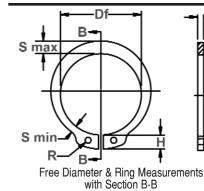
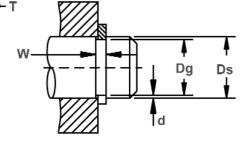


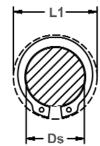
Axially Assembled, External Reinforced

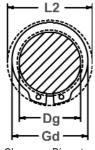
The SHR is an extra thick version of a regular SH retaining ring. As such, it is stronger and can withstand greater thrust loads than its standard counterpart.





Shaft Diameter & Groove Dimensions





Clearance Diameter Expanded Over Shaft

Clearance Diameter & Gaging Diameter Released in Groove

RING	SHAFT			GROOVE SIZE					RING SIZE & WEIGHT				CLEAR. DIA.		î THRUST LD. (lbs.)		
NO.	DIAMETER			DIAM	ETER	w	DTH	DEPTH	FR	EE	THICKNESS***		Weight	Ex-	Re-	Sqr. corner abutment	
									DIAM	ETER			Per	panded	leased	Ring	Groove
													1000	over	in	Safety	Safety
													pcs.	shaft	groove	factor of 4	factor of 2
	Ds	Ds	Ds														
	DEC	FRAC	mm	Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	lbs.	L1	L2	Pr	Pg
SHR-39	.394	-	10.0	.368	+.001	.039		.013	.362	+.003	.035		.70	.61	.58	2030	700
SHR-42	.428	-	10.9	.402	002	.039	+.003	.013	.394	008	.035		.86	.65	.62	2335	800
SHR-47	.473	-	12.0	.444	.002*	.046	000	.015	.435		.042		1.4	.69	.66	3045	1000
SHR-50	.500	1/2	12.7	.468		.056		.016	.460		.050	±.002	1.6	.75	.72	3959	1100
SHR-59	.591	-	15.0	.555		.056	+.004	.018	.543		.050		2.2	.86	.83	4568	1500
SHR-62	.625	5/8	15.9	.588		.056	000	.019	.575		.050		2.3	.90	.86	4872	1600
SHR-66	.669	-	17.0	.629		.056		.020	.616	+.005	.050		2.6	.94	.90	5278	1900
SHR-75	.750	3/4	19.0	.704	+.001	.086		.023	.689	010	.078		5.6	1.12	1.08	9135	2400
SHR-75	.787	-	20.0	.740	003	.086		.024	.689		.078		5.6	1.16	1.12	9135	2400
SHR-87	.875	7/8	22.2	.821	.002*	.086		.027	.804		.078		7.5	1.25	1.20	10556	3300
SHR-98	.984	63/64	25.0	.925		.086		.030	.906		.078		7.8	1.36	1.30	11673	4000
SHR-98	1.000	1	25.4	.938		.086		.031	.906		.078		7.8	1.37	1.31	11673	4000
SHR-106	1.062	1-1/16	27.0	.998		.103		.032	.978		.093		11.5	1.52	1.46	15225	4800
SHR-112	1.125	1-1/8	28.6	1.059		.103	+.005	.033	1.036		.093	±.003	12.5	1.58	1.52	16240	5200
SHR-118	1.181	-	30.0	1.111		.103	000	.035	1.087	+.010	.093		13.5	1.64	1.57	16748	5600
SHR-118	1.188	1-3/16	30.2	1.111	+.002	.103		.038	1.087	015	.093		13.5	1.64	1.57	16748	5600
SHR-125	1.250	1-1/4	31.7	1.174	004	.103		.038	1.150		.093		14.9	1.70	1.63	17763	6500
SHR-131	1.312	1-5/16	33.3	1.234	.004*	.103		.039	1.208		.093		16.0	1.77	1.69	18270	7400
SHR-137	1.375	1-3/8	34.9	1.291		.103		.042	1.268		.093		17.8	1.83	1.75	19793	8200
SHR-137	1.378	-	35.0	1.291		.103		.044	1.268		.093		17.8	1.83	1.75	19793	8200
SHR-150	1.500	1-1/2	38.1	1.406		.120		.047	1.380		.109		27.0	2.08	1.98	24868	10000
SHR-156	1.562	1-9/16	39.7	1.468		.120		.047	1.437		.109		31.0	2.14	2.05	26390	10400
SHR-156	1.575	-	40.0	1.480		.120		.048	1.437		.109		31.0	2.15	2.06	26930	10400
SHR-175	1.750	1-3/4	44.4	1.650		.120		.050	1.608		.109		33.4	2.34	2.25	29435	12400
SHR-175	1.772	-	45.0	1.669	+.003			.052	1.608	+.013	.109	. 00.1	33.4	2.37	2.27	29435	12400
SHR-193	1.938	1-15/16	49.2	1.826	004	.139		.056	1.782	020	.125	±.004	48.0	2.58	2.48	37555	15300
SHR-193	1.969	1-31/32	50.0	1.850	.004*	.139	+.006	.060	1.782	.	.125		48.0	2.61	2.50	37555	15300
SHR-200	2.000	2	50.8	1.880		.139	000	.060	1.840		.125		50.6	2.64	2.53	38570	17000

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

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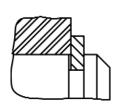
*** FOR PLATED RINGS, ADD .002" TO THE LISTED MAXIMUM THICKNESS.MAXIMUM RING THICKNESS WILL BE A MINIMUM OF .0002" LESS THAN THE LISTED GROOVE WIDTH (W) MINIMUM.

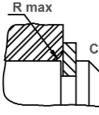
(R)

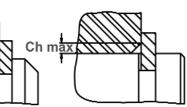
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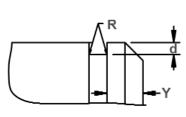
1.800.557.6867 • +1 732.469.7333 • sales@rotorclip.com











Square Corner Abutment

Maximum Corner Radius & Chamfer

Exploded Groove Profile & Edge Margin (Y)Maximum bottom radii (R), .005 for ring sizes -39 thru -98; -010 for ring sizes -106 thru -200

Alternate Design (Manufacturer's Option)

RING No.	LU		MAXI Sect		MINII SECT		HC Diam	LE	GAGING DIA.		NABLE	MAX Load	EDGE Margin	R.P.M. Limits
NU.		111	3201		3601		DIAM	LICH	DIA.	RAI Chan	III & IFERS	w/ R max or Ch max (in lbs.)	MARGIN	Stan- dard material
	Н	Tol.	S max	Tol.	S min	Tol.	R	Tol.	Gd Max	R max	Ch max	P'r	Y	
SHR-39	.101		.068		.039		.042		.479	.047	.039	450	.039	80000
SHR-42	.101		.076	±.004	.043	±.004	.042		.525	.057	.046	530	.039	72000
SHR-47	.101	±.004	.088		.053		.042	+.010	.589	.070	.058	550	.045	69000
SHR-50	.120		.090		.050		.050	002	.613	.070	.058	650	.048	65000
SHR-59	.130		.102		.057		.050		.719	.070	.058	750	.054	52500
SHR-62	.130		.106	±.005	.059	±.005	.050		.758	.074	.062	750	.057	49000
SHR-66	.130		.112		.062		.050		.808	.077	.064	900	.060	45000
SHR-75	.180		.127		.077		.078		.913	.089	.074	2500	.069	40500
SHR-75	.180		.127		.077		.078		.949	.089	.074	2500	.072	38000
SHR-87	.180		.148	±.006	.083	±.006	.078		1.056	.100	.083	2500	.081	34000
SHR-98	.180		.151		.084		.078		1.164	.100	.083	2500	.090	30000
SHR-98	.180		.151		.084		.078		1.177	.100	.083	2500	.093	30000
SHR-106	.220		.161		.090		.093		1.256	.106	.088	4000	.096	27000
SHR-112	.220		.169		.095		.093		1.329	.112	.093	4000	.099	26000
SHR-118	.220		.176		.098		.093		1.391	.112	.093	4000	.105	24000
SHR-118	.220	±.005	.176	±.007	.098	±.007	.093		1.391	.112	.093	4000	.114	24000
SHR-125	.220		.185		.103		.093		1.468	.112	.093	4000	.114	23000
SHR-131	.220		.192		.106		.093		1.538	.128	.107	4000	.117	21500
SHR-137	.220		.200		.110		.093		1.607	.128	.107	4000	.126	20500
SHR-137	.220		.200		.110		.093		1.607	.128	.107	4000	.132	20500
SHR-150	.280		.218		.123		.109	+.015	1.752	.128	.107	5000	.141	18500
SHR-156	.280		.228		.127		.109	002	1.829	.128	.107	5000	.141	17000
SHR-156	.280		.228		.127	0.00	.109		1.841	.128	.107	5000	.144	17000
SHR-175	.290		.254	±.008	.140	±.008	.109		2.050	.128	.107	5000	.150	15500
SHR-175	.290		.254		.140		.109		2.069	.128	.107	5000	.156	15500
SHR-193	.314		.280		.154		.125		2.265	.153	.128	6000	.168	14300
SHR-193	.314	±.006	.280		.154		.125		2.289	.153	.128	6000	.180	14100
SHR-200	.314		.290		.160		.125		2.334	.153	.128	6000	.180	14000

LARGER SIZES MAY BE AVAILABLE UPON REQUEST.

R

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

RING TYPE	SIZE RANGE	SCALE	ROCKWELL HARDNESS
SHR	39-42	30N	63-69.5
	47+	С	44-51

HARDNESS RANGES: BERYLLIUM COPPER RINGS

RING TYPE	SIZE RANGE	SCALE	ROCKWELL HARDNESS
SHR	39-42	30N	54-62
	47+	C	34-43

HADDNESS DANGES.	CARRON STEEL DI	NGS (SAE 1060-1090)
HANDINLOS HANGLS.	UANDON STELL INI	VUS (SAL 1000-1030)

RING TYPE	SIZE RANGE	SCALE	ROCKWELL HARDNESS
SHR	39-62	30N	67.5-72
	66+	С	47-52

