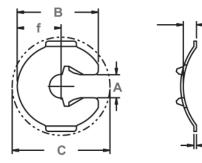
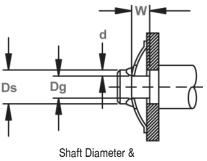


## Radially Assembled, External Bowed Locking

Another variation of a bowed E ring is the EL. In addition to the bowed design for eliminating "play" in an assembly, it also features two prongs, which extend from the inner circumference to the open end locking the ring firmly into place.



Ring Measurements



Groove Dimensions

RING	SHAFT GROOVE SIZE				RING SIZE & WEIGHT							CLR. DIA.	îTHRUS	ST LOAD						
NO.	DIAMETER																	(lbs.sq. corr	er abutment)	
			DIAMETER WIDTH		DEPTH	TH LENGTH		THICKNESS*** BO		BOW HEIGHT GAP		iap	WGHT. PER 1000	Released In Groove	Ring Safety	Groove Safety				
																	Pcs.		Factor Of 3	Factor Of 3
	DEC	Tol.	FRACT	Da	Tol.	W	TOL.	d	P	Tol.		Tol.	Bh	Tol.	Λ	Tol.	LBS.	C	Pr	Pg
EL 0	.092	101.	3/32	.061		.035	TUL.	.016	.307	101.	010	101.		101.	A 062	101.	.23	.370	80	35
EL-9					±.001						.010		.050		.063					
EL-12		±.002			±.0015			.021	.307		.010	±.001	.050			±.004		.370	102	60
EL-18	.188		3/16	.124	±.002	.045	+.005	.032	.390	±.010	.015		.060	±.010	.130		.47	.480	203	140
EL-25	.250	±.003	1/4	.165		.055	000	.042	.500	1	.015	±.002	.070		.172	±.005	.77	.620	305	250
EL-31	.312		5/16	.228	±.003	.080		.042	.620	1	.015		.095		.234		1.3	.790	355	300
EL-37	.375		3/8	.270		.095		.052	.740		.020		.130		.280		2.2	.940	555	450

î 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 DEPARTMENT.

·Bh

LARGER SIZES MAY BE AVAILABLE UPON REQUEST.

60

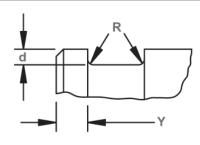
\*\*\*For plated rings, add .002" to the listed maximum thickness.

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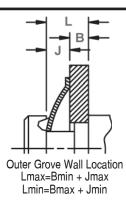
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R





Exploded Groove Profile & Edge Margin (Y) Maximum bottom radii (R) .005 for ring sizes -9 thru -25; .010 for ring sizes -31 thru -37



RING NO.	OUTER WALL 1 OF RET	ANCE Groove To face Tained Rt	RESILIENT TAKE-UP OF TOLERANCES OF A&B	FORCE NEEDED TO FLATTEN RINGS	RESI RES. WIT	APPROX. AV RESILIENT RES. (Ibs) WITHIN J MAX. & J MIN		EDGE MARGIN
	J MIN.	J MAX.	J MAX J MIN.	LBS.	IN- STALLED	FLAT- TENED	f REF.	- y
EL-9	.030	.038	.008	30	9	3.5	.166	.031
EL-12	.030	.040	.010	30	8	3.0	.166	.043
EL-18	.039	.049	.010	60	20	5.5	.213	.064
EL-25	.045	.060	.015	60	15	7.0	.280	.085
EL-31	.070	.085	.015	60	6	4.0	.360	.084
EL-37	.080	.105	.025	80	19	7.0	.427	.105

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

RING TYPE	SIZE RANGE	SCALE	ROCKWELL HARDNESS
	9&12	15N	82.5-86*
EL	18-31	15N	82.5-86
	37	30N	63-69.5

HARDNESS RANGES: BERYLLIUM COPPER RINGS

RING TYPE	SIZE RANGE	SCALE	ROCKWELL HARDNESS
EL	9&12	15N	77-82*
	18-37	15N	77-82

## HARDNESS RANGES: CARBON STEEL RINGS (SAE 1060-1090)

RING TYPE	SIZE RANGE	SCALE	ROCKWELL HARDNESS
EL	9&12	15N	83.5-86*
	18&25	15N	83.5-86
	31&37	30N	65-69.5

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