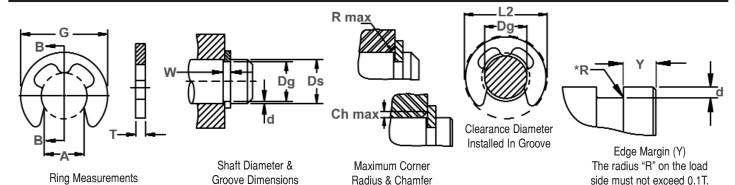


## Radially Assembled, External E, Metric

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.



RING	NOM	SHAFT			GROOV	/E SIZ	'E		RING	SIZE	& WEIG	HT	CLE	ARANCE			SUPI	PLEMENT	ARY DATA		
NO.	SIZE	DIA.		DIAI	METER	W	DTH		KNESS	(	AP	WEIGHT	FREE	IN-	EDGE	Thrust	THRU	ST LOAD	Allow-	Max.	RPM
		(mm)						1	***				0.D.	STALLED	MARGIN	Load	Gr	oove	able	load w/	Limits
														IN		Ring*	(w/s	mallest	Rad/	R/Ch	
														GROOVE			liste	ed Ds)	Cham	Max.	
	Dg	From	To	Dg	Tol.	W	Tol.	T	Tol.	Α	Tol.	kg/	G	L2	Y	Pr	Pg	Ds'	R/Ch	P'r	
												1000	Ref.	Max.	Min.	kN	kN		Max.	kN	
DE-0,8	0,8	1	1,4	0,8	-0,04			-,-		0,58		0,003	1,95	2,25	0,4	0,08	0,03	1,2	0,3	0,04	50000
DE-1,2	1,2	1,4	2,0	1,2		0,34		0,3		1,01		0,009	2,9	3,25	0,6	0,12	0,04	1,5	0,4	0,06	47000
DE-1,5	1,5	2,0	2,5	1,5	-0,06	0,54		0,4	]	1,28		0,021	3,9	4,25	0,8	0,22	0,07	2,0	0,6	0,11	42000
DE-1,9	1,9	2,5	3,0	1,9				0,5		1,61	0,040	4,40	4,8	1,0	0,35	0,10	2,5	0,7	0,17	40000	
DE-2,3	2,3	3,0	4,0	2,3		0,64	0,6	1,94		0,069	5,90	6,3	1,0	0,50	0,15	3,0	0,9	0,24	38000		
DE-3,2	3,2	4,0	5,0	3,2		0,64		0,6	±0,02	2,70		0,088	6,90	7,3	1,0	0,65	0,22	4,0	0,9	0,32	35000
DE-4	4,0	5,0	7,0	4,0	-0,075	0,74	+0,05	0,7		3,34		0,158	8,85	9,3	1,2	0,95	0,25	5,0	1,0	0,47	32000
DE-5	5,0	6,0	8,0	5,0		0,74	-0,00	0,7		4,11	$\pm 0,048$	0,236	10,85	11,3	1,2	1,15	0,90	7,0	1,0	0,60	28000
DE-6	6,0	7,0	9,0	6,0		0,74		0,7		5,26		0,255	11,8	12,3	1,2	1,35	1,10	8,0	1,1	0,70	25000
DE-7	7,0	8,0	11,0	7,0		0,94		0,9		5,84		0,474	13,8	14,3	1,5	1,80	1,25	9,0	1,3	1,00	22000
DE-8	8,0	9,0	12,0	8,0	-0,09	1,05		1,0		6,52		0,660	15,75	16,3	1,8	2,50	1,42	10,0	1,5	1,25	20000
DE-9	9,0	10,0	14,0	9,0	]	1,15	]	1,1		7,63	$\pm 0,058$	1,090	18,20	18,8	2,0	3,00	1,60	11,0	1,6	1,50	17000
DE-10	10,0	11,0	15,0	10,0		1,25		1,2		8,32		1,250	19,70	20,4	2,0	3,50	1,70	12,0	1,8	1,75	15000
DE-12	12,0	13,0	18,0	12,0	-0,11	1,35	+0,08	1,3	±0,03	±0,03 10,45		1,630	22,7	23,4	2,5	4,70	3,10	15,0	1,9	2,30	13000
DE-15	15,0	16,0	24,0	15,0		1,55	-0,00	1,5		12,61	±0,07	3,370	28,70	29,4	3,0	7,80	7,00	20,0	2,2	3,30	11000
DE-19	19,0	20,0	31,0	19,0		1,80		1,75		15,92		6,420	36,50	37,6	3,5	11	10,00	25,0	2,5	3,60	7600
DE-24	24,0	25,0	38,0	24,0	-0,13	2,05		2,00		21,88	$\pm 0,084$	8,550	43,50	44,6	4,0	15	13,00	30,0	3,0	4,00	5500
DE-30	30,0	32,0	42,0	30,0	]	2,55		2,50		25,80		13,50	51,3	52,6	4,5	23,00	16,50	36,0	3,5	5,30	4200
*SHARP	CODNE	D ARIIT	MENT								•										

SHARP CORNER ABUTMENT.

ALL DIMENSIONS IN MILLIMETERS.

The radius "R" on the load side must not exceed 0.1T.

\*\*\* 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.

NOTE: GROOVE WIDTH MUST BE INCREASED FOR PLATED PARTS. PLEASE CONTACT TECHNICAL SALES FOR ADDITIONAL INFORMATION: tech@rotorclip.com.

HADDNESS DANICES, STAINLESS STEEL DINICS (DL 15 7MO)

TIANDINESS HANGES. STAINLESS STELL HINGS (FIT 15-7MO)									
RING TYPE	SIZE RANGE	HARDNESS							
		VICKERS	ROC	KWELL					
			HRC	LOWER SCALE*					
DE	0.8-1.5	435-530	44-51	82.5-86 HR15N**					
	1.9	435-530	44-51	82.5-86 HR15N					
	2.3-9	435-530	44-51	63-69.5 HR30N					
	10-30	435-530	44-51	•					

<sup>\*</sup>WHERE APPLICABLE

HARDNESS RANGES: STAINLESS STEEL RINGS (DIN 1.4122 X39CrMo17)

RING	SIZE	HARDNESS						
TYPE	RANGE	HV	HRC	15N	30N			
DE	ALL	471-577	47-54	83.9-87.4	65.8-72			

Installation tools can be found at rotorclip.com/pliers\_tools\_applicators\_kits

HARDNESS	HARDNESS RANGES: BERYLLIUM CUPPER RINGS									
RING TYP	E SIZE RANGE	HARDNESS								
		VICKERS	KWELL							
			HRC	LOWER SCALE*						
DE	0.8-1.5	360-415	37-43	79-82 HR15N**						
DL	1.9	360-415	37-43	79-82 HR15N						
	2.3-9	360-415	37-43	56.5-62 HR30N						
	10-30	360-415	37-43	-						

<sup>\*</sup>WHERE APPLICABLE

HARDNESS RANGES: CARRON STEEL RINGS (SAF 1060-1090)

TIANDINESS HAINGES. CANDON STELL HINGS (SAL 1000-1090)									
RING TYPE	SIZE RANGE	HARDNESS							
		VICKERS	ROCKWELL						
			HRC	LOWER SCALE*					
DE	0.8-1.5	460-580	46-54	83.5-87.5 HR15N**					
DL	1.9	460-580	46-54	83.5-87.5 HR15N					
	2.3-9	460-580	46-54	65-72 HR30N					
	10-30	460-580	46-54						

<sup>\*</sup>WHERE APPLICABLE

<sup>\*\*</sup>HARDNESS CAN NOT BE CHECKED WITH ANY DEGREE OF ACCURACY DIRECTLY ON THESE RINGS.

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