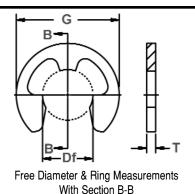
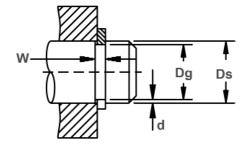
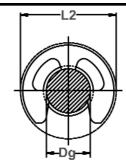
Radially Assembled, External 'E'



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	SHAFT			GROOVE SIZE				DINO CITE & WEIGHT				CLEARANCE DIA. Î THRUST LD. (Ibs.)					
NO.	DIAMETER						DEPTH	RING SIZE & WEIGHT THICKNESS***			Weight.	Free	Installed	Sgr. corne			
NU.	DIAMETER		ווט	AWIETER	WII	חוע	DEPIR		METER	ILLICKN	E99						
									DIF	MILLER			Per 1000	out- side	in	Ring	Groove Safety
															groove	Safety	•
													pcs.	dia. REF.		factor of 3	factor of 2
	Ds Ds Ds		+									NEF.		01.3	01 2		
	DEC	FRAC	mm	Dg	Tol.	W	Tol.	d	Df	Tol.	Т	Tol.	lbs.	G	L2	Pr	Pg
**E-4	.040	-	1.0	.026	10	.012	101.	.007	.025	10	.010	10	.009	.079	.090	13	6
E-6	.062	1/16	1.6	.052	i	.012		.005	.051	+.001	.010	±.001	.030	.156	.165	20	7
SE-6	.062	1/16	1.6	.052	1	.012		.005	.051	003	.010		.028	.140	.150	20	7
YE-6	.062	1/16	1.6	.052	+.002	.023		.005	.051	1	.020		.094	.187	.200	41	7
SE-9	.094	3/32	2.4	.074	000	.020	+.002	.010	.069	+.002003	.015	1	.10	.230	.245	46	20
E-9	.094	3/32	2.4	.074	*.0015	.020	000	.010	.073		.015	1	.058	.187	.200	46	20
SE-11	.110	7/64	2.8	.079	1	.020		.015	.076]	.015	1	.31	.375	.390	61	40
SE-12	.125	1/8	3.2	.095]	.029		.015	.094]	.025	1	.12	.214	.225	110	45
E-12	.125	1/8	3.2	.095]	.020		.015	.094]	.015]	.087	.230	.240	66	45
SE-14	.140	9/64	3.6	.102		.020		.019	.100]	.015]	.060	.203	.215	76	60
YE-14	.140	9/64	3.6	.110		.020		.015	.108]	.015		.10	.250	.265	76	45
E-14	.140	9/64	3.6	.105		.029		.017	.102	+.001	.025]	.21	.270	.285	173	60
SE-15	.156	5/32	4.0	.118		.046		.019	.116	003	.042]	.76	.375	.390	300	70
E-15	.156	5/32	4.0	.116	+.002	.029		.020	.114]	.025		.21	.282	.295	178	75
SE-17	.172	11/64	4.4	.127	000	.029		.022	.125]	.025		.24	.312	.325	183	90
SE-18	.188	3/16	4.8	.125	*.002	.029		.031	.122	!	.025		.45	.375	.39	203	135
YE-18	.188	3/16	4.8	.147		.029		.020	.145		.025	±.002	.70	.470	.485	193	90
ZE-18	.188	3/16	4.8	.125		.029		.031	.122		.025		1.05	.550	.565	203	135
E-18	.188	3/16	4.8	.147		.029		.020	.145		.025		.29	.335	.35	193	90
SE-21	.219	7/32	5.6	.188		.029		.015	.185		.025		.47	.437	.45	228	75
E-25	.250	1/4	6.3	.210		.029		.020	.207		.025		.76	.527	.54	259	115
SE-31	.312	5/16	7.9	.250		.029	+.003	.031	.243		.025		.57	.500	.52	330	225
YE-31	.312	5/16	7.9	.250		.029	000	.031	.243		.025	l	1.220	.670	.685	325	220
SE-37	.375	3/8 3/8	9.5	.306		.039		.034	.303	+.002	.035	l	1.050	.567	.587	680 700	300 315
E-37	.438	7/16	9.5	.343	+.003 000	.039		.036	.300	004	.035	1	1.5 1.5	.660 .687	.68 .71	842	480
E-43 SE-43	.438	7/16	11.1	.380	*.000 *.004	.039		.029	.375	 	.035		1.0	.600	.62	812	280
E-50	.500	1/2	12.7	.396	^.004	.039		.052	.375	{	.035	ł	2.5	.800	.82	1127	600
E-62	.625	5/8	15.9	.485	1	.046		.032	.480		.042	ł	3.2	.940	.02	1441	1050
SE-74	.750	3/4	19.0	.625	1	.056		.062	.616	+.003	.050	l	4.3	1.000	1.02	1979	1100
E-75	.750	3/4	19.0	.580	1	.056		.085	.574	005	.050	ł	5.8	1.120	1.02	2030	1500
E-73	.875	7/8	22.2	.675		.056		.100	.668	005	.050	ł	7.6	1.300	1.32	2385	2050
SE-98	.984	63/64	25.0	.835	1	.056		.074	.822	1	.050	1	9.2	1.500	1.53	2639	1750
SE-98	1.000	1	25.4	.835	1	.056		.074	.822	1	.050	1	9.2	1.500	1.53	2690	1900
SE-118	1.188	1-3/16	30.2	1.079	+.005	.068	+.004	.054	1.066	+.006	.062	±.003	11.3	1.626	1.67	3501	1500
SE-117	1.375	1-3/10	34.9	1.230	000 *.005	.068	000	.072	1.213	010	.062	1003	15.4	1.875	1.92	4162	2350
OL-101	1.070	1-0/0	U+.5	1.200	.000 .003	.000	000	.012	1.210	010	.002	ı	13.4	1.073	1.32	7102	2000

LISTED GROOVE WIDTH (W) MINIMUM.

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

** AVAILABLE IN BERYLLIUM COPPER ONLY.

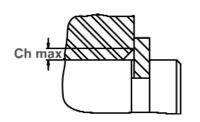
Î BASED ON GROOVES MADE OF COLD ROLLED STEEL. FOR AN EXPLANATION OF FORMULAS USED TO DERIVE THRUST LOAD AND OTHER PERFORMANCE DATA CONTACT THE ROTOR CLIP ENGINEERING DEPARTMENT.

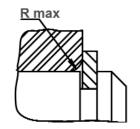
*** FOR PLATED RINGS, ADD .002" TO THE LISTED MAXIMUM THICKNESS. MAXIMUM THICKNESS WILL BE A MINIMUM OF .0002" LESS THAN THE LISTED GROOVE WIDTH (W) MINIMUM.

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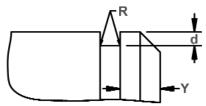
1.800.557.6867 • +1 732.469.7333 • sales@rotorclip.com







Maximum Corner Radius & Chamfer



Exploded Groove Profile & Edge Margin (Y)
Maximum bottom radii (R), Sharp corners
for rings 4 thru 6; .005 For sizes SE9 thru 25; .010
For sizes SE-31 thru SE-43; .015 For sizes 50 thru SE-137

RING No.			MAX LOAD w/ R max or Ch max (in lbs.)	EDGE MAR- GIN	R.P.M. LIMITS Stan- dard material	
	R max	Ch max	P'r	Υ		
**E-4	.015	.010	13	.014	40000	
E-6	.030	.020	20	.010	40000	
SE-6	.030	.020	20	.010	40000	
YE-6	.035	.025	40	.010	40000	
SE-9	.053	.040	45	.020	36000	
E-9	.040	.030	45	.020	36000	
SE-11	.080	.060	60	.030	35000	
SE-12	.040	.030	108	.030	35000	
E-12	.040	.030	65	.030	35000	
SE-14	.029	.022	75	.038	32000	
YE-14	.040	.030	75	.030	32000	
E-14	.060	.045	170	.034	32000	
SE-15	.080	.060	250	.038	31000	
E-15	.060	.045	175	.040	31000	
SE-17	.060	.045	180	.044	30000	
SE-18	.060	.045	200	.062	30000	
YE-18	.060	.045	190	.040	25000	
ZE-18	.060	.045	200	.062	18000	
E-18	.060	.045	190	.040	30000	
SE-21	.060	.045	225	.030	26000	
E-25	.060	.045	255	.040	25000	
SE-31	.060	.045	325	.062	22000	
YE-31	.060	.045	320	.062	15000	
SE-37	.060	.045	680	.068	20000	
E-37	.065	.050	690	.072	20000	
E-43	.065	.050	830	.094	16500	
SE-43	.050	.035	800	.058	16500	
E-50	.080	.060	1110	.104	14000	
E-62	.080	.060	1420	.140	12000	
SE-74	.057	.042	1900	.124	11000	
E-75	.085	.065	2000	.170	10500	
E-87	.085	.065	2350	.200	9000	
SE-98	.085	.065	2700	.148	6500	
SE-98	.077	.057	2700	.164	6500	
SE-118	.090	.070	3450	.108	5500	
SE-137	.090	.070	4100	.144	4000	

LARGER SIZES MAY BE AVAILABLE UPON REQUEST.

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

RING TYPE	SIZE RANGE	SCALE	ROCKWELL HARDNESS
E	E6-SE6	15N	82.5-86*
All	YE6-YE14	15N	82.5-86
	E14-SE31	30N	63-69.5
	E37+	C	44-51

HARDNESS RANGES: BERYLLIUM COPPER RINGS

RING TYPE	SIZE RANGE	SCALE	ROCKWELL HARDNESS
E	E4-SE6	15N	79-82*
All	YE6-YE14	15N	79-82
	E14-SE31	30N	56.5-62
	E37+	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					
E	E6 -SE6	15N	84.5-87*					
All	YE6-YE14	15N	84.5-87					
	E14-SE31	30N	66.5-71					
	E37+	C	47-52					

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