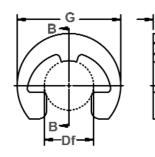
## Radially Assembled, External Reinforced 'E', ANSI Metric

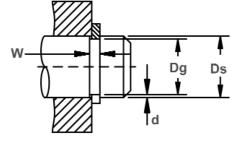


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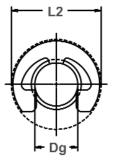
The MRE retaining ring is a reinforced version of the ME ring, which will accommodate higher thrust loadings and RPM. MRE rings function in the same size grooves as regular E rings, so that you can change from one to the other without re-engineering the application.



Free Diameter & Ring Measurements With Section B-B



Shaft Diameter & Groove Dimensions



Clearance Diameter Installed in Groove

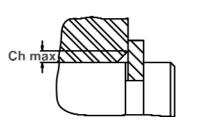
RING	SHAFT GROOVE				E SIZE			RING SIZE & WEIGHT				CLEARANCE		Ï THRUST LD (kN)			
NO.	DIAMETER		DIAMETER					DEPTH	1	FREE THICKNESS***		Wt.	Free	Re-		er Abutment	
								DIAMETER				Per 1000 Pcs.	Out- Side Dia. Ref.	leased In Groove	Ring (Safety factor of 3)	Groove (Safety factor of 2)	
	Ds	Ds															
	mm	DEC	Dg	Tol.	F.I.M.*	W	Tol.	d	Df	Tol.	Т	Tol.	kg	G	L2	Pr	Pg
MRE-4	4	0.157	3.00	-0.05	0.05	0.7		0.50	2.90	+0.05-0.08	0.6		0.14	8.50	8.9	0.6	0.18
MRE-5	5	0.197	3.85		0.05	0.7		0.57	3.65		0.6		0.18	9.50	9.9	0.8	0.27
MRE-6	6	0.236	4.85	-0.10	0.05	0.7		0.57	4.65	+0.08	0.6		0.24	11.35	11.8	1.0	0.34
MRE-7	7	0.276	5.40		0.08	0.7	1	0.80	5.20	-0.08	0.6		0.32	13.10	13.7	1.1	0.54
MRE-8	8	0.315	6.40		0.08	0.7	1	0.80	6.15		0.6	±0.06	0.36	14.95	15.6	1.3	0.63
MRE-9	9	0.354	7.10		0.10	1.0	+0.15	0.95	6.75		0.9		0.60	15.70	16.4	2.2	0.80
MRE-10	10	0.394	7.80		0.10	1.0	]	1.10	7.45	]	0.9		0.68	16.75	17.5	2.4	1.10
MRE-11	11	0.433	8.80	-0.15	0.10	1.0	1	1.10	8.45	+0.10	0.9		0.86	18.95	19.7	2.7	1.20
MRE-12	12	0.472	9.50		0.10	1.2	]	1.25	9.10	-0.10	1.1		1.20	19.60	20.4	3.5	1.50
MRE-13	13	0.512	10.2		0.10	1.2	]	1.40	9.80	]	1.1		1.45	20.55	21.3	3.9	1.70
MRE-14	14	0.551	11.2		0.10	1.2	]	1.40	10.90	]	1.1		1.60	22.10	22.8	4.2	1.90
MRE-15	15	0.591	11.8		0.10	1.2		1.60	11.50	1	1.1		1.75	23.20	23.9	4.5	2.30

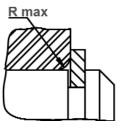
\*F.I.M. (FULL INDICATOR MOVEMENT)-MAXIMUM ALLOWABLE DEVIATION OF CONCENTRICITY BETWEEN GROOVE AND SHAFT.

Î BASED ON HOUSINGS/SHAFTS MADÉ OF COLD ROLLED STEEL. FOR AN EXPLANATION OF FORMULAS USED TO DERIVE THRUST LOAD AND OTHER Performance data, contact the rotor clip engineering dept.

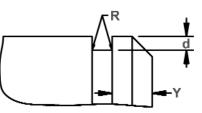
\*\*\* FOR PLATED RINGS, ADD 0.05 TO THE LISTED MAXIMUM THICKNESS. MAXIMUM RING THICKNESS WILL BE A MINIMUM OF 0.005 LESS THAN THE LISTED GROOVE WIDTH (W) MINIMUM.











Exploded Groove Profile & Edge Margin (Y) Maximum bottom radii (R), 0.1 for ring sizes -4; 0.15 for ring sizes -5 thru -9; 0.25 for ring sizes -10 thru -15

RING No.	RAD	INER DII & IFERS	LOAD w/ R max or Ch max (kN)	MAR- Gin	LIMITS Standard Material
	R max	Ch max	P'r	Y	
MRE-4	1.6	1.3	0.6	1.0	50000
MRE-5	1.6	1.3	0.8	1.1	43000
MRE-6	1.6	1.3	1.0	1.1	38000
MRE-7	1.6	1.3	1.1	1.6	33000
MRE-8	1.6	1.3	1.3	1.6	28000
MRE-9	1.8	1.4	2.2	1.9	27000
MRE-10	1.8	1.4	2.4	2.2	25000
MRE-11	1.8	1.4	2.7	2.2	21500
MRE-12	2.0	1.5	3.5	2.5	19500
MRE-13	2.0	1.5	3.9	2.8	17500
MRE-14	2.0	1.5	4.2	2.8	15500
MRE-15	2.0	1.5	4.5	3.2	14000

NOTE: CONTACT ROTOR CLIP FOR AVAILABILITY OF SIZES LISTED. LARGER SIZES MAY BE AVAILABLE UPON REQUEST.

HARDNESS RANGES: STAINLESS STEEL RINGS (PH 15-7MO)

RING TYPE	SIZE RANGE	SCALE	ROCKWELL HARDNESS
MRE	4-8	30N	63-69.5
	9-15	С	44-51

HARDNESS RANGES: CARBON STEEL RINGS (SAE 1060-1090)

RING TYPE	SIZE RANGE	SCALE	ROCKWELL HARDNESS
MRE	4-8	30N	67.5-71
	9-15	С	48-52