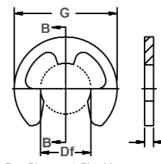
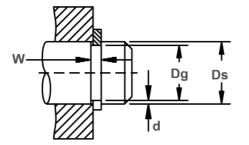


Radially Assembled, External 'E', ANSI Metric

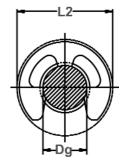
Perhaps the most popular and widely used radial retaining ring is the "E" (so named because it is shaped like the letter "E"). Three prongs make contact with the bottom of the groove and provide a shoulder for effective retention of assemblies.



Free Diameter & Ring Measurements With Section B-B



Shaft Diameter & Groove Dimensions



Clearance Diameter & Installed In Groove

RING	SHAFT				GROOVE SIZE					RING	SIZE & W	/EIGHT		CLEARANCE DIA.		î THRUST LD (kN)	
NO.	DIAM	ETER	DIAMETER		WIDTH DE		DEPTH	F	REE	THICK	NESS***	Wt.	Free	Re-	Sqr. Corner	Abutment	
							DIAMETER				Per 1000 Pcs.	Out- Side Dia. Ref.	leased In Groove	Ring (Safety factor of 3)	Groove (Safety factor of 2)		
	Ds Ds		1														
	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.

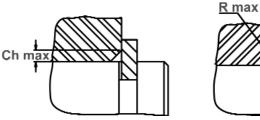
** F.I.M. (FULL INDICATOR MOVEMENT)- MAXIMUM ALLOWABLE DEVIATION OF CONCENTRICITY BETWEEN GROOVE AND SHAFT.

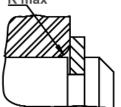
Î BASED ON GROOVES MADE OF COLD ROLLED STEEL. FOR AN EXPLANATION OF FORMULAS USED TO DERIVE THRUST LOAD AND OTHER

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.





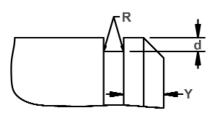




Maximum Corner Radius & Chamfer

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	Y	
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.



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

HARDNESS	BANGES:	STAINI F	SS STEEL	BINGS (PH	15-7MO)
TIANDINESS	NANGLO.	JIAINLL		niivuo (ГП	1J-7 IVIU)

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

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)

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.