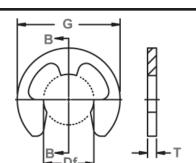


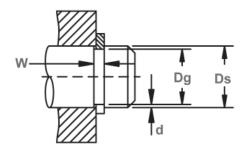
Radially Assembled, External 'E', ANSI Metric

Perhaps the most popular and widely used radial retaining ring is the "E" (so named because it is shaped like the letter "E").

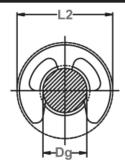
Three prongs make contact with the bottom of the groove and provide a shoulder for effective retention of assemblies.







Shaft Diameter & Groove Dimensions



Clearance Diameter & Installed In Groove

RING	SH	AFT	GROOV			VE SIZE			RING SIZE & WEIGHT				CLEARANCE DIA.		î THRUST LD (kN)		
NO.	DIAMETER		DIAMETER		WIDTH DEPT		DEPTH	FREE		THICKNESS*** \		Wt.	Free	Re-	Sqr. Corner	Abutment	
								DIAMETER				Per	Out-	leased	Ring	Groove	
													1000	Side	In	(Safety	(Safety
													Pcs.	Dia.	Groove	factor	factor
														Ref.		of 3)	of 2)
	L																
	Ds	Ds															
	mm	DEC	Dg	Tol.	F.I.M.**	W	Tol.	d	Df	Tol.	T	Tol.	kg	G	L2	Pr	Pg
ME-1*	1	.039	0.72	-0.05	0.04	0.32	+0.05	0.14	0.64		0.25	±0.05	0.004	2.0	2.2	0.06	0.02
ME-2	2	.079	1.45		0.04	0.32		0.28	1.30		0.25		0.014	4.0	4.3	0.13	0.09
ME-3	3	.118	2.30		0.04	0.50	+0.10	0.35	2.10	+0.03	0.40		0.036	5.6	6.0	0.30	0.17
ME-4	4	.157	3.10	-0.08	0.05	0.70		0.45	2.90	-0.08	0.60		0.095	7.2	7.6	0.70	0.30
ME-5	5	.197	3.90		0.05	0.70		0.55	3.70		0.60		0.13	8.5	8.9	0.90	0.40
ME-6	6	.236	4.85		0.05	0.70		0.58	4.70		0.60		0.21	11.1	11.5	1.10	0.60
ME-7	7	.275	5.55		0.08	0.70		0.73	5.25		0.60		0.34	13.4	14.0	1.20	0.80
ME-8	8	.315	6.40		0.08	0.70		0.80	6.15		0.60		0.35	14.6	15.1	1.40	1.00
ME-9	9	.354	7.20	-0.10	0.08	1.00		0.90	6.80		0.90	± 0.06	0.58	15.8	16.5	3.00	1.30
ME-10	10	.393	8.00		0.08	1.00	+0.15	1.00	7.60	+0.05	0.90		0.68	16.8	17.5	3.40	1.60
ME-11	11	.433	8.90		0.10	1.00		1.05	8.55	-0.10	0.90		0.68	17.4	18.0	3.70	1.90
ME-12	12	.472	9.60		0.10	1.20		1.20	9.20		1.10		1.00	18.6	19.3	4.90	2.30
ME-13	13	.512	10.30		0.10	1.20		1.35	9.95		1.10		1.13	20.3	21.0	5.40	2.90
ME-15	15	.591	11.80	-0.15	0.10	1.20		1.60	11.40		1.10		1.40	22.8	23.5	6.20	4.00
ME-16	16	.630	12.50		0.10	1.20		1.75	12.15		1.10		1.45	23.8	24.5	6.60	4.50
ME-18	18	.709	14.30		0.10	1.40		1.85	13.90	+0.10	1.30		2.3	27.2	27.9	8.70	5.40
ME-20	20	.787	16.00		0.10	1.40		2.00	15.60	-0.15	1.30		2.8	30.0	30.7	9.80	6.50
ME-22	22	.866	17.40	-0.20	0.10	1.40		2.30	17.00		1.30		3.4	33.0	33.7	10.80	8.10
ME-25	25	.984	20.00		0.10	1.40		2.50	19.50		1.30		4.2	37.1	37.9	12.20	10.10

^{*} AVAILABLE IN BERYLLIUM COPPER ONLY.

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

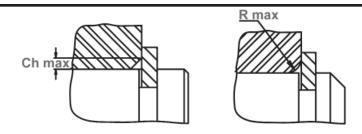
i Based on grooves made of cold rolled steel. For an explanation of formulas used to derive thrust load and other performance data contact the rotor clip engineering department.

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

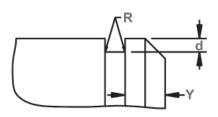
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Exploded Groove Profile & Edge Margin (Y)
Maximum bottom radii (R), 0.05 for ring sizes
-1 thru -2; 0.15 for ring sizes -3 thru -7;
0.25 for ring sizes -8 thru -13
0.40 for ring sizes -15 thru -25

RING NO.	COF	WABLE RNER DII & MFERS	MAX. LOAD w/ R max or Ch max (kN)	EDGE Margin	R.P.M. LIMITS Standard Material
	R max	Ch max	P'r	Υ	
ME-1*	0.4	0.25	0.06	0.3	40000
ME-2	0.8	0.50	0.13	0.6	40000
ME-3	1.1	0.70	0.30	0.7	34000
ME-4	1.6	1.20	0.70	0.9	31000
ME-5	1.6	1.20	0.90	1.1	27000
ME-6	1.6	1.20	1.10	1.2	25000
ME-7	1.6	1.20	1.20	1.5	23000
ME-8	1.7	1.30	1.40	1.6	21500
ME-9	1.7	1.30	3.00	1.8	19500
ME-10	1.7	1.30	3.40	2.0	18000
ME-11	1.7	1.30	3.70	2.1	16500
ME-12	1.9	1.40	4.90	2.4	15000
ME-13	2.0	1.50	5.40	2.7	13000
ME-15	2.0	1.50	6.20	3.2	11500
ME-16	2.0	1.50	6.60	3.5	10000
ME-18	2.1	1.60	8.70	3.7	9000
ME-20	2.2	1.70	9.80	4.0	8000
ME-22	2.2	1.70	10.80	4.6	7000
ME-25	2.4	1.90	12.20	5.0	5000

LARGER SIZES MAY BE AVAILABLE UPON REQUEST.

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

RING TYPE	SIZE RANGE	SCALE	ROCKWELL HARDNESS
	2-3	15N	82.5-86*
ME	4-8	30N	63-69.5
	9-25	С	44-51

HARDNESS RANGES: BERYLLIUM COPPER RINGS

HANDINESS N	IANDINESS HANGES. BENT LLIUW COPPEN HINGS							
RING TYPE	SIZE RANGE	SCALE	ROCKWELL HARDNESS					
	1-3	15N	79-82*					
ME	4-9	30N	56.5-68					
	10-25	С	37-43					

HARDNESS RANGES: CARBON STEEL RINGS (SAE 1060-1090

	HANDINESS HANGES. CANDON STEEL HINGS (SAE 1000-1090)								
	RING TYPE	SIZE RANGE	SCALE	ROCKWELL HARDNESS					
		2-3	15N	85-87*					
	ME	4-8	30N	67.5-71					
		9-25	С	48-52					

^{*}HARDNESS CAN NOT BE CHECKED WITH ANY DEGREE OF ACCURACY DIRECTLY ON THESE RINGS.