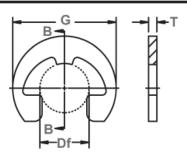
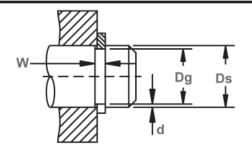
Radially Assembled, External Reinforced 'E', ANSI Metric



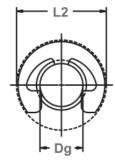
The MRE retaining ring is a reinforced version of the ME ring, which will accommodate higher thrust loadings and RPM. MRE rings function in the same size grooves as regular E rings, so that you can change from one to the other without re-engineering the application.







Shaft Diameter & Groove Dimensions



Clearance Diameter Installed in Groove

RING				GROOVI	OOVE SIZE				RING SIZE & WEIGHT				CLEARANCE		THRUST LD (kN)		
NO.	DIAMETER		DIAMETER			WIDTH DEP		DEPTH	F	REE THICKNESS***		Wt.	Free	Re-	Sqr. Corne	er Abutment	
									DIAMETER			Per	Out-	leased	Ring	Groove	
													1000	Side	In	(Safety	(Safety
													Pcs.	Dia.	Groove	factor	factor
													Ref.		of 3)	of 2)	
	Ds	Ds															
	mm	DEC	Dg	Tol.	F.I.M.*	W	Tol.	d	Df	Tol.	T	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		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		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		1.10	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]	1.75	23.20	23.9	4.5	2.30

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

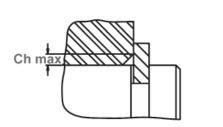
i Based on Housings/Shafts made of cold rolled steel. For an explanation of formulas used to derive thrust load and other performance data, contact the rotor clip engineering dept.

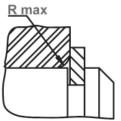
^{***} FOR PLATED RINGS, ADD 0.05 TO THE LISTED MAXIMUM THICKNESS. MAXIMUM RING THICKNESS WILL BE A MINIMUM OF 0.005 LESS THAN THE LISTED GROOVE WIDTH (W) MINIMUM.

www.rotorclip.com

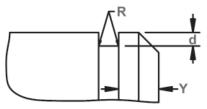
+1 732.469.7333 • sales@rotorclip.com







Maximum Corner Radius & Chamfer



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	NER DII & IFERS	LOAD w/ R max or Ch max (kN)	MAR- GIN	LIMITS Standard Material	
	R max	Ch max	P'r	Υ		
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