA NUMBER	B		D		W	W1	H	R	SHAFT DIA.				HSG. BORE DIA.				STATIC LOAD RATING (LBS.)	BASIC DYNAMIC RATING (LBS.)
			+.0000	TOL.	+.0000	TOL.	+.000 -.005	+.000 -.005	HOLE DIA.	MAX. FILLET for shaft & hsg.	ROTAT. SHAFT	TOL. +.0000	STAT. SHAFT	TOL. +.0000	ROTAT. HSG.	TOL. +.0000	STAT. HSG.	TOL. +.0000		
GR-30	MI-25-4S	25NAS2039	1.5625		2.4375		1.250	1.260	3/32	.060	1.5630		1.5621		2.4371		2.4382		34600	10450
GR-32-N	MI-26-N	26NAS1641	1.6250		2.5625		1.000	1.010	3/32	.060	1.6255		1.6246		2.5621		2.5632		26700	8000
GR-32	MI-25	25NAS2041	1.5625		2.5625		1.250	1.260	3/32	.060	1.5630		1.5621		2.5621		2.5632		36700	10250
GR-32	MI-26	26NAS2041	1.6250		2.5625		1.250	1.260	3/32	.060	1.6255		1.6246		2.5621		2.5632		36700	10250
GR-32	MI-27	27NAS2041	1.6875		2.5625		1.250	1.260	3/32	.060	1.6880		1.6871		2.5621		2.5632		36700	10250
GR-36-N	MI-28-N	28NAS2448	1.7500	-.0005	3.0000	-.0006	1.500	1.510	1/8	.060	1.7505	-.0005	1.7496	-.0005	2.9996	-.0007	3.0007	-.0007	49100	15250
GR-36	MI-28	28NAS2848	1.7500		3.0000		1.750	1.760	1/8	.060	1.7505		1.7496		2.9996		3.0007		60200	18450
GR-36	MI-30	30NAS2848	1.8750		3.0000		1.750	1.760	1/8	.060	1.8755		1.8746		2.9996		3.0007		60200	18450
GR-40-N	MI-32-N	32NAS2452	2.0000		3.2500		1.500	1.510	1/8	.080	2.0005		1.9996		3.2496		3.2507		54500	16200
GR-40	MI-31	31NAS2852	1.9375		3.2500		1.750	1.760	1/8	.080	1.9380		1.9371		3.2496		3.2507		66800	19800
GR-40	MI-32	32NAS2852	2.0000		3.2500		1.750	1.760	1/8	.080	2.0005		1.9996		3.2496		3.2507		66800	19800
GR-40	MI-34	34NAS2852	2.1250		3.2500		1.750	1.760	1/8	.080	2.1258		2.1247		3.2496		3.2507		66800	19800
GR-44-N	MI-36-N	36NAS2546	2.2500		3.5000		1.500	1.510	1/8	.080	2.2508		2.2497		3.4995		3.5008		59900	16800
GR-44	MI-35	35NAS2856	2.1875		3.5000		1.750	1.760	1/8	.080	2.1883		2.1872		3.4995		3.5008		73400	20350
GR-44	MI-36	36NAS2856	2.2500		3.5000		1.750	1.760	1/8	.080	2.2508		2.2497		3.4995		3.5008		73400	20350
GR-48-N	MI-40-N	40NAS2460	2.5000		3.7500		1.500	1.510	1/8	.080	2.5008		2.4997		3.7495		3.7508		65400	17350
GR-48	MI-38	38NAS2860	2.3750		3.7500		1.750	1.760	1/8	.080	2.3758		2.3747		3.7495		3.7508		80200	20600
GR-48	MI-39	39NAS2860	2.4375		3.7500		1.750	1.760	1/8	.080	2.4383		2.4372		3.7495		3.7508		80200	20600
GR-48	MI-40	40NAS2860	2.5000		3.7500		1.750	1.760	1/8	.080	2.5008		2.4997		3.7495		3.7508		80200	20600
GR-52	MI-42	42NAS2868	2.6250		4.2500		1.750	1.760	3/16	.080	2.6258		2.6247		4.2495	-.0010	4.2508	-.0010	80100	23950
GR-52	MI-44	44NAS2868	2.7500		4.2500		1.750	1.760	3/16	.080	2.7508		2.7497		4.2495		4.2508		80100	23950
GR-56-N	MI-48-N	48NAS2872	3.0000		4.5000		1.750	1.760	3/16	.080	3.0008		2.9997		4.4995		4.5008		86500	25100
GR-56	MI-46	46NAS3272	2.8750		4.5000		2.000	2.010	3/16	.080	2.8758		2.8747		4.4995		4.5008		104000	28900
GR-56	MI-47	47NAS3272	2.9375		4.5000		2.000	2.010	3/16	.080	2.9383		2.9372		4.4995		4.5008		104000	28900
GR-56	MI-48	48NAS3272	3.0000		4.5000		2.000	2.010	3/16	.080	3.0008		2.9997		4.4995		4.5008		104000	28900
GR-60	MI-50	50NAS3276	3.1250		4.7500		2.000	2.010	3/16	.100	3.1260		3.1246		4.7495		4.7508		111000	29300
GR-60	MI-52	52NAS3276	3.2500		4.7500		2.000	2.010	3/16	.100	3.2510		3.2496		4.7495		4.7508		111000	29300
GR-64	MI-54	54NAS3280	3.3750		5.0000		2.000	2.010	3/16	.100	3.3758		3.3746		4.9999		5.0011		119000	30100
GR-64	MI-56	56NAS3280	3.5000		5.0000		2.000	2.010	3/16	.100	3.5008		3.4996		4.9999		5.0011		119000	30100
GR-68	MI-58	58NAS3284	3.6250		5.2500		2.000	2.010	3/16	.100	3.6258		3.6246		5.2499		5.2511		126000	31500
GR-68	MI-60	60NAS3284	3.7500		5.2500		2.000	2.010	3/16	.100	3.7508		3.7496		5.2499		5.2511		126000	31500
GR-72	MI-62	62NAS3696	3.8750		6.0000		2.250	2.260	1/4	.100	3.8758		3.8746		5.9999		6.0011		145000	43400
GR-80	MI-64	64NAS36104	4.0000		6.5000		2.250	2.260	1/4	.100	4.0008		3.9996		6.4999		6.5011		161000	48800
GR-80	MI-68	68NAS36104	4.2500		6.5000		2.250	2.260	1/4	.100	4.2508		4.2496		6.4999		6.5011		161000	48800
GR-88-N	MI-72-N	72NAS40112	4.5000		7.0000		2.500	2.515	1/4	.100	4.5008		4.4996		6.9999	-.0015	7.0011	-.0015	171000	60700
GR-88	MI-72	72NAS48112	4.5000		7.0000		3.000	3.015	1/4	.100	4.5008		4.4996		6.9999		7.0011		205000	65000
GR-96-N	MI-80-N	80NAS40120	5.0000		7.5000		2.500	2.515	1/4	.120	5.0010		4.9995		7.4998		7.5011		223000	65700
GR-96	MI-80	80NAS48120	5.0000		7.5000		3.000	3.015	1/4	.120	5.0010		4.9995		7.4998		7.5011		283000	71400
GR-104-N	MI-88-N	88NAS40128	5.5000		8.0000		2.500	2.515	1/4	.120	5.5010		5.4995		7.9998		8.0011		242000	68900
GR-104	MI-88	88NAS48128	5.5000		8.0000		3.000	3.015	1/4	.120	5.5010		5.4995		7.9998		8.0011		308000	75000
GR-116	MI-96	96NAS48146	6.0000		9.1250		3.000	3.015	1/4	.120	6.0012		5.9995		9.1248		9.1261		332000	83900
GR-124	MI-104	104NAS48154	6.5000		9.6250		3.000	3.015	1/4	.120	6.5012		6.4995		9.6250		9.6265		355000	86200
GR-132	MI-112	112NAS48162	7.0000		10.1250		3.000	3.015	1/4	.120	7.0012	-.0012	6.9995	-.0012	10.1250	-.0020	10.1265	-.0020	378000	88700
GR-140	MI-120	120NAS48170	7.5000		10.6250		3.000	3.015	1/4	.160	7.5010		7.4995		10.6250		10.6265		401000	91500
GR-148	MI-128	128NAS48170	8.0000		11.1250		3.000	3.015	1/4	.160	8.0010		7.9995		11.1250		11.1265		423000	93500

Outer ring and roller assembly without separable inner ring

The outer ring and roller assemblies (GR) shown in this table are for use without inner rings on a ground shaft for which a minimum hardness of 58 Rockwell "C" scale is recommended.



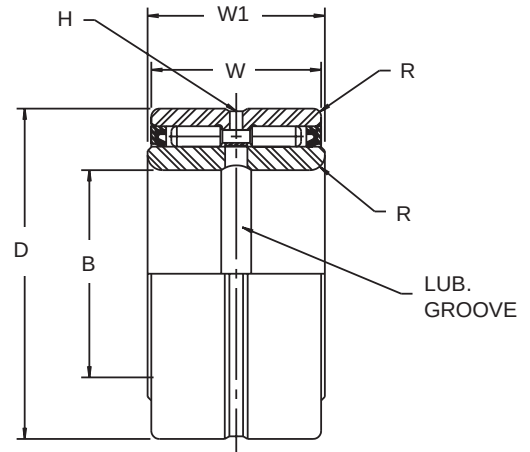
McGILL NUMBER outer ring & roller assy.	ABMA NUMBER	S SHAFT DIA.		D		W	H	R	HSG. BORE DIA.				STATIC LOAD RATING (LBS.)	BASIC DYNAMIC RATING (LBS.)
		+0.000	TOL.	+0.000	TOL.	+0.000 -0.005	HOLE DIA.	MAX. FILLET FOR HOUSING	ROTATING HOUSING	TOL. +0.000	STATIONARY HOUSING	TOL. +0.000		
GR-8-N	8NAR1216	.5000	-.0005	1.0000	-.0005	.750	5/64	.025	.9997	-.0007	1.0007	-.0007	4500	2600
GR-10-N	10NAR1218	.6250		1.1250		.750	5/64	.025	1.1247		1.1257		6400	3400
GR-10	10NAR1618					1.000							9100	4700
GR-12-N	12NAR1220	.7500		1.2500		.750	5/64	.040	1.2497		1.2507		7200	3700
GR-12	12NAR1620					1.000							10900	5100
GR-14-N	14NAR1222	.8750		1.3750		.750	5/64	.040	1.3747		1.3757		8400	4150
GR-14	14NAR1622					1.000							12800	5700
GR-16-N	16NAR1224	1.0000		1.5000		.750	5/64	.040	1.4997		1.5007		9600	4350
GR-16	16NAR1624					1.000							14500	6050
GR-18-N	18NAR1626	1.1250		1.6250		1.000	3/32	.040	1.6247		1.6257		15200	6250
GR-18	18NAR2026					1.250							20900	7900
GR-20-N	20NAR1628	1.2500		1.7500		1.000	3/32	.040	1.7497		1.7507		17000	6500
GR-20	20NAR2028					1.250							23100	8300
GR-22-N	22NAR1630	1.3750		1.8750		1.000	3/32	.040	1.8747	-.0007	1.8757	-.0007	18600	7100
GR-22	22NAR2030					1.250							25500	9050
GR-24-N	24NAR1633	1.5000		2.0625	-.0006	1.000	3/32	.060	2.0621		2.0632		20200	7150
GR-24	24NAR2033					1.250							27800	9150
GR-26-N	26NAR1635	1.6250		2.1875		1.000	3/32	.060	2.1871		2.1882		21700	7500
GR-26	26NAR2035					1.250							29800	9600
GR-28	28NAR2037	1.7500		2.3125		1.250	3/32	.060	2.3121		2.3132		32100	9850
GR-30	30NAR2039	1.8750		2.4375		1.250	3/32	.060	2.4371		2.4382		34600	10450
GR-32-N	32NAR1641	2.0000		2.5625		1.000	3/32	.060	2.5621		2.5632		26700	8000
GR-32	32NAR2041					1.250							36700	10250
GR-36-N	36NAR2448	2.2500		3.0000		1.500	1/8	.060	2.9996		3.0007		49100	15250
GR-36	36NAR2848					1.750							60200	18450
GR-40-N	40NAR2452	2.5000		3.2500		1.500	1/8	.080	3.2496		3.2507		54500	16200
GR-40	40NAR2852					1.750							66800	19800
GR-44-N	44NAR2456	2.7500		3.5000	-.0008	1.500	1/8	.080	3.4995		3.5008	-.0010	59900	16800
GR-44	44NAR2856					1.750							73400	20350
GR-48-N	48NAR2460	3.0000		3.7500		1.500	1/8	.080	3.7495		3.7508		65400	17350
GR-48	48NAR2860					1.750							80200	20600
GR-52	52NAR2868	3.2500		4.2500		1.750	3/16	.080	4.2495	-.0010	4.2508		80100	23950
GR-56-N	56NAR2872	3.5000		4.5000		1.750	3/16	.080	4.4995		4.5008		86500	25100
GR-56	56NAR3272					2.000							104000	28900
GR-60	60NAR3276	3.7500		4.7500		2.000	3/16	.100	4.7495		4.7508		111000	29300
GR-64	64NAR3280	4.0000	-.0007	5.0000	-.0010	2.000	3/16	.100	4.9999		5.0011		119000	30900
GR-68	68NAR3284	4.2500		5.2500		2.000	3/16	.100	5.2499		5.2511		126000	31500
GR-72	72NAR3696	4.5000		6.0000		2.250	1/4	.100	5.9999		6.0011		145000	43400
GR-80	80NAR36104	5.0000		6.5000		2.250	1/4	.100	6.4999		6.5011		161000	48800
GR-88-N	88NAR40112	5.5000		7.0000		2.500	1/4	.100	6.9999	-.0015	7.0011	-.0015	171000	60700
GR-88	88NAR48112					3.000							205000	65000
GR-96-N	96NAR40120	6.0000		7.5000	-.0012	2.500	1/4	.120	7.4998		7.5011		223000	65700
GR-96	96NAR48120					3.000							283000	71400
GR-104-N	104NAR40128	6.5000		8.0000		2.500	1/4	.120	7.9998		8.0011		242000	68900
GR-104	104NAR48128					3.000							308000	75000
GR-116	116NAR48146	7.2500		9.1250		3.000	1/4	.120	9.1248		9.1261		332000	83900
GR-124	124NAR48154	7.7500	-.0010	9.6250		3.000	1/4	.120	9.6250	-.0020	9.6265	-.0020	355000	86200
GR-132	132NAR48162	8.2500		10.1250		3.000	1/4	.120	10.1250		10.1265		378000	88700
GR-140	140NAR48170	8.7500		10.6250	-.0014	3.000	1/4	.160	10.6250		10.6265		401000	91500
GR-148	148NAR48178	9.2500		11.1250		3.000	1/4	.160	11.1250		11.1265		423000	93500

NOTE: Some larger sizes not available from stock. Consult McGill Customer Service for availability.

Outer ring and roller assembly with separate inner ring

Available in 5 seal combinations (see page 75 also)

For a complete bearing, specify both outer and inner, as each is packed and shipped separately. Consult McGill Engineering Department for additional information on GUIDEROL® bearing sizes not listed as available with seals. The suffix "SS" indicates double seals with lips turned in (illustrated at right). This construction is most common and is intended primarily for lubrication retention. For other seal combinations, see page 75.



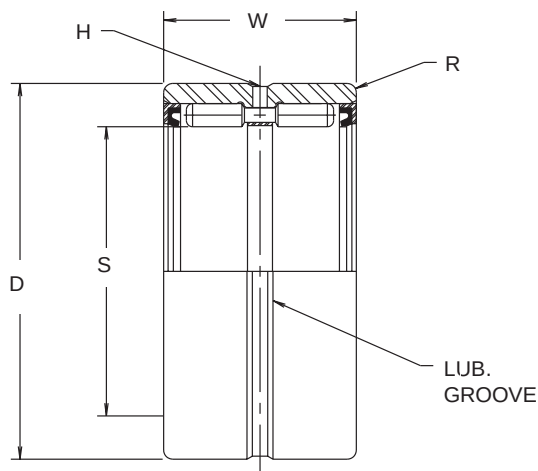
McGILL NUMBER outer ring & roller assy.	McGILL NUMBER inner ring only	B		D*		W	W1	H	R	SHAFT DIA.				HSG. BORE DIA.				STATIC LOAD RATING (LBS.)	BASIC DYNAMIC RATING (LBS.)
		+ .0000	TOL.	+ .0000	TOL.	+ .000 - .005	+ .000 - .005	HOLE DIA.	MAX. FILLET for shaft & hsg.	ROTAT. SHAFT	TOL. + .0000	STAT. SHAFT	TOL. + .0000	ROTAT. HSG.	TOL. + .0000	STAT. HSG.	TOL. + .0000		
GR-10-SS	MI-6	.3750	-.0004	1.1250	-.0005	1.000	1.010	5/64	.025	.3755	-.0005	.3747	-.0005	1.1247	-.0007	1.1257	-.0007	6400	3400
GR-12-SS	MI-8	.5000		1.2500		1.000	1.010	5/64	.040	.5005		.4997		1.2497		1.2497		7200	3700
GR-14-SS	MI-10	.6250		1.3750		1.000	1.010	5/64	.040	.6255		.6247		1.3747		1.3757		8400	4150
GR-16-SS	MI-12	.7500	-.0005	1.5000	-.0005	1.000	1.010	5/64	.040	.7505	-.0005	.7497	-.0005	1.4997	-.0007	1.5007	-.0007	9600	4350
GR-18-SS	MI-13	.8125		1.5000		1.000	1.010	5/64	.040	.8129		.8121		1.4997		1.5007		9600	4350
GR-18-SS	MI-14	.8750		1.6250		1.250	1.260	3/32	.040	.8754		.8746		1.6247		1.6257		15200	6250
GR-20-SS	MI-15	.9375	-.0005	1.6250	-.0005	1.250	1.260	3/32	.040	.9379	-.0005	.9371	-.0005	1.6247	-.0007	1.6257	-.0007	15200	6250
GR-20-SS	MI-16	1.0000		1.7500		1.250	1.260	3/32	.040	1.0004		.9996		1.7497		1.7507		17000	6500
GR-22-SS	MI-17	1.0625		1.8750		1.250	1.260	3/32	.040	1.0630		1.0621		1.8747		1.8757		18600	7100
GR-22-SS	MI-18	1.1250	-.0005	1.8750	-.0005	1.250	1.260	3/32	.040	1.1255	-.0005	1.1246	-.0005	1.8747	-.0007	1.8757	-.0007	18600	7100
GR-24-SS	MI-19	1.1875		2.0625		1.250	1.260	3/32	.060	1.1880		1.1871		2.0621		2.0632		20200	7150
GR-24-SS	MI-20	1.2500		2.0625		1.250	1.260	3/32	.060	1.2505		1.2496		2.0621		2.0632		20200	7150
GR-26-SS	MI-21	1.3125	-.0005	2.1875	-.0006	1.250	1.260	3/32	.060	1.3130	-.0008	1.3121	-.0008	2.1871	-.0010	2.1882	-.0010	21700	7500
GR-26-SS	MI-22-4S	1.3750		2.1875		1.250	1.260	3/32	.060	1.3755		1.3746		2.1871		2.1882		21700	7500
GR-28-SS	MI-22	1.3750		2.3125		1.250	1.260	3/32	.060	1.3755		1.3746		2.3121		2.3132		23300	7750
GR-28-SS	MI-23	1.4375	-.0006	2.3125	-.0006	1.250	1.260	3/32	.060	1.4380	-.0008	1.4371	-.0008	2.3121	-.0010	2.3132	-.0010	23300	7750
GR-28-SS	MI-24	1.5000		2.3125		1.250	1.260	3/32	.060	1.5005		1.4996		2.3121		2.3132		23300	7750
GR-30-SS	MI-25-4S	1.5625		2.4375		1.250	1.260	3/32	.060	1.5630		1.5621		2.4371		2.4382		25200	8150
GR-32-SS	MI-25	1.5625	-.0006	2.5625	-.0006	1.250	1.260	3/32	.060	1.5630	-.0008	1.5621	-.0008	2.5621	-.0010	2.5632	-.0010	26700	8000
GR-32-SS	MI-26	1.6250		2.5625		1.250	1.260	3/32	.060	1.6255		1.6246		2.5621		2.5632		26700	8000
GR-32-SS	MI-27	1.6875		2.5625		1.250	1.260	3/32	.060	1.6880		1.6871		2.5621		2.5632		26700	8000
GR-36-SS	MI-28	1.7500	-.0006	3.0000	-.0008	1.750	1.760	1/8	.060	1.7505	-.0010	1.7496	-.0010	2.9996	-.0015	3.0007	-.0015	49100	15250
GR-36-SS	MI-30	1.8750		3.0000		1.750	1.760	1/8	.060	1.8755		1.8746		2.9996		3.0007		49100	15250
GR-40-SS	MI-31	1.9375		3.2500		1.750	1.760	1/8	.080	1.9380		1.9371		3.2496		3.2507		54500	16200
GR-40-SS	MI-32	2.0000	-.0006	3.2500	-.0008	1.750	1.760	1/8	.080	2.0005	-.0010	1.9996	-.0010	3.2496	-.0015	3.2507	-.0015	54500	16200
GR-40-SS	MI-34	2.1250		3.2500		1.750	1.760	1/8	.080	2.1258		2.1247		3.2496		3.2507		54500	16200
GR-44-SS	MI-35	2.1875		3.5000		1.750	1.760	1/8	.080	2.1883		1.1872		3.4995		3.5008		59900	16800
GR-44-SS	MI-36	2.2500	-.0006	3.5000	-.0008	1.750	1.760	1/8	.080	2.2508	-.0010	2.2497	-.0010	3.4995	-.0015	3.5008	-.0015	59900	16800
GR-48-SS	MI-38	2.3750		3.7500		1.750	1.760	1/8	.080	2.3758		2.3747		3.7495		3.7508		65400	17350
GR-48-SS	MI-39	2.4375		3.7500		1.750	1.760	1/8	.080	2.4383		2.4372		3.7495		3.7508		65400	17350
GR-48-SS	MI-40	2.5000	-.0006	3.7500	-.0008	1.750	1.760	1/8	.080	2.5008	-.0010	2.4997	-.0010	3.7495	-.0015	3.7508	-.0015	65400	17350
GR-52-SS	MI-42	2.6250		4.2500		1.750	1.760	3/16	.080	2.6258		2.6247		4.2495		4.2508		63800	20050
GR-52-SS	MI-44	2.7500		4.2500		1.750	1.760	3/16	.080	2.7508		2.7497		4.2495		4.2508		63800	20050
GR-56-SS	MI-46	2.8750	-.0006	4.5000	-.0008	2.000	2.010	3/16	.080	2.8758	-.0010	2.8747	-.0010	4.4995	-.0015	4.5008	-.0015	86500	25100
GR-56-SS	MI-47	2.9375		4.5000		2.000	2.010	3/16	.080	2.9383		2.9372		4.4995		4.5008		86500	25100
GR-56-SS	MI-48	3.0000		4.5000		2.000	2.010	3/16	.080	3.0008		2.9997		4.4995		4.5008		86500	25100
GR-60-SS	MI-50	3.1250	-.0006	4.7500	-.0008	2.000	2.010	3/16	.100	3.1260	-.0010	3.1246	-.0010	4.7495	-.0015	4.7508	-.0015	92300	25450
GR-60-SS	MI-52	3.2500		4.7500		2.000	2.010	3/16	.100	3.2510		3.2496		4.7495		4.7508		92300	25450
GR-64-SS	MI-54	3.3750		5.0000		2.000	2.010	3/16	.100	3.3758		3.3746		4.9999		5.0011		98800	26750
GR-64-SS	MI-56	3.5000	-.0008	5.0000	-.0010	2.000	2.010	3/16	.100	3.5008	-.0010	3.4996	-.0010	4.9999	-.0015	5.0011	-.0015	98800	26750
GR-68-SS	MI-58	3.6250		5.2500		2.000	2.010	3/16	.100	3.6258		3.6246		5.2499		5.2511		104000	27400
GR-68-SS	MI-60	3.7500		5.2500		2.000	2.010	3/16	.100	3.7508		3.7496		5.2499		5.2511		104000	27400

* This dimension may be slightly oversize due to seal press fit.

Outer ring and roller assembly without separable inner ring

Available in 5 seal combinations (see page 75 also)

The outer ring and roller assemblies are for use without inner rings on a ground shaft for which a minimum hardness of 58 Rockwell "C" scale is recommended. The suffix "SS" indicates double seals with lips turned in (illustrated at right). This construction is most common and is intended primarily for lubrication retention. For other seal combinations, see page 75.



McGILL NUMBER outer ring & roller assy.	S SHAFT DIA.		D*		W	H	R	HSG. BORE DIA.				STATIC LOAD RATING (LBS.)	BASIC DYNAMIC RATING (LBS.)
	+ .0000	TOL.	+ .0000	TOL.	+ .000 - .005	HOLE DIA.	MAX. FILLET FOR HOUSING	ROTATING HOUSING	TOL. + .0000	STATIONARY HOUSING	TOL. + .0000		
GR-10-SS	.6250	-.0005	1.1250	-.0005	1.000	5/64	.025	1.1247	-.0007	1.1257	-.0007	6400	3400
GR-12-SS	.7500		1.2500		1.000	5/64	.040	1.2497		1.2507		7200	3700
GR-14-SS	.8750		1.3750		1.000	5/64	.040	1.3747		1.3757		8400	4150
GR-16-SS	1.0000		1.5000		1.000	5/64	.040	1.4997		1.5007		9600	4350
GR-18-SS	1.1250		1.6250		1.250	3/32	.040	1.6247		1.6257		15200	6250
GR-20-SS	1.2500		1.7500		1.250	3/32	.040	1.7497		1.7507		17000	6500
GR-22-SS	1.3750		1.8750		1.250	3/32	.040	1.8747		1.8757		18600	7100
GR-24-SS	1.5000		2.0625	-.0006	1.250	3/32	.060	2.0621		2.0632		20200	7150
GR-26-SS	1.6250		2.1875		1.250	3/32	.060	2.1871		2.1882		21700	7500
GR-28-SS	1.7500		2.3125		1.250	3/32	.060	2.3121		2.3132		23300	7750
GR-30-SS	1.8750	-.0007	2.4375	-.0008	1.250	3/32	.060	2.4371	-.0010	2.4382	-.0010	25200	8150
GR-32-SS	2.0000		2.5625		1.250	3/32	.060	2.5621		2.5632		26700	8000
GR-36-SS	2.2500		3.0000		1.750	1/8	.060	2.9996		3.0007		49100	15250
GR-40-SS	2.5000		3.2500		1.750	1/8	.080	3.2496		3.2507		54500	16200
GR-44-SS	2.7500		3.5000	-.0010	1.750	1/8	.080	3.4995		3.5008		59900	16800
GR-48-SS	3.0000		3.7500		1.750	1/8	.080	3.7495		3.7508		65400	17350
GR-52-SS	3.2500		4.2500		1.750	3/16	.080	4.2495		4.2508		63800	20050
GR-56-SS	3.5000		4.5000		2.000	3/16	.080	4.4995		4.5008		86500	25100
GR-60-SS	3.7500	-.0015	4.7500	-.0015	2.000	3/16	.100	4.7495		4.7508		92300	25450
GR-64-SS	4.0000		5.0000		2.000	3/16	.100	4.9999		5.0011		98800	26750
GR-68-SS	4.2500		5.2500		2.000	3/16	.100	5.2499		5.2511		104000	27400

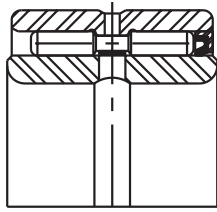
* This dimension may be slightly oversize due to seal press fit.

Seal operating information

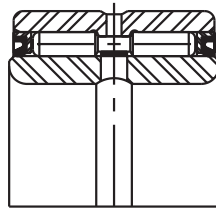
Maximum peripheral shaft speed should not exceed 1000 feet per minute. Maximum operation temperature should not exceed 250°F. constant, 300°F. intermittent. Provision for lead or radius should be made on shaft corner to facilitate assembly of sealed bearings of the RS or SRS configuration. Venting of relubrication pressure is required to avoid displacement of seals in the S or SS configuration.

Other seal combinations and suffixes

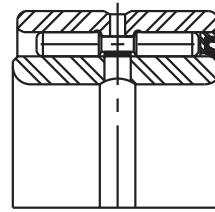
Depending on the type of sealing to be accomplished, the seals for the SG GUIDEROL® Bearing may be applied to the bearing with the lips turned in or out or in combination. With single and double sealed bearings, this means five methods are possible. The arrangements are identified by adding the proper suffix to the standard GUIDEROL® bearing number, as explained below.



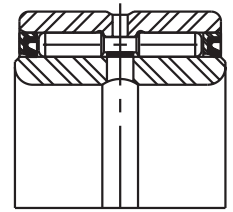
Suffix "S" indicates single seal with lip turned in. Normally, it would be used in conjunction with another sealed bearing on opposite end of shaft and would be intended for lubricant retention.



Suffix "RSS" is the designation for double-sealed bearing with both seal lips turned out. Primary function of "RSS" seals would be to help prevent entry of foreign material from either end.



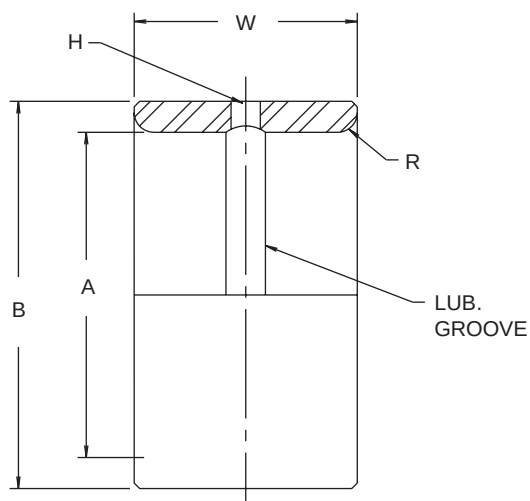
Suffix "RS" indicates single seal with lip turned out. Seal location would be intended primarily to help prevent entry of foreign material. Application is similar to that listed for "S" listings.



Suffix "SRS" indicates double seal with one lip turned in to retain lubricant and one turned out to help prevent entry of foreign material. Permits relubrication without displacing seal due to grease pressure.

MI INNER RACES

McGILL® MI series inner races, as shown in preceding pages with outer race and roller assemblies, are repeated below for convenience of application as hardened and ground steel bushings or sleeves. They are complete with radial oil holes and annular lubrication grooves. Inner races of special configurations and materials are available on special order to suit individual requirements.



McGILL INNER RING NUMBER	MILITARY STANDARD NUMBER	DIMENSIONS IN INCHES						
		A BORE DIA.		B INNER O.D.		W WIDTH +.000 -.005	H HOLE DIA.	R MAX. FILLET FOR SHAFT
		NOM.	TOL. +.0000	NOM.	TOL. +.0000			
MI-6		.3750	-.0004	.6245	-.0004	1.010	3/32	.025
MI-6-N	MS 51962-1	.3750	-.0004	.6245	-.0004	.760	3/32	.025
MI-7-N		.4375	-.0004	.6245	-.0004	.760	3/32	.025
MI-8	MS 51962-3	.5000	-.0004	.7493	-.0005	1.010	1/8	.040
MI-8-N	MS 51962-2	.5000	-.0004	.7493	-.0005	.760	1/8	.040
MI-9-N		.5625	-.0004	.7493	-.0005	.760	1/8	.040
MI-10		.6250	-.0004	.8743	-.0005	1.010	1/8	.040
MI-10-N	MS 51962-4	.6250	-.0004	.8743	-.0005	.760	1/8	.040
MI-11-N		.6875	-.0004	.8743	-.0005	.760	1/8	.040
MI-12		.7500	-.0004	.9993	-.0005	1.010	1/8	.040
MI-12-N	MS 51962-5	.7500	-.0004	.9993	-.0005	.760	1/8	.040
MI-13	MS 51962-7	.8125	-.0005	.9993	-.0005	1.010	1/8	.040
MI-13-N	MS 51962-6	.8125	-.0005	.9993	-.0005	.760	1/8	.040
MI-14		.8750	-.0005	1.1241	-.0005	1.260	1/8	.040
MI-14-N	MS 51962-8	.8750	-.0005	1.1241	-.0005	1.010	1/8	.040
MI-15		.9375	-.0005	1.1241	-.0005	1.260	1/8	.040
MI-15-N	MS 51962-9	.9375	-.0005	1.1241	-.0005	1.010	1/8	.040
MI-16	MS 51962-11	1.0000	-.0005	1.2491	-.0006	1.260	1/8	.040
MI-16-N	MS 51962-10	1.0000	-.0005	1.2491	-.0006	1.010	1/8	.040
MI-17		1.0625	-.0005	1.3741	-.0006	1.260	1/8	.040
MI-18	MS 51962-13	1.1250	-.0005	1.3741	-.0006	1.260	1/8	.040
MI-18-N	MS 51962-12	1.1250	-.0005	1.3741	-.0006	1.010	1/8	.040
MI-19	MS 51962-14	1.1875	-.0005	1.4990	-.0006	1.260	1/8	.060
MI-20	MS 51962-16	1.2500	-.0005	1.4990	-.0006	1.260	1/8	.060
MI-20-N	MS 51962-15	1.2500	-.0005	1.4990	-.0006	1.010	1/8	.060
MI-21		1.3125	-.0005	1.6240	-.0006	1.260	1/8	.060
MI-21-N	MS 51962-17	1.3125	-.0005	1.6240	-.0006	1.010	1/8	.060

McGILL INNER RING NUMBER	MILITARY STANDARD NUMBER	DIMENSIONS IN INCHES						
		A BORE DIA.		B INNER O.D.		W WIDTH +.000 -.005	H HOLE DIA.	R MAX. FILLET FOR SHAFT
		NOM.	TOL. +.0000	NOM.	TOL. +.0000			
MI-22	MS 51962-19	1.3750	-.0005	1.7490	-.0006	1.260	1/8	.060
MI-22-4S	MS 51962-18	1.3750	-.0005	1.6240	-.0006	1.260	1/8	.060
MI-23	MS 51962-20	1.4375	-.0005	1.7490	-.0006	1.260	1/8	.060
MI-24	MS 51962-22	1.5000	-.0005	1.7490	-.0006	1.260	1/8	.060
MI-24-N	MS 51962-21	1.5000	-.0005	1.7490	-.0006	1.010	1/8	.060
MI-25		1.5625	-.0005	1.9989	-.0007	1.260	1/8	.060
MI-25-4S		1.5625	-.0005	1.8740	-.0006	1.260	1/8	.060
MI-26	MS 51962-23	1.6250	-.0005	1.9989	-.0007	1.260	1/8	.060
MI-26-2S		1.6250	-.0005	1.9364	-.0007	1.260	1/8	.060
MI-26-N		1.6250	-.0005	1.9989	-.0007	1.010	1/8	.060
MI-27		1.6875	-.0005	1.9989	-.0007	1.260	1/8	.060
MI-28	MS 51962-25	1.7500	-.0005	2.2489	-.0007	1.760	3/16	.060
MI-28-N	MS 51962-24	1.7500	-.0005	2.2489	-.0007	1.510	3/16	.060
MI-30		1.8750	-.0005	2.2489	-.0007	1.760	3/16	.060
MI-31	MS 51962-26	1.9375	-.0005	2.4989	-.0007	1.760	3/16	.080
MI-32		2.0000	-.0005	2.4989	-.0007	1.760	3/16	.080
MI-32-N	MS 51962-27	2.0000	-.0005	2.4989	-.0007	1.510	3/16	.080
MI-34		2.1250	-.0006	2.4989	-.0007	1.760	3/16	.080
MI-35	MS 51962-28	2.1875	-.0006	2.7489	-.0007	1.760	3/16	.080
MI-36		2.2500	-.0006	2.7489	-.0007	1.760	3/16	.080
MI-36-N	MS 51962-29	2.2500	-.0006	2.7489	-.0007	1.510	3/16	.080
MI-38	MS 51962-30	2.3750	-.0006	2.9989	-.0007	1.760	3/16	.080
MI-39		2.4375	-.0006	2.9989	-.0007	1.760	3/16	.080
MI-40		2.5000	-.0006	2.9989	-.0007	1.760	3/16	.080
MI-40-N	MS 51962-31	2.5000	-.0006	2.9989	-.0007	1.510	3/16	.080
MI-42		2.6250	-.0006	3.2487	-.0009	1.760	3/16	.080
MI-44	MS 51962-32	2.7500	-.0006	3.2487	-.0009	1.760	3/16	.080
MI-46		2.8750	-.0006	3.4987	-.0009	2.010	1/4	.080
MI-47	MS 51962-34	2.9375	-.0006	3.4987	-.0009	2.010	1/4	.080
MI-48		3.0000	-.0006	3.4987	-.0009	2.010	1/4	.080
MI-48-N		3.0000	-.0006	3.4987	-.0009	1.760	1/4	.080
MI-50	MS 51962-35	3.1250	-.0006	3.7487	-.0009	2.010	1/4	.100
MI-52	MS 51962-36	3.2500	-.0006	3.7487	-.0009	2.010	1/4	.100
MI-54	MS 51962-38	3.3750	-.0008	3.9985	-.0009	2.010	1/4	.100
MI-56		3.5000	-.0008	3.9985	-.0009	2.010	1/4	.100
MI-58		3.6250	-.0008	4.2485	-.0009	2.010	1/4	.100
MI-60	MS 51962-40	3.7500	-.0008	4.2485	-.0009	2.010	1/4	.100
MI-62		3.8750	-.0008	4.4985	-.0009	2.260	1/4	.100
MI-64		4.0000	-.0008	4.9985	-.0010	2.260	1/4	.100
MI-68		4.2500	-.0008	4.9985	-.0010	2.260	1/4	.100
MI-72	MS 51962-44	4.5000	-.0008	5.4985	-.0010	3.015	1/4	.100
MI-72-N	MS 51962-43	4.5000	-.0008	5.4985	-.0010	2.515	1/4	.100
MI-80	MS 51962-47	5.0000	-.0010	5.9983	-.0010	3.015	5/16	.120
MI-80-N	MS 51962-46	5.0000	-.0010	5.9983	-.0010	2.515	5/16	.120
MI-88	MS 51962-49	5.5000	-.0010	6.4983	-.0010	3.015	5/16	.120
MI-88-N	MS 51962-48	5.5000	-.0010	6.4983	-.0010	2.515	5/16	.120
MI-96	MS 51962-50	6.0000	-.0010	7.2481	-.0012	3.015	5/16	.120
MI-104		6.5000	-.0010	7.7481	-.0012	3.015	5/16	.120
MI-112		7.0000	-.0010	8.2481	-.0012	3.015	5/16	.120
MI-120		7.5000	-.0012	8.7480	-.0012	3.015	5/16	.160
MI-128		8.0000	-.0012	9.2480	-.0012	3.015	5/16	.160

INTERCHANGEABILITY CHART

Inner race only

* TORRINGTON®	R.B.C.	* INA®	McGILL	* TORRINGTON®	R.B.C.	* INA®	McGILL
IR-061012		PI-061012	MI-6-N		IR-8407-C1		MI-30
			MI-6	IR-314028	IR-8447		MI-31
			MI-7-N	IR-324024	IR-8446-C	PI-324024	MI-32-N
IR-081212	IR-7153	PI-081212	MI-8-N	IR-324028	IR-8447-C		MI-32
					IR-8447-C1		MI-34
IR-081216	IR-7154	PI-081216	MI-8	IR-354428	IR-8477		MI-35
	IR-7153-C		MI-9-N	IR-364424	IR-8476-C	PI-364424	MI-36-N
IR-101412	IR-7173	PI-101412	MI-10-N	IR-364428	IR-8477-C		MI-36
IR-101416	IR-7174	PI-101416	MI-10	IR-384828	IR-8517		MI-38
IR-111412	IR-7173-C		MI-11-N				MI-39
IR-121612	IR-7193	PI-121612	MI-12-N	IR-404824	IR-8516-C	PI-404824	MI-40-N
IR-121616	IR-7194	PI-121616	MI-12	IR-404828	IR-8517-C		MI-40
			MI-13-N		IR-9567-D		MI-42
IR-131616	IR-7194-C		MI-13	IR-445228	IR-9567	PI-445228	MI-44
IR-141816	IR-7214	PI-141816	MI-14-N				MI-46
IR-141820	IR-7215	PI-141820	MI-14				
IR-151816			MI-15-N	IR-475632	IR-9608		MI-47
IR-151820	IR-7215-C		MI-15				MI-48-N
IR-162016	IR-7234	PI-162016	MI-16-N	IR-485632	IR-9608-C	PI-485632	MI-48
IR-162020	IR-7235	PI-162020	MI-16	IR-506032	IR-9648		MI-50
	IR-7255-D		MI-17	IR-526032	IR-9648-C		MI-52
IR-182216	IR-7254	PI-182216	MI-18-N	IR-546432	IR-9688		MI-54
IR-182220	IR-7255	PI-182220	MI-18	IR-566432	IR-9688-C		MI-56
IR-192420	IR-7275		MI-19		IR-9728-C		MI-58
IR-202416		PI-202416	MI-20-N	IR-606832	IR-9728-C1		MI-60
IR-202420	IR-7275-C	PI-202420	MI-20		IR-6769-C		MI-62
IR-212616	IR-7294	PI-212616	MI-21-N	IR-648036	IR-6849		MI-64
IR-212620	IR-7295		MI-21	IR-688036	IR-6849-C		MI-68
IR-222620	IR-7295-C	PI-222620	MI-22-4S	IR-728840	IR-6918		MI-72-N
IR-222820			MI-22	IR-728848	IR-6919		MI-72
IR-232820	IR-7315	PI-232820	MI-23	IR-809640	IR-6925		MI-80-N
IR-242816		PI-242816	MI-24-N				
IR-242820	IR-7315-C	PI-242820	MI-24	IR-809648	IR-6926		MI-80
IR-253020	IR-7335	PI-253020	MI-25-4S	IR-8810440	IR-6935		MI-88-N
IR-253220			MI-25	IR-8810448	IR-6936		MI-88
	IR-7345		MI-26-2S	IR-9611648	IR-2326		MI-96
			MI-26-N				
IR-263220	IR-7355-D		MI-26	IR-10412448	IR-2426		MI-104
IR-273220	IR-7355	PI-273220	MI-27	IR-11213248	IR-2526		MI-112
IR-283624	IR-8406	PI-283624	MI-28-N	IR-12014048	IR-2626		MI-120
IR-283628	IR-8407	PI-283624	MI-28	IR-12814848	IR-2726		MI-128

* The trademark TORRINGTON is a registered trademark of The Torrington Company.
The trademark INA is a registered trademark of Industriewerk Schaeffler, O. H. G.

Sealed

Outer ring, roller and inner ring assemblies only

* TORRINGTON®		R.B.C.		McGILL NUMBER	
OUTER	INNER	OUTER	INNER	OUTER RING AND ROLLER ASSEMBLY GUIDEROL® OR CAGEROL® BEARINGS	INNER RING ONLY
HJRR-101816		SJ-7134-RR		10-SS	MI-6
HJRR-122016	IR-081216	SJ-7154-RR	IR-7154	12-SS	MI-8
HJRR-142216	IR-101416	SJ-7174-RR	IR-7174	14-SS	MI-10
HJRR-162416	IR-121616	SJ-7194-RR	IR-7194	16-SS	MI-12
HJRR-162416	IR-131616	SJ-7194-RR	IR-7194-C	16-SS	MI-13
HJRR-182620	IR-141820	SJ-7215-RR	IR-7215	18-SS	MI-14
HJRR-182620	IR-151820	SJ-7215-RR	IR-7215-C	18-SS	MI-15
HJRR-202820	IR-162020	SJ-7235-RR	IR-7235	20-SS	MI-16
		SJ-7255-RR	IR-7255-D	22-SS	MI-17
HJRR-223020	IR-182220	SJ-7255-RR	IR-7255	22-SS	MI-18
HJRR-243320	IR-192420	SJ-7275-RR	IR-7275	24-SS	MI-19
HJRR-243320	IR-202420	SJ-7275-RR	IR-7275-C	24-SS	MI-20
HJRR-263520	IR-212620	SJ-7295-RR	IR-7295	26-SS	MI-21
HJRR-263520	IR-222620	SJ-7295-RR	IR-7295-C	26-SS	MI-22-4S
HJRR-283720	IR-232820	SJ-7315-RR	IR-7315	28-SS	MI-23
HJRR-283720	IR-242820	SJ-7315-RR	IR-7315-C	28-SS	MI-24
		SJ-7335-RR	IR-7335	30-SS	MI-25-4S
				32-SS	MI-25
HJRR-324120	IR-253220	SJ-7355-RR	IR-7355-D	32-SS	MI-26
HJRR-324120	IR-263220	SJ-7355-RR	IR-7355	32-SS	MI-27
HJRR-324120	IR-273220	SJ-7355-RR	IR-7355	32-SS	MI-27
HJRR-364828	IR-283628	SJ-8407-RR	IR-8407	36-SS	MI-28
		SJ-8407-RR	IR-8407--CI1	36-SS	MI-30
HJRR-405228	IR-314028	SJ-8447-RR	IR-8447	40-SS	MI-31
HJRR-405228	IR-324028	SJ-8447-RR	IR-8447-C	40-SS	MI-32
		SJ-8447-RR	IR-8447--CI1	40-SS	MI-34
HJRR-445628	IR-354428	SJ-8477-RR	IR-8477	44-SS	MI-35
HJRR-445628	IR-364428	SJ-8477-RR	IR-8477-C	44-SS	MI-36
HJRR-486028	IR-384828	SJ-8517-RR	IR-8517	48-SS	MI-38
				48-SS	MI-39
HJRR-486028	IR-404828	SJ-8517-RR	IR-8517-C	48-SS	MI-40
				52-SS	MI-42
				52-SS	MI-44
				56-SS	MI-46
		SJ-9608-RR	IR-9608	56-SS	MI-47
		SJ-9608-RR	IR-9608-C	56-SS	MI-48
		SJ-9648-RR	RR-9648	60-SS	MI-50
		SJ-9648-RR	IR-9648-C	60-SS	MI-52
		SJ-9688-RR	IR-9688	64-SS	MI-54
		SJ-9688-RR	IR-9688-C	64-SS	MI-56
				68-SS	MI-58
				68-SS	MI-60

** GR prefix indicates center guide full complement construction.
MR prefix indicates retainer type construction.

Outer ring and roller assemblies only

* TORRINGTON®	R.B.C.	McGILL NUMBER **GR OR MR BEARINGS
HJRR-101816	SJ-7134-RR	10-SS
HJRR-122016	SJ-7154-RR	12-SS
HJRR-142216	SJ-7174-RR	14-SS
HJRR-162416	SJ-7194-RR	16-SS
HJRR-182620	SJ-7215-RR	18-SS
HJRR-202820	SJ-7235-RR	20-SS
HJRR-223020	SJ-7255-RR	22-SS
HJRR-243320	SJ-7275-RR	24-SS
HJRR-263520	SJ-7295-RR	26-SS
HJRR-283720	SJ-7315-RR	28-SS
	SJ-7335-RR	30-SS
	SJ-7355-RR	32-SS
HJRR-324120	SJ-7355-RR	32-SS
HJRR-364828	SJ-8407-RR	36-SS
HJRR-405228	SJ-8447-RR	40-SS
HJRR-445628	SJ-8477-RR	44-SS
HJRR-486028	SJ-8517-RR	48-SS
	SJ-9568-RR	52-SS
	SJ-9608-RR	56-SS
	SJ-9648-RR	60-SS
	SJ-9688-RR	68-SS
		64-SS

** GR prefix indicates center guide full complement construction.
MR prefix indicates retainer type construction.

Types of seal configurations

DESCRIPTION	* TORRINGTON®	R.B.C.	McGILL NUMBER
Double seal with lips turned inward	HJRR-	-RR	-SS
Double seal with lips turned outward	HJTT-	-SS	-RSS
Double seal with one lip turned outward and one lip turned inward	HJTR-	-SR	-SRS
Single seal with lip turned inward	HJR-	-R	-S
Single seal with lip turned outward	HJT-	-S	-RS

* The trademark TORRINGTON is a registered trademark of The Torrington Company.

INTERCHANGEABILITY CHART

Outer ring, roller and inner ring assemblies

* TORRINGTON®	R.B.C.	* INA®	McGILL	
			GUIDEROL MT	CAGEROL MR
HJ-101812 IR-061012		NCS-1012 PI-061012	GR-10-N MI-6-N GR-10-N MI-7-N GR-10 MI-6	MR-10-N MI-6-N MR-10-N MI-7-N MR-10 MI-6
HJ-122012 IR-081212	SJ-7153 IR-7153 SJ-7153 IR-7153-C	NCS-1212 PI-081212	GR-12-N MI-8-N GR-12-N MI-9-N GR-12 MI-8	MR-12-N MI-8-N MR-12-N MI-9-N MR-12 MI-8
HJ-122016 IR-081216	SJ-7154 IR-7154	NCS-1216 PI-081216		
HJ-142212 IR-101412 HJ-142212 IR-111412 HJ-142216 IR-101416	SJ-7173 IR-7173 SJ-7173 IR-7173-C SJ-7174 IR-7174	NCS-1412 PI-101412 NCS-1416 PI-101416	GR-14-N MI-10-N GR-14-N MI-11-N GR-14 MI-10	MR-14-N MI-10-N MR-14-N MI-11-N MR-14 MI-10
HJ-162412 IR-121612 HJ-162416 IR-121616 HJ-162416 IR-131616	SJ-7193 IR-7193 SJ-7194 IR-7194 SJ-7194 IR-7194-C	NCS-1612 PI-121612 NCS-1616 PI-121616	GR-16-N MI-12-N GR-16 MI-12 GR-16 MI-13	MR-16-N MI-12-N MR-16 MI-12 MR-16 MI-13
HJ-182616 IR-141816 HJ-182616 IR-151816 HJ-182620 IR-141820	SJ-7214 IR-7214 SJ-7215 IR-7215	NCS-1816 PI-141816 NCS-1820 PI-141820	GR-18-N MI-14-N GR-18-N MI-15-N GR-18 MI-14	MR-18-N MI-14-N MR-18-N MI-15-N MR-18 MI-14
HJ-182620 IR-151820 HJ-202816 IR-162016 HJ-202820 IR-162020	SJ-7215 IR-7215-C SJ-7234 IR-7234 SJ-7235 IR-7235	 NCS-2016 PI-162016 NCS-2020 PI-162020	GR-18 MI-15 GR-20-N MI-16-N GR-20 MI-16	MR-18 MI-15 MR-20-N MI-16-N MR-20 MI-16
HJ-223016 IR-182216 HJ-223020 IR-182220	SJ-7254 IR-7254 SJ-7255 IR-7255-D SJ-7255 IR-7255	NCS-2216 PI-182216 NCS-2220 PI-182220	GR-22-N MI-18-N GR-22 MI-17 GR-22 MI-18	MR-22-N MI-18-N MR-22 MI-17 MR-22 MI-18
HJ-243316 IR-202416 HJ-243320 IR-192420 HJ-243320 IR-202420	 SJ-7275 IR-7275 SJ-7275 IR-7275-C	NCS-2416 PI-202416 NCS-2420 PI-202420	GR-24-N MI-20-N GR-24 MI-19 GR-24 MI-20	MR-24-N MI-20-N MR-24 MI-19 MR-24 MI-20
HJ-263516 IR-212616 HJ-263520 IR-212620 HJ-263520 IR-222620	SJ-7294 IR-7294 SJ-7295 IR-7295 SJ-7295 IR-7295-C	NCS-2616 PI-212616 NCS-2620 PI-222620	GR-26-N MI-21-N GR-26 MI-21 GR-26 MI-22-4S	MR-26-N MI-21-N MR-26 MI-21 MR-26 MI-22-4S
HJ-283716 IR-242816 HJ-283720 IR-222820 HJ-283720 IR-232820 HJ-283720 IR-242820	 SJ-7315 IR-7315 SJ-7315 IR-7315-C	NCS-2816 PI-242816 NCS-2820 PI-232820 NCS-2820 PI-242820	 GR-28 MI-22 GR-28 MI-23 GR-28 MI-24	MR-28-N MI-24-N MR-28 MI-22 MR-28 MI-23 MR-28 MI-24

* The trademark TORRINGTON is a registered trademark of The Torrington Company.
The trademark INA is a registered trademark of Industriewerk Schaeffler, O. H. G.

Outer ring, roller and inner ring assemblies

* TORRINGTON®	R.B.C.	* INA®	McGILL	
			GUIDEROL MT	CAGEROL MR
HJ-303920 IR-253020 HJ-324120 IR-253220	SJ-7335 IR-7335 SJ-7345 IR-7345	NCS-3020 PI-253020	GR-30 MI-25-4S GR-31 MI-26-2S GR-32-N MI-26-N GR-32 MI-25	MR-30 MI-25-4S MR-31 MI-26-2S MR-32-N MI-26-N MR-32 MI-25
HJ-324120 IR-263220 HJ-324120 IR-273220	SJ-7355 IR-7335-D SJ-7355 IR-7355	NCS-3220 PI-273220	GR-32 MI-26 GR-32 MI-27	MR-32 MI-26 MR-32 MI-27
HJ-364824 IR-283624 HJ-364828 IR-283628	SJ-8406 IR-8406 SJ-8407 IR-8407	NCS-3624 PI-283624	GR-36-N MI-28-N GR-36 MI-28	MR-36-N MI-28-N MR-36 MI-28
HJ-405224 IR-324024 HJ-405228 IR-314028	SJ-8407 IR-8407-C1 SJ-8446 IR-8446-C SJ-8447 IR-8479	NCS-4024 PI-324024	GR-36 MI-30 GR-40-N MI-32-N GR-40 MI-31	MR-36 MI-30 MR-40-N MI-32-N MR-40 MI-31
HJ-405228 IR-324028 HJ-445624 IR-364424	SJ-8447 IR-8447-C SJ-8447 IR-8447-C1 SJ-8476 IR-8476-C	NCS-4424 PI-364424	GR-40 MI-32 GR-40 MI-34 GR-44-N MI-36-N	MR-40 MI-32 MR-40 MI-34 MR-44-N MI-36-N
HJ-445628 IR-354428 HJ-445628 IR-364428 HJ-486024 IR-404824	SJ-8477 IR-8477 SJ-8477 IR-8477-C SJ-8516 IR-8516-C	NCS-4824 PI-404824	GR-44 MI-35 GR-44 MI-36 GR-48-N MI-40-N	MR-44 MI-35 MR-44 MI-36 MR-48-N MI-40-N
HJ-486028 IR-384828 HJ-486028 IR-404828	SJ-8517 IR-8517 SJ-8517 IR-8517-C		GR-48 MI-38 GR-48 MI-39 GR-48 MI-40	MR-48 MI-38 MR-48 MI-39 MR-48 MI-40
HJ-526828 IR-445228	SJ-9567 IR-9567-D SJ-9567 IR-9567	NCS-5228 PI-445228	GR-52 MI-42 GR-52 MI-44 GR-56-N MI-48-N	MR-52 MI-42 MR-52 MI-44 MR-56-N MI-48-N
HJ-567232 IR-475632 HJ-567232 IR-485632	SJ-9608 IR-9608 SJ-9608 IR-9608-C	NCS-5632 PI-485632	GR-56 MI-46 GR-56 MI-47 GR-56 MI-48	MR-56 MI-46 MR-56 MI-47 MR-56 MI-48
HJ-607632 IR-506032 HJ-607632 IR-526032 HJ-648032 IR-546432	SJ-9648 IR-9648 SJ-9648 IR-9648-C SJ-9688 IR-9688		GR-60 MI-50 GR-60 MI-52 GR-64 MI-54	MR-60 MI-50 MR-60 MI-52 MR-64 MI-54
HJ-648032 IR-566432 HJ-688432 IR-606832	SJ-9688 IR-9688-C SJ-9728 IR-9728-C1 SJ-9728 IR-9728-C		GR-64 MI-56 GR-68 MI-60 GR-68 MI-58	MR-64 MI-56 MR-68 MI-60 MR-68 MI-58

* The trademark TORRINGTON is a registered trademark of The Torrington Company.
The trademark INA is a registered trademark of Industriewerk Schaeffler, O. H. G.

INTERCHANGEABILITY CHART (Cont'd.)

Outer ring, roller and inner ring assemblies

* TORRINGTON®	R.B.C.	* INA®	McGILL	
			GUIDEROL MT	CAGEROL MR
HJ-8010436	SJ-6769		GR-72	MR-72
IR-648036	IR-6769-C		MI-62	MI-62
HJ-8010436	SJ-6849		GR-80	MR-80
IR-688036	IR-6849		MI-64	MI-64
	SJ-6849		GR-80	MR-80
	IR-6849-C		MI-68	MI-68
HJ-8811240	SJ-6918		GR-88-N	MR-88-N
IR-728840	IR-6918		MI-72-N	MI-72-N
HJ-8811248	SJ-6919		GR-88	MR-88
IR-728848	IR-6919		MI-72	MI-72
HJ-9612040	SJ-6925		GR-96-N	MR-96-N
IR-809640	IR-6925		MI-80-N	MI-80-N
HJ-9612048	SJ-6926		GR-96	MR-96
IR-809648	IR-6926		MI-80	MI-80
HJ-10412840	SJ-6935		GR-104-N	MR-104-N
IR-8810440	IR-6935		MI-88-N	MI-88-N
HJ-10412848	SJ-6936		GR-104	MR-104
IR-8810448	IR-6936		MI-88	MI-88
HJ-11614648	SJ-2326		GR-116	MR-116
IR-9611648	IR-2326		MI-96	MI-96
HJ-12415448	SJ-2426		GR-124	MR-124
IR-10412448	IR-2426		MI-104	MI-104
HJ-13216248	SJ-2526		GR-132	MR-132
IR-11213248	IR-2526		MI-112	MI-112
HJ-14017048	SJ-2626		GR-140	MR-140
IR-12014048	IR-2626		MI-120	MI-120
HJ-14817848	SJ-2726		GR-148	MR-148
IR-12814848	IR-2726		MI-128	MI-128

* The trademark TORRINGTON is a registered trademark of The Torrington Company.
The trademark INA is a registered trademark of Industriefabrik Schaeffler, O. H. G.

Outer ring and roller assemblies only

*TORRINGTON®	R.B.C.	* INA®	McGILL	
			GUIDEROL MT	CAGEROL MR
HJ-101812	SJ-7133	NCS-1012	GR-10-N	MR-10-N
	SJ-7134	NCS-1016	GR-10	MR-10
HJ-122012	SJ-7153	NCS-1212	GR-12-N	MR-12-N
HJ-122016	SJ-7154	NCS-1216	GR-12	MR-12
HJ-142212	SJ-7173	NCS-1412	GR-14-N	MR-14-N
HJ-142216	SJ-7174	NCS-1416	GR-14	MR-14
HJ-162412	SJ-7193	NCS-1612	GR-16-N	MR-16-N
HJ-162416	SJ-7194	NCS-1616	GR-16	MR-16
HJ-182616	SJ-7214	NCS-1816	GR-18-N	MR-18-N
HJ-182620	SJ-7215	NCS-1820	GR-18	MR-18
HJ-202816	SJ-7234	NCS-2016	GR-20-N	MR-20-N
HJ-202820	SJ-7235	NCS-2020	GR-20	MR-20
HJ-223016	SJ-7254	NCS-2216	GR-22-N	MR-22-N
HJ-223020	SJ-7255	NCS-2220	GR-22	MR-22
HJ-243316	SJ-7274	NCS-2416	GR-24-N	MR-24-N
HJ-243320	SJ-7275	NCS-2420	GR-24	MR-24
HJ-263516	SJ-7294	NCS-2616	GR-26-N	MR-26-N
HJ-263520	SJ-7295	NCS-2620	GR-26	MR-26
HJ-283716	SJ-7314	NCS-2816		MR-28-N
HJ-283720	SJ-7315	NCS-2820	GR-28	MR-28
	SJ-7334	NCS-3016		MR-30-N
HJ-303920	SJ-7335	NCS-3020	GR-30	MR-30
	SJ-7345			MR-31
HJ-324116	SJ-7354	NCS-3216	GR-32-N	MR-32-N
HJ-324120	SJ-7355	NCS-3220	GR-32	MR-32
HJ-364824	SJ-8406	NCS-3624	GR-36-N	MR-36-N
HJ-364828	SJ-8407		GR-36	MR-36
HJ-405224	SJ-8446	NCS-4024	GR-40-N	MR-40-N
HJ-405228	SJ-8447		GR-40	MR-40
HJ-445624	SJ-8476	NCS-4424	GR-44-N	MR-44-N
HJ-445628	SJ-8477		GR-44	MR-44
HJ-486024	SJ-8516	NCS-4824	GR-48-N	MR-48-N
HJ-486028	SJ-8517		GR-48	MR-48
HJ-526828	SJ-9567	NCS-5228	GR-52	MR-52
	SJ-9607		GR-56-N	MR-56-N
HJ-567232	SJ-9608	NCS-5632	GR-56	MR-56
HJ-607632	SJ-9648		GR-60	MR-60
HJ-648032	SJ-9688		GR-64	MR-64
HJ-688432	SJ-9728	NCS-6832	GR-68	MR-68
HJ-729636	SJ-6769		GR-72	MR-72
HJ-8010436	SJ-6849		GR-80	MR-80
HJ-8811240	SJ-6918		GR-88-N	MR-88-N
HJ-8811248	SJ-6919		GR-88	MR-88
HJ-9612040	SJ-6925		GR-96-N	MR-96-N
HJ-9612048	SJ-6926		GR-96	MR-96
HJ-10412840	SJ-6935		GR-104-N	MR-104-N
HJ-10412848	SJ-6936		GR-104	MR-104
HJ-11614648	SJ-2326		GR-116	MR-116
HJ-12415448	SJ-2426		GR-124	MR-124
HJ-13216248	SJ-2526		GR-132	MR-132
HJ-14017048	SJ-2626		GR-140	MR-140
HJ-14817848	SJ-2726		GR-148	MR-148

* The trademark TORRINGTON is a registered trademark of The Torrington Company.
The trademark INA is a registered trademark of Industriewerk Schaeffler, O. H. G.