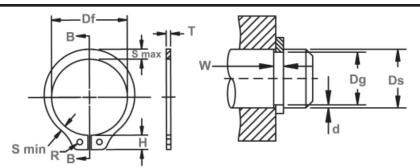
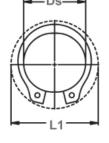
Axially Assembled, External



Once installed in the groove of a shaft, the portion of the ring protruding from the groove (also called a "shoulder") holds an assembly in place.







Free Diameter & Ring Measurements with Section B-B

Shaft Diameter & **Groove Dimensions**

Clearance Diameter **Expanded Over Shaft**

Clearance Diameter & Gaging Diameter Released in Groove.

RING		SHAFT			GR	OOVE S	17F			RING	SIZE &	WEIGHT		CLEARA	NCE DIA.	î THRUST	LD.(lbs.)
NO.		DIAMETER	}	DIAN	METER		DTH	DEPTH	FF	REE		IESS***	Weight	Ex-	Re-	Sqr. Corner	
									DIAN	1ETER			Per	panded	leased	Ring	Groove
													1000	over	in	Safety	Safety
													pcs.	Shaft	Groove	Factor	Factor
	Do	Ds	Ds	ļ												of 4	of 2
	Ds DEC	FRAC	mm	Da	Tol.	W	Tol.	d	Df	Tol.	Т	Tol.	lbs.	L1	L2	Pr	Pg
**SH-12	.125	1/8	3.2	.117	101.	.012	101.	.004	.112	101.	.010	±.001	.018	.222	.214	112	35
**SH-15	.156	5/32	4.0	.146	1 1	.012	1	.005	.142		.010	±.001	.037	.27	.260	132	55
**SH-18	.188	3/16	4.8	.175	±.0015	.012	+.002	.006	.168	+.002	.015		.059	.298	.286	244	80
**SH-19	.197	-	5.0	.185	.0015*	.018	000	.006	.179	004	.015	1	.063	.319	.307	254	85
**SH-21	.219	7/32	5.6	.205	1.0010	.018	.000	.007	.196	.001	.015		.074	.338	.324	284	110
**SH-23	.236	15/64	6.0	.222	1 1	.018	1	.007	.215		.015	1	.086	.355	.341	315	120
SH-25	.250	1/4	6.4	.230	1 1	.029		.010	.225		.025	1	.21	.45	.43	599	175
SH-27	.276	-	7.0	.255		.029	1	.010	.250		.025	1	.23	.48	.46	660	195
SH-28	.281	9/32	7.1	.261	1 1	.029	1	.010	.256		.025	1	.24	.49	.47	670	200
SH-31	.312	5/16	7.9	.290	1 1	.029	1	.011	.281		.025	1	.27	.54	.52	751	240
SH-34	.344	11/32	8.7	.321	±.002	.029	1	.011	.309		.025	1	.31	.57	.55	812	265
SH-35	.354	-	9.0	.330	.002*	.029]	.012	.320	+.002	.025		.35	.59	.57	832	300
SH-37	.375	3/8	9.5	.352] [.029]	.012	.338	005	.025		.39	.61	.59	883	320
SH-39	.394	-	10.0	.369		.029		.012	.354		.025		.42	.62	.60	954	335
SH-40	.406	13/32	10.3	.382]	.029		.012	.366		.025		.43	.63	.61	964	350
SH-43	.438	7/16	11.1	.412		.029		.013	.395		.025		.50	.66	.64	1035	400
SH-46SP1	.461	-	11.7	.435		.029		.013	.420		.025		.51	.68	.66	1110	460
SH-46	.469	15/32	11.9	.443		.029		.013	.428		.025	±.002	.54	.68	.66	1117	450
SH-50	.500	1/2	12.7	.468	±.002	.039	+.003	.016	.461		.035		.91	.77	.74	1675	550
SH-55	.551	-	14.0	.519	.004*	.039	000	.016	.509		.035		.90	.81	.78	1800	600
SH-56	.562	9/16	14.3	.530		.039		.016	.521		.035		1.1	.82	.79	1878	650
SH-59	.594	19/32	15.1	.559		.039		.017	.550		.035		1.2	.86	.83	1979	750
SH-62	.625	5/8	15.9	.588		.039		.018	.579		.035		1.3	.90	.87	2091	800
SH-66 SH-66	.669	43/64	17.0	.629		.039	-	.020	.621 .621	+.005	.035		1.4	.93	.89	2233	950 950
SH-68	.688	11/16	17.1 17.5	.631		.039	-	.020	.635	010	.035		1.4 1.8	.93 1.01	.89	2233 3451	1000
SH-75	.750	3/4	19.0		±.003	.046	-	.023	.693		.042		2.1	1.09	1.05	3756	1200
SH-78	.781	25/32	19.0	.704	.004*	.046	ł	.023	.722		.042		2.2	1.12	1.03	3959	1300
SH-81	.812	13/16	20.6	.762	.004	.046	1	.024	.751		.042		2.5	1.15	1.10	4060	1450
SH-84	.844	13/10	21.4	.791	1 1	.046	1	.026	.780		.042	1	2.7	1.18	1.13	4200	1500
SH-87	.875	7/8	22.2	.821		.046	1	.020	.810		.042		2.8	1.21	1.16	4365	1650
SH-93	.938	15/16	23.8	.882		.046	1	.028	.867		.042		3.1	1.34	1.29	4720	1850
SH-98	.984	63/64	25.0	.926		.046	1	.029	.910		.042		3.5	1.39	1.34	4923	2000
SH-100	1.000	1	25.4	.940		.046	1	.030	.925		.042		3.6	1.41	1.35	5024	2100
SH-102	1.023	-	26.0	.961		.046	1	.031	.946		.042		3.9	1.43	1.37	5126	2250
SH-106	1.062	1-1/16	27.0	.998	±.004	.056	+.004	.032	.982	+.010	.050		4.8	1.50	1.44	6293	2400
SH-112	1.125	1-1/8	28.6	1.059	.005*	.056	000	.033	1.041	015	.050	1	5.1	1.55	1.49	6699	2600
оп-112	1.125	I-1/0	20.0	1.059	.005^	.000	000	.033	1.041	015	.000		J. I	1.00	1.49	0099	2000

^{**}SIZES -12 THRU -23 ARE AVAILABLE IN BERYLLIUM COPPER ONLY.

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

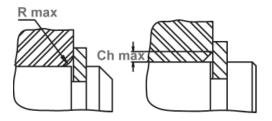
I BASED ON HOUSINGS/SHAFTS MADE OF COLD ROLLED STEEL. FOR AN EXPLANATION OF FORMULAS USED TO DERIVE THRUST LOAD AND OTHER PERFORMANCE DATA CONTACT THE ROTOR CLIP ENGINEERING DEPARTMENT.

^{***}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.

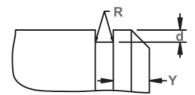
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Exploded Groove Profile & Edge Margin (Y) Maximum bottom radii (R), sharp corners for ring sizes -12 thru -23; .003 for ring sizes -25 thru -35; .005 for sizes -37 thru -100; .010 for ring sizes -102 thru -1000



Lug Design For Sizes SH-12 thru SH-23



Alternate Design Manufacturer's Option

RING NO.	LL Hei	JG CUT		IMUM TION		MUM TION)LE Ieter	GAGING DIA.		NABLE RNER	MAX.	EDGE MAR-	R.P.M. LIMITS
NU.	ПЕН	ι пк	SEC	IIUN	SEU	IIUN	DIAIV	IEIEN	DIA.		OII &	w/R max	GIN	Stan-
											MFERS	or	u	dard
												Ch max		Material
												(lbs.)		
	Н	Tol.	S max	Tol.	S min	Tol.	R	Tol.	Gd Max	R max	Ch max	P'r	Y	RPM
**SH-12	.046		.018	±.0015	.011	±.0015	.026		.148	.010	.006	45	.012	80000
**SH-15	.054		.026	1	.016	1	.026		.189	.015	.009	45	.015	80000
**SH-18	.050	$\pm .002$.025		.016		.026		.218	.014	.0085	105	.018	80000
**SH-19	.056		.026	±.002	.016	±.002	.026		.229	.0145	.009	105	.018	80000
**SH-21	.056		.028		.017		.026		.252	.015	.009	105	.021	80000
**SH-23	.056		.030		.019		.026		.272	.0165	.010	105	.021	80000
SH-25	.080		.035		.025		.041		.290	.018	.011	470	.030	80000
SH-27	.081		.035		.024		.041		.315	.0175	.0105	470	.031	76000
SH-28	.080		.038		.025		.041		.326	.020	.012	470	.030	74000
SH-31	.087		.040		.026		.041		.357	.020	.012	470	.033	70000
SH-34	.087		.042		.0265		.041		.390	.021	.0125	470	.033	64000
SH-35	.087		.046	±.003	.029	±.003	.041		.405	.023	.014	470	.036	62000
SH-37	.088		.050		.0305		.041	+.010	.433	.026	.0155	470	.036	60000
SH-39	.087	$\pm .003$.052		.031		.041	002	.452	.027	.016	470	.037	56500
SH-40	.087		.054		.033		.041		.468	.0285	.017	470	.036	55000
SH-43	.088		.055		.033		.041		.501	.029	.0175	470	.039	50000
SH-46SP1	.092		.064		.038		.041		.540	.015	.017	470	.039	42000
SH-46	.088		.060		.035		.041		.540	.031	.018	470 910	.039	42000 40000
SH-50 SH-55	.108		.065		.040		.047		.574	.034	.0165	910	.048	36000
SH-56	.108		.072		.030		.047		.644	.038	.023	910	.048	35000
SH-59	.109		.072	±.004	.043	±.004	.047		.680	.0395	.0235	910	.052	32000
SH-62	.110		.080	±.004	.045	±.004	.047		.715	.0333	.025	910	.055	30000
SH-66	.110		.082		.043		.047		.756	.040	.024	910	.060	29000
SH-66	.110		.082		.043		.047		.758	.040	.024	910	.060	29000
SH-68	.136		.084		.048		.052		.779	.042	.025	1340	.063	28000
SH-75	.136		.092	1	.051	1	.052		.850	.046	.0275	1340	.069	26500
SH-78	.136		.094	1	.052	1	.052		.883	.047	.028	1340	.072	25500
SH-81	.136		.096		.054	1	.052		.914	.047	.028	1340	.075	24500
SH-84	.137		.100	1	.057	1	.052		.950	.047	.028	1340	.078	24000
SH-87	.137	±.004	.104	±.005	.057	±.005	.052		.987	.051	.0305	1340	.081	23000
SH-93	.166		.110		.063		.078		1.054	.055	.033	1340	.084	21500
SH-98	.167		.114		.064]	.078		1.106	.056	.0335	1340	.087	20500
SH-100	.167		.116		.065		.078	+.015	1.122	.057	.034	1340	.090	20000
SH-102	.168		.118		.066		.078	002	1.147	.058	.035	1340	.093	19500
SH-106	.181		.122	±.006	.069	±.006	.078		1.192	.060	.036	1950	.096	19000
SH-112	.182		.128		.071		.078		1.261	.063	.038	1950	.099	18800

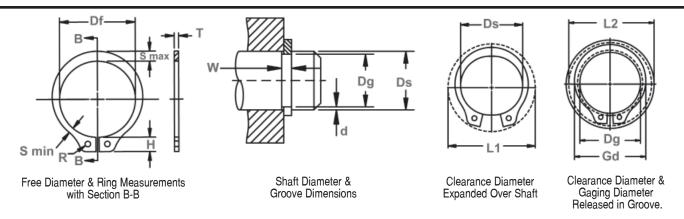
FOR HARDNESS SPECIFICATIONS, SEE END OF THIS SECTION.

Note: Specifications listed within the catalog tables reflect Rotor Clip's standard commercial production dimensions. Published retaining ring standards including Military (MIL-DTL-21248D) / ASME / NAS / ANSI may require parts with alternative geometry. Please contact Rotor Clip Technical Sales Department to clarify conformance to specific requirements. (Tech@rotorclip.com or +1-732-469-7333.)

Axially Assembled, External



Once installed in the groove of a shaft, the portion of the ring protruding from the groove (also called a "shoulder") holds an assembly in place.



RING		SHAFT			GI	ROOVE S					SIZE &			CLEARA	NCE DIA.		T LD.(lbs.)
NO.	[DIAMETER	}	DIAM	IETER	WII	DTH	DEPTH		EE Ieter	THICK	NESS***	Weight	Ex-	Re-		er Abutment
									DIAIN	IETEK			Per 1000	panded over	leased in	Ring Safety	Groove Safety
													pcs.	Shaft	Groove	Factor	Factor
																of 4	of 2
	Ds	Ds	Ds	<u> </u>					<u> </u>								
CH 110	DEC 1.188	FRAC	mm 30.2	Dg 1 1 1 0	Tol.	.056	Tol.	.035	Df	Tol.	.050	Tol.	Ibs. 5.6	L1	L2	Pr 7105	Pg 2950
SH-118 SH-125	1.250	1-3/16 1-1/4	31.7	1.118		.056		.035	1.098 1.156		.050		5.9	1.61 1.69	1.54 1.62	7460	3250
SH-131	1.312	1-5/16	33.3	1.232	±.004	.056		.040	1.214	+.010	.050	±.002	6.8	1.75	1.67	7866	3700
SH-137	1.375	1-3/8	34.9	1.291	.005*	.056		.042	1.272	015	.050	±.002	7.2	1.80	1.72	8222	4100
SH-143	1.438	1-7/16	36.5	1.350	.005	.056		.044	1.333	013	.050	1 1	8.1	1.87	1.79	8628	4500
SH-150	1.500	1-1/2	38.1	1.406		.056		.047	1.387		.050		9.0	1.99	1.90	8932	5000
SH-156	1.562	1-9/16	39.7	1.468		.068	1	.047	1.446		.062		12.4	2.10	2.01	11571	5200
SH-162	1.625	1-5/8	41.3	1.529		.068	+.004	.048	1.503		.062		13.2	2.17	2.08	12028	5500
SH-168	1.688	1-11/16	42.9	1.589		.068	000	.049	1.560		.062		14.8	2.24	2.15	12535	5850
SH-175	1.750	1-3/4	44.4	1.650	±.005	.068		.050	1.618	+.013	.062		15.3	2.31	2.21	12992	6200
SH-177	1.772	- 1	45.0	1.669	.005*	.068	1	.051	1.637	020	.062		15.4	2.33	2.23	13144	6400
SH-181	1.812	1-13/16	46.0	1.708		.068	1	.052	1.675		.062		15.6	2.38	2.28	13449	6650
SH-187	1.875	1-7/8	47.6	1.769		.068]	.053	1.735		.062		17.3	2.44	2.34	13906	7000
SH-196	1.969	1-31/32	50.0	1.857		.068		.056	1.819		.062		18.0	2.57	2.46	14565	7800
SH-200	2.000	2	50.8	1.886		.068		.057	1.850		.062		19.0	2.60	2.49	14819	8050
SH-206	2.062	2-1/16	52.4	1.946		.086		.058	1.906		.078		25.0	2.68	2.57	19234	8450
SH-212	2.125	2-1/8	54.0	2.003		.086		.061	1.964		.078		26.1	2.78	2.66	19793	9150
SH-215	2.156	2-5/32	54.8	2.032		.086		.062	1.993		.078		26.3	2.81	2.69	20097	9450
SH-225	2.250	2-1/4	57.1	2.120		.086		.065	2.081	+.015	.078	±.003	27.7	2.88	2.76	21011	10350
SH-231	2.312	2-5/16	58.7	2.178		.086		.067	2.139	025	.078		28.0	2.94	2.81	21518	10950
SH-237	2.375	2-3/8	60.3	2.239		.086		.068	2.197		.078		29.2	3.06	2.93	22127	11400
SH-243	2.438	2-7/16	61.9	2.299		.086		.069	2.255		.078		29.5	3.07	2.94	22736	11900
SH-250	2.500	2-1/2	63.5 65.0	2.360		.086		.070	2.313		.078		29.7	3.17 3.18	3.03	23345	12350
SH-255 SH-262	2.559	2-5/8	66.7	2.419	±.006	.086	+.005	.070 .072	2.377		.078 .078		33.9 35.0	3.30	3.04 3.16	23853 24462	12650 13350
SH-268	2.688	2-11/16	68.3	2.541	.006*	.086	000	.072	2.426		.078		36.0	3.37	3.10	25071	13850
SH-275	2.750	2-3/4	69.8	2.602	.000	.103	000	.073	2.543		.078		42.5	3.48	3.34	30551	14400
SH-287	2.875	2-7/8	73.0	2.721		.103		.077	2.659		.093		48.5	3.60	3.45	31973	15650
SH-293	2.938	2-15/16	74.6	2.779		.103		.079	2.717	+.020	.093		50.0	3.66	3.51	32683	16400
SH-300	3.000	3	76.2	2.838		.103		.081	2.775	030	.093		52.0	3.60	3.44	33394	17200
SH-306	3.062	3-1/16	77.8	2.898		.103	1	.082	2.832	1000	.093		47.5	3.74	3.58	34003	17750
SH-312	3.125	3-1/8	79.4	2.957		.103	1	.084	2.892		.093		58.0	3.85	3.69	34815	18550
SH-315	3.156	3-5/32	80.2	2.986		.103		.085	2.920		.093		59.0	3.88	3.71	35119	18950
SH-325	3.250	3-1/4	82.5	3.076		.103		.087	3.006		.093		62.0	3.93	3.76	36134	20000
SH-334	3.346	3-11/32	85.0	3.166		.103	1	.090	3.092		.093		64.0	4.02	3.85	37251	21000
SH-343	3.438	3-7/16	87.3	3.257		.103]	.090	3.179		.093		66.0	4.14	3.96	38266	21900
SH-350	3.500	3-1/2	88.9	3.316		.120		.092	3.237		.109		72.0	4.16	3.98	45574	22800

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



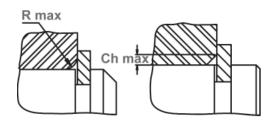
AND OTHER PERFORMANCE DATA CONTACT THE ROTOR CLIP ENGINEERING DEPARTMENT.

***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.

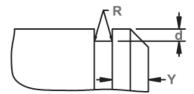
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Maximum Corner Radius & Chamfer



Exploded Groove Profile & Edge Margin (Y) Maximum bottom radii (R), sharp corners for ring sizes -12 thru -23; .003 for ring sizes -25 thru -35; .005 for sizes -37 thru -100; .010 for ring sizes -102 thru -1000



Lug Design For Sizes SH-12 thru SH-23



Alternate Design Manufacturer's Option

RING	LU			MUM		IMUM)LE	GAGING		VABLE	MAX.	EDGE	R.P.M.
NO.	HEI	GHT	SECT	TION	SEC	TION	DIAN	IETER	DIA.		NER	LOAD	MAR-	LIMITS
) &	w/ R max	GIN	Stan-
										CHAN	IFERS	Or Ch max		dard Material
												(lbs.)		Material
									Gd	1		(155.)		
	Н	Tol.	S max	Tol.	S min	Tol.	R	Tol.	Max.	R max	Ch max	P'r	Υ	RPM
SH-118	.182		.132		.072		.078		1.325	.064	.0385	1950	.105	18000
SH-125	.183		.140		.076		.078		1.396	.068	.041	1950	.111	17000
SH-131	.183		.146		.076		.078		1.458	.068	.041	1950	.120	16500
SH-137	.184		.152		.082		.078		1.529	.072	.043	1950	.126	16000
SH-143	.184		.160		.086		.078		1.600	.076	.045	1950	.132	15000
SH-150	.214	±.004	.168	±.006	.091	±.006	.120		1.668	.079	.047	1950	.141	14800
SH-156	.235		.172	l	.093		.125		1.740	.082	.049	3000	.141	14000
SH-162	.235		.180	l	.097		.125		1.812	.087	.052	3000	.144	13200
SH-168	.235		.184		.099		.125		1.877	.090	.054	3000	.148	13000
SH-175	.237		.188		.101		.125		1.945	.091	.054	3000	.150	12200
SH-177	.237		.190		.102		.125		1.967	.092	.055	3000	.154	11700
SH-181	.262		.192		.102		.125		2.010	.092	.055	3000	.156	11500
SH-187	.262		.196	l	.104		.125		2.076	.094	.056	3000	.159	11000
SH-196	.262		.200	l	.106		.125		2.170	.094	.056	3000	.168	10500
SH-200 SH-206	.262		.204		.108		.125 .125		2.205 2.275	.096	.057	3000 5000	.171	10000 9600
SH-212	.280		.212	-	.113		.125	+.015	2.337	.098	.059	5000	.174	9500
SH-215	.280		.212	-	.113		.125	002	2.366	.097	.058	5000	.186	9400
SH-225	.280		.220	-	.116		.125	002	2.466	.100	.060	5000	.195	9200
SH-231	.280		.222	1	.118		.125		2.528	.100	.060	5000	.201	9000
SH-237	.292		.224	1	.119		.125		2.591	.100	.060	5000	.204	8800
SH-243	.268	±.005	.228	±.007	.120	±.007	.125		2.657	.102	.061	5000	.207	8600
SH-250	.292	±.000	.232	007	.122	±.001	.125		2.724	.104	.062	5000	.210	8400
SH-255	.292		.238	ł	.125		.125		2.792	.108	.065	5000	.210	8200
SH-262	.292		.242	1	.127		.125		2.860	.1095	.066	5000	.216	8000
SH-268	.292		.292	i	.129		.125	1	2.926	.1115	.067	5000	.219	7900
SH-275	.324		.248	1	.131		.125	1	2.992	.112	.067	7350	.222	7600
SH-287	.324		.256	1	.133		.125		3.122	.115	.069	7350	.231	7300
SH-293	.324		.260	1	.136		.125	1	3.187	.116	.070	7350	.237	7200
SH-300	.264		.264	1	.138		.125	1	3.252	.117	.070	7350	.243	6700
SH-306	.300		.300		.131		.125	1	3.294	.107	.064	7350	.246	6600
SH-312	.324		.272	1	.141		.125	1	3.383	.120	.072	7350	.252	6600
SH-315	.324		.274	1	.143		.125	1	3.415	.1205	.072	7350	.255	6500
SH-325	.300		.300	±.008	.145	±.008	.125		3.515	.123	.074	7350	.261	6400
SH-334	.300		.300	1	.147		.125		3.613	.126	.076	7350	.270	6000
SH-343	.300		.300		.148		.125		3.712	.129	.077	7350	.270	5900
SH-350	.285		.285		.148		.125		3.764	.122	.073	10500	.276	5900

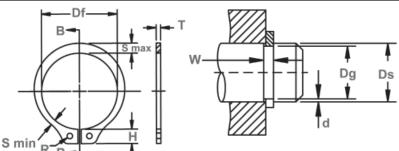
FOR HARDNESS SPECIFICATIONS, SEE END OF THIS SECTION.

Note: Specifications listed within the catalog tables reflect Rotor Clip's standard commercial production dimensions. Published retaining ring standards including Military (MIL-DTL-21248D) / ASME / NAS / ANSI may require parts with alternative geometry. Please contact Rotor Clip Technical Sales Department to clarify conformance to specific requirements. (Tech@rotorclip.com or +1-732-469-7333.)

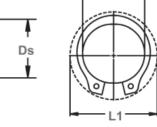
Axially Assembled, External

SH Shaft Rings

Once installed in the groove of a shaft, the portion of the ring protruding from the groove (also called a "shoulder") holds an assembly in place.







Clearance Diameter Expanded Over Shaft



Clearance Diameter & Gaging Diameter Released in Groove.

DIN O					000					BING				015151	105 511	^ TUBUO	
RING		SHAFT	ь	DIABA		OVE		DEDTU	ED		SIZE & V THICKN		14/a: abs	CLEARAI		î THRUST LD.(lbs.) Sgr. Corner Abutment	
NO.			n Ds	DIAMETER		ER WIDTH		DEPTH	FREE DIAMETER				Weight Per 1000 pcs.	Ex- panded over Shaft	Re- leased in Groove	Ring Safety Factor of 4	Groove Safety Factor of 2
	Ds DEC	Ds FRAC	mm	Dq	Tol.	w	Tol.	d	Df	Tol.	T	Tol.	lbs.	L1	L2	Pr	Pg
SH-354	3.543	-	90.0	3.357	10	.120		.093	3.277		.109		73.0	4.25	4.07	46183	23300
SH-362	3.625	3-5/8	92.1	3.435	1	.120		.095	3.352		.109		76.0	4.36	4.17	47299	24300
SH-368	3.688	3-11/16		3.493	1	.120		.097	3.410		.109		80.0	4.33	4.31	48010	25300
SH-375	3.750	3-3/4	95.2	3.552	$1 \pm .006$.120	+.005	.099	3.468	+.020	.109	±.003	83.0	4.52	4.33	48822	26200
SH-387	3.875	3-7/8	98.40	3.673	1.006*	.120	000	.101	3.584	030	.109		88.0	4.64	4.44	50446	27700
SH-393	3.938	3-15/16	100.0	3.734	1	.120		.102	3.642		.109		95.0	4.70	4.50	51359	28400
SH-400	4.000	4	101.6	3.792	1	.120		.104	3.700		.109		101.0	4.76	4.56	52171	29400
SH-412	4.125	4-1/8	104.8	3.915	1	.120		.105	3.800		.109		101.2	5.00	4.78	53200	29800
SH-425	4.250	4-1/4	108.0	4.065	1	.120		.092	3.989		.109		112.0	4.98	4.80	55419	27600
SH-437	4.375	4-3/8	111.1	4.190	1	.120		.092	4.106		.109		115.0	5.22	5.04	57043	28400
SH-450	4.500	4-1/2	114.3	4.310	1	.120		.095	4.223		.109		132.0	5.37	5.18	58667	30200
SH-475	4.750	4-3/4	120.6	4.550	1	.120		.100	4.458		.109		113.0	5.74	5.52	61915	33600
SH-500	5.000	5	127.0	4.790	1	.120		.105	4.692		.109		149.0	5.85	5.64	65163	37100
SH-525	5.250	5-1/4	133.3	5.030		.139		.110	4.927		.125		190.0	6.17	5.95	78460	40800
SH-550	5.500	5-1/2	139.7	5.265	$\pm .007$.139	+.006	.117	5.162	+.020	.125	±.004	202.5	6.63	6.39	82215	45500
SH-575	5.750	5-3/4	146.0	5.505	.006*	.139	000	.122	5.396	040	.125		220.0	6.93	6.69	85971	49600
SH-600	6.000	6	152.4	5.745	1	.139		.127	5.631		.125		210.0	7.21	6.95	89625	53800
SH-625	6.250	6-1/4	158.7	5.985		.174		.132	5.866		.156		282.0	7.48	7.22	116522	58300
SH-650	6.500	6-1/2	165.1	6.225]	.174		.137	6.100	+.020	.156		330.0	7.80	7.45	121191	62900
SH-675	6.750	6-3/4	171.4	6.465		.174		.142	6.335	050	.156		356.0	8.10	7.82	125860	67700
SH-700	7.000	7	177.8	6.705		.174		.147	6.570		.156		371.0	8.23	7.94	130529	72700
SH-725	7.250	7-1/4	184.2	6.942		.209		.154	6.775		.187		510.0	8.70	8.40	162096	78900
SH-750	7.500	7-1/2	190.5	7.180		.209		.160	7.009		.187		534.0	8.98	8.66	167678	84800
SH-775	7.750	7-3/4	196.9	7.420	±.008		+.008		7.243	+.050	.187	±.005	545.0	9.21	8.88	173261	90450
SH-800	8.000	8	203.2	7.660	.006*	.209	000	.170	7.478	130	.187		640.0	9.61	9.26	178843	96100
SH-825	8.250	8-1/4	209.6	7.900		.209		.175	7.712		.187		665.0	9.87	9.52	184426	102100
SH-850	8.500	8-1/2	215.9	8.140		.209		.180	7.947		.187		692.0	10.12	9.76	190008	108100
SH-875	8.750	8-3/4	222.3	8.380		.209		.185	8.181		.187		712.0	10.40	10.00	195591	114450
SH-900	9.000	9	228.6	8.620		.209		.190	8.415		.187		737.0	10.60	10.22	201173	120800
SH-925	9.250	9-1/4	234.9	8.860		.209		.195	8.650		.187		760.0	10.85	10.50	206756	128225
SH-950	9.500	9-1/2	241.3	9.100	1	.209		.200	8.885		.187		785.0	11.10	10.70	212338	134200
SH-975	9.750		247.6	9.338	1	.209		.206	9.120		.187		845.0	11.35	10.95	217921	142000
SH-1000	10.000	10	254.0	9.575		.209		.212	9.355		.187		910.0	11.60	11.20	223503	149800

Shaft Diameter &

Groove Dimensions

Note: Specifications listed within the catalog tables reflect Rotor Clip's standard commercial production dimensions. Published retaining ring standards including Military (MIL-DTL-21248D) / ASME / NAS / ANSI may require parts with alternative geometry. Please contact Rotor Clip Technical Sales Department to clarify conformance to specific requirements. (Tech@rotorclip.com or $+1\mbox{-}732\mbox{-}469\mbox{-}7333\mbox{.})$

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

RING TYPE	SIZE RANGE	SCALE	ROCKWELL HARDNESS
SH	25-81	30N	63-69.5
	87+	С	44-51



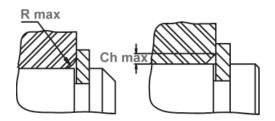
^{*} F.I.M. (FULL INDICATOR MOVEMENT)- MAXIMUM ALLOWABLE DEVIATION OF CONCENTRICITY BETWEEN GROOVE & SHAFT. Î BASED ON HOUSINGS/SHAFTS MADE OF COLD ROLLED STEEL. FOR AN EXPLANATION OF FORMULAS USED TO DERIVE THRUST LOAD AND OTHER PERFORMANCE DATA CONTACT THE ROTOR CLIP ENGINEERING DEPARTMENT.

^{***}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.

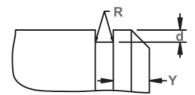
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Exploded Groove Profile & Edge Margin (Y) Maximum bottom radii (R), sharp corners for ring sizes -12 thru -23; .003 for ring sizes -25 thru -35; .005 for sizes -37 thru -100; .010 for ring sizes -102 thru -1000



Lug Design For Sizes SH-12 thru SH-23



Alternate Design Manufacturer's Option

RING		UG	MAXII		MINII			DLE	GAGING		WABLE	MAX.	EDGE	R.P.M.
NO.	HE	IGHT	SECT	10N	SECT	ION	DIAN	IETER	DIA.		INER	LOAD	MAR-	LIMITS
											OII &	w/ R max	GIN	Stan-
										CHAN	/IFERS	or		dard
												Ch max		Material
									Gd	-		(lbs.)		
	Н	Tol.	S max	Tol.	S min	Tol.	R	Tol.	Max.	R max	Ch max	P'r	Y	RPM
SH-354	.310	101.	.310	101.	.149	101.	.125	101.	3.809	.123	.074	10500	.279	5800
SH-362	.310	1 1	.310	1	.153		.125	1	3.898	.127	.076	10500	.285	5700
SH-368	.310	1 1	.310	1	.156		.125	+.015	3,966	.130	.078	10500	.291	5600
SH-375	.342	±.005	.342	±.008		±.008		002	4.037	.133	.080	10500	.297	5500
SH-387	.310		.310		.163		.125		4.169	.137	.082	10500	.303	5100
SH-393	.310		.310	1	.163		.125	1	4.230	.137	.082	10500	.306	5200
SH-400	.342		.342	1	.163		.125	1	4.288	.135	.081	10500	.312	5000
SH-412	.380		.318	1	.165		.125	1	4.410	.135	.081	10500	.315	4900
SH-425	.342		.342		.176		.125	1	4.558	.146	.088	10500	.276	4800
SH-437	.342	1 1	.342	1	.176		.125	1	4.683	.146	.088	10500	.276	4700
SH-450	.405	1 1	.405	1	.185		.125	1	4.860	.102	.061	10500	.285	4500
SH-475	.405	1 1	.405	1	.136		.125	1	4.996	.115	.069	10500	.300	4200
SH-500	.405	±.008		±.010		±.010	.156		5.346	.165	.099	10500	.315	4000
SH-525	.435]	.435		.211		.156]	5.605	.169	.101	13500	.330	3900
SH-550	.497	1 1	.435	1	.209		.156	1	5.867	.175	.105	13500	.351	3700
SH-575	.518]	.435]	.220		.156]	6.134	.184	.110	13500	.366	3500
SH-600	.540		.435		.211		.156]	6.302	.143	.086	13500	.381	3400
SH-625	.561		.485		.176		.156]	6.568	.148	.089	21000	.396	3100
SH-650	.586]	.485]	.236		.156]	6.905	.191	.114	21000	.411	3000
SH-675	.608]	.515]	.246		.187	+.020	7.172	.200	.120	21000	.426	3000
SH-700	.530		.515		.256		.187	005	7.439	.208	.125	21000	.441	2900
SH-725	.660		.545		.267		.187		7.700	.214	.128	30000	.460	2800
SH-750	.676]	.545]	.277		.187]	7.963	.220	.132	30000	.480	2700
SH-775	.660	±.012	.560	±.015	.285	$\pm .015$.187]	8.228	.227	.136	30000	.495	2600
SH-800	.735		.560		.294		.187		8.493	.235	.141	30000	.510	2500
SH-825	.735		.580		.304		.187		8.758	.242	.146	30000	.525	2400
SH-850	.735		.580		.314		.187		9.023	.250	.150	30000	.540	2300
SH-875	.735		.591		.322		.187		9.280	.258	.155	30000	.555	2200
SH-900	.735		.609		.333		.187		9.557	.267	.160	30000	.570	2200
SH-925	.735		.625		.341		.187		9.830	.274	.164	30000	.585	2100
SH-950	.735		.642		.350		.187		10.086	.281	.168	30000	.600	2100
SH-975	.735		.658		.358		.187		10.340	.287	.172	30000	.618	2000
SH-1000	.735		.675		.367		.187		10.610	.294	.176	30000	.636	2000

LARGER SIZES MAY BE AVAILABLE UPON REQUEST.

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

			(0112 1000 1000)
RING TYPE	SIZE RANGE	SCALE	ROCKWELL HARDNESS
SH	12-23	15N	84-86
	25-46	30N	69.5-73
	50-81	30N	66-71
	84-102	С	47-53
	106-343	С	47-52
	350-700	С	44-51
	725-1000	С	40-47
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HARDNESS RANGES: BERYLLIUM COPPER RINGS

TIAITDIVE OUT TIAI	VOLO. DETTILLE	JIVI OOLI ELI IIIIV	do
RING TYPE	SIZE RANGE	SCALE	ROCKWELL HARDNESS
SH	12-23	15N	77-82*
	25-102	30N	56.5-62
	106+	С	37-43

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

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