

AXIALLY INSTALLED

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EXTERNAL – BASIC

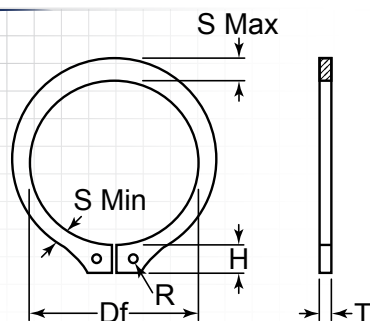


DESCRIPTION

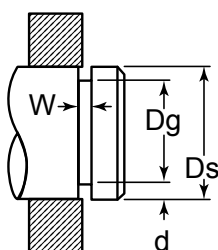
Once installed in the groove of a shaft, the portion of the ring protruding from the groove (also called a shoulder) holds an assembly in place.

HOW TO IDENTIFY

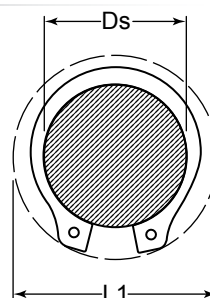
1. Verify external design and appearance.
2. Measure the shaft diameter (Ds).
3. Measure the maximum ring cross section (S Max).
4. Measure the minimum ring cross section (S Min).
5. Measure the ring thickness (T).
6. Find the part in the chart.



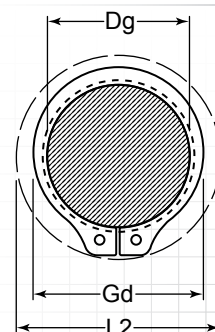
Ring Dimensions



Groove Dimensions



Clearance Diameter Expanded Over Shaft



Clearance Diameter & Gauging Diameter Released in Groove.

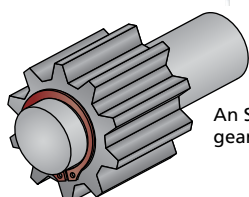
Item #	Shaft Diameter	Groove Size					Ring Size & Weight					Clearance Diameter	
		Diameter		Width		Depth	Free Diameter		Thickness ²		Weight Per 1,000 pcs.	Expanded Over Shaft	Released in Groove
		Ds	Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	Lbs.	L1
SH-012***	.125" (1/8)	.117"	±.0015" .0015"***	.012"	+0.002/-0.000"	.004"	.112"	+0.002/-0.004"	.010"	±.001"	.018	.222"	.214"
SH-015***	.156" (5/32)	.146"		.012"	+0.002/-0.000"	.005"	.142"	+0.002/-0.004"	.010"	±.001"	.037	.270"	.260"
SH-018***	.188" (3/16)	.175"		.018"	+0.002/-0.000"	.006"	.168"	+0.002/-0.004"	.015"	±.002"	.059	.298"	.286"
SH-019***	.197"	.185"		.018"	+0.002/-0.000"	.006"	.179"	+0.002/-0.004"	.015"	±.002"	.063	.319"	.307"
SH-021***	.219" (7/32)	.205"		.018"	+0.002/-0.000"	.007"	.196"	+0.002/-0.004"	.015"	±.002"	.074	.338"	.324"
SH-023***	.236" (15/64)	.222"	±.002" .002"***	.018"	+0.002/-0.000"	.007"	.215"	+0.002/-0.004"	.015"	±.002"	.086	.355"	.341"
SH-025	.250" (1/4)	.230"		.029"	+0.003/-0.000"	.010"	.225"	+0.002/-0.004"	.025"	±.002"	.210	.450"	.430"
SH-027	.276"	.255"		.029"	+0.003/-0.000"	.010"	.250"	+0.002/-0.005"	.025"	±.002"	.230	.480"	.460"
SH-028	.281" (9/32)	.261"		.029"	+0.003/-0.000"	.010"	.256"	+0.002/-0.005"	.025"	±.002"	.240	.490"	.470"
SH-031	.312" (5/16)	.290"		.029"	+0.003/-0.000"	.011"	.281"	+0.002/-0.005"	.025"	±.002"	.270	.540"	.520"
SH-034	.344" (11/32)	.321"		.029"	+0.003/-0.000"	.011"	.309"	+0.002/-0.005"	.025"	±.002"	.310	.570"	.550"
SH-035	.354"	.330"		.029"	+0.003/-0.000"	.012"	.320"	+0.002/-0.005"	.025"	±.002"	.350	.590"	.570"
SH-037	.375" (3/8)	.352"		.029"	+0.003/-0.000"	.012"	.338"	+0.002/-0.005"	.025"	±.002"	.390	.610"	.590"
SH-039	.394"	.369"		.029"	+0.003/-0.000"	.012"	.354"	+0.002/-0.005"	.025"	±.002"	.420	.620"	.600"
SH-040	.406" (13/32)	.382"		.029"	+0.003/-0.000"	.012"	.366"	+0.002/-0.005"	.025"	±.002"	.430	.630"	.610"
SH-043	.438" (7/16)	.412"		.029"	+0.003/-0.000"	.013"	.395"	+0.002/-0.005"	.025"	±.002"	.500	.660"	.640"

TO ORDER DIFFERENT MATERIAL/FINISHES, APPEND SUFFIX WITH YOUR CHOICE:

"NONE" • -BC • -SS • -ZD • -Z3

Additional attribute data on adjacent page. ▶

APPLICATIONS



An SH ring retains a gear in a transmission

STACKED OPTIONS AVAILABLE, SEE HUYETT.COM FOR MORE DETAILS

ALTERNATE DESIGN

(Manufacturer's Option)



FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.

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EXTERNAL – BASIC

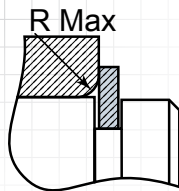
SUFFIX MATERIAL/FINISH

- ### = CARBON SPRING STEEL, PHOSPHATE
- ###-BC = BERYLLIUM COPPER, PLAIN
- ###-SS = PH 15-7 MO STAINLESS STEEL, PLAIN
- ###-ZD = CARBON SPRING STEEL, ZINC YELLOW
- ###-Z3 = CARBON SPRING STEEL, ZINC TRIVALENT

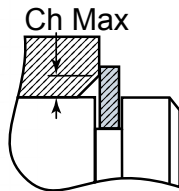
Material/finish combinations may not be available in all sizes.
More finishes available, see page 22 for a complete listing.



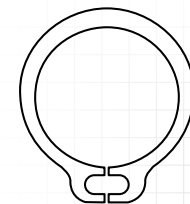
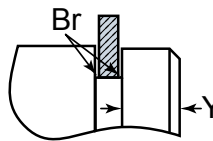
ALTERNATE DESIGN



Maximum Corner
Radius (R Max) & Chamfer (Ch Max)
for Retained Part



Maximum Bottom Radii (Br),
sharp corners for ring sizes SH-012 – SH-023;
.003 for ring sizes SH-025 – SH-035;
.005 for ring sizes SH-037 – SH-100;
.010 for ring sizes SH-102 – SH-1000



Lug Design for Sizes
SH-012 – SH-023

Item #	Thrust Load ¹		Lug Height		Maximum Section		Minimum Section		Hole Diameter		Gauging Dia.	Allowable Corner Radii & Chamfers		Max. Load w/R Max. or Ch Max.	Edge Margin	RPM Limits Standard Material
	Sq. Corner Abutment															
		Ring Safety Factor of 4	Groove Safety Factor of 2	H	Tol.	S Max.	Tol.	S Min.	Tol.	R	Tol.	Gd Min.	R Max.	Ch Max.	P'r lbs.	Y
SH-012***	112	35	.046"	±.002"	.018"	±.0015"	.011"	±.0015"	.026"	+.010/ -.002"	.148"	.010"	.006"	45	.012"	80,000
SH-015***	132	55	.054"	±.002"	.026"	±.0015"	.016"	±.0015"	.026"		.189"	.015"	.009"	45	.015"	80,000
SH-018***	244	80	.050"	±.002"	.025"	±.002"	.016"	±.002"	.025"		.218"	.014"	.0085"	105	.018"	80,000
SH-019***	254	85	.056"	±.002"	.026"	±.002"	.016"	±.002"	.026"		.229"	.0145"	.009"	105	.018"	80,000
SH-021***	284	110	.056"	±.002"	.028"	±.002"	.017"	±.002"	.026"		.252"	.015"	.009"	105	.021"	80,000
SH-023***	315	120	.056"	±.002"	.030"	±.002"	.019"	±.002"	.026"		.272"	.0165"	.01"	105	.021"	80,000
SH-025	599	175	.080"	±.003"	.035"	±.003"	.025"	±.003"	.041"		.29"	.018"	.011"	470	.030"	80,000
SH-027	660	195	.081"	±.003"	.035"	±.003"	.024"	±.003"	.041"		.315"	.0175"	.0105"	470	.031"	76,000
SH-028	670	200	.080"	±.003"	.038"	±.003"	.025"	±.003"	.041"		.326"	.020"	.012"	470	.030"	74,000
SH-031	751	240	.087"	±.003"	.040"	±.003"	.026"	±.003"	.041"		.357"	.020"	.012"	470	.033"	70,000
SH-034	812	265	.087"	±.003"	.042"	±.003"	.0265"	±.003"	.041"		.39"	.021"	.0125"	470	.033"	64,000
SH-035	832	300	.087"	±.003"	.046"	±.003"	.029"	±.003"	.041"		.405"	.023"	.014"	470	.036"	62,000
SH-037	883	320	.088"	±.003"	.05"	±.003"	.0305"	±.003"	.041"		.433"	.026"	.0155"	470	.036"	60,000
SH-039	954	335	.087"	±.003"	.052"	±.003"	.031"	±.003"	.041"		.452"	.027"	.016"	470	.037"	56,500
SH-040	964	350	.087"	±.003"	.054"	±.003"	.033"	±.003"	.041"		.468"	.0285"	.017"	470	.036"	55,000
SH-043	1,035	400	.088"	±.003"	.055"	±.003"	.033"	±.003"	.041"	.501"	.029"	.0175"	470	.039"	50,000	

◀ Additional attribute data on adjacent page.

For hardness specifications, see page 81.

** F.I.M. (Full Indicator Movement) – Maximum allowable deviation of runout between groove and shaft.

*** Sizes SH-012 – SH-023 standard material – carbon steel; optional material – beryllium copper.

¹ Based on housings/shafts made of cold rolled steel. For more information on thrust load and safety factor see pages 14 & 15.

² 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.



Visit huyett.com to download **Material, Compliance, and RoHS/REACH Certifications*** in your Account Order History.

* Some exclusions apply

FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.

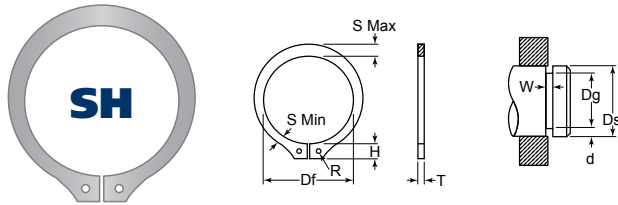
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EXTERNAL – BASIC



HOW TO IDENTIFY

1. Verify external design and appearance.
2. Measure the shaft diameter (Ds).
3. Measure the maximum ring cross section (S Max).
4. Measure the minimum ring cross section (S Min).
5. Measure the ring thickness (T).
6. Find the part in the chart.

Item #	Shaft Diameter	Groove Size					Ring Size & Weight					Clearance Diameter	
		Diameter		Width		Depth	Free Diameter		Thickness ²		Weight Per 1,000 pcs.	Expanded Over Shaft	Released in Groove
		Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	lbs.	L1	L2
SH-046SP1	.461"	.435"	±.002"	.029"	+.003/-0.000"	.013"	.420"	+.002/-0.005"	.025"	±.002"	.51	.68"	.66"
SH-046	.469" (15/32)	.443"	.002"***	.029"	+.003/-0.000"	.013"	.428"	+.002/-0.005"	.025"	±.002"	.54	.68"	.66"
SH-050	.500" (1/2)	.468"	±.002" .004"***	.039"	+.003/-0.000"	.016"	.461"	+.002/-0.005"	.035"	±.002"	.91	.77"	.74"
SH-055	.551"	.519"		.039"	+.003/-0.000"	.016"	.509"	+.005/-0.010"	.035"	±.002"	.90	.81"	.78"
SH-056	.562" (9/16)	.530"		.039"	+.003/-0.000"	.016"	.521"	+.005/-0.010"	.035"	±.002"	1.1	.82"	.79"
SH-059	.594" (19/32)	.559"	±.003" .004"***	.039"	+.003/-0.000"	.017"	.550"	+.005/-0.010"	.035"	±.002"	1.2	.86"	.83"
SH-062	.625" (5/8)	.588"		.039"	+.003/-0.000"	.018"	.579"	+.005/-0.010"	.035"	±.002"	1.3	.90"	.87"
SH-066	.669"	.629"		.039"	+.003/-0.000"	.020"	.621"	+.005/-0.010"	.035"	±.002"	1.4	.93"	.89"
	.672" (43/64)	.631"	±.003" .004"***	.039"	+.003/-0.000"	.020"	.621"	+.005/-0.010"	.035"	±.002"	1.4	.93"	.89"
SH-068	.688" (11/16)	.646"		.046"	+.003/-0.000"	.021"	.635"	+.005/-0.010"	.042"	±.002"	1.8	1.01"	.97"
SH-075	.750" (3/4)	.704"		.046"	+.003/-0.000"	.023"	.693"	+.005/-0.010"	.042"	±.002"	2.1	1.09"	1.05"
SH-078	.781" (25/32)	.733"	±.003" .004"***	.046"	+.003/-0.000"	.024"	.722"	+.005/-0.010"	.042"	±.002"	2.2	1.12"	1.08"
SH-081	.812" (13/16)	.762"		.046"	+.003/-0.000"	.025"	.751"	+.005/-0.010"	.042"	±.002"	2.5	1.15"	1.10"
SH-084	.844"	.791"		.046"	+.003/-0.000"	.026"	.780"	+.005/-0.010"	.042"	±.002"	2.7	1.18"	1.13"
SH-087	.875" (7/8)	.821"	±.004" .005"***	.046"	+.003/-0.000"	.027"	.810"	+.005/-0.010"	.042"	±.002"	2.8	1.21"	1.16"
SH-093	.938" (15/16)	.882"		.046"	+.003/-0.000"	.028"	.867"	+.005/-0.010"	.042"	±.002"	3.1	1.34"	1.29"
SH-098	.984" (63/64)	.926"		.046"	+.003/-0.000"	.029"	.910"	+.005/-0.010"	.042"	±.002"	3.5	1.39"	1.34"
SH-100	1.000" (1)	.940"	±.004" .005"***	.046"	+.003/-0.000"	.030"	.925"	+.005/-0.010"	.042"	±.002"	3.6	1.41"	1.35"
SH-102	1.023"	.961"		.046"	+.003/-0.000"	.031"	.946"	+.005/-0.010"	.042"	±.002"	3.9	1.43"	1.37"
SH-106	1.062" (1-1/16)	.998"		.056"	+.004/-0.000"	.032"	.982"	+.010/-0.015"	.050"	±.002"	4.8	1.50"	1.44"
SH-112	1.125" (1-1/8)	1.059"	±.004" .005"***	.056"	+.004/-0.000"	.033"	1.041"	+.010/-0.015"	.050"	±.002"	5.1	1.55"	1.49"
SH-118	1.188" (1-3/16)	1.118"		.056"	+.004/-0.000"	.035"	1.098"	+.010/-0.015"	.050"	±.002"	5.6	1.61"	1.54"
SH-125	1.250" (1-1/4)	1.176"		.056"	+.004/-0.000"	.037"	1.156"	+.010/-0.015"	.050"	±.002"	5.9	1.69"	1.62"
SH-131	1.312" (1-5/16)	1.232"	±.005" .005"***	.056"	+.004/-0.000"	.040"	1.214"	+.010/-0.015"	.050"	±.002"	6.8	1.75"	1.67"
SH-137	1.375" (1-3/8)	1.291"		.056"	+.004/-0.000"	.042"	1.272"	+.010/-0.015"	.050"	±.002"	7.2	1.80"	1.72"
SH-143	1.438" (1-7/16)	1.350"		.056"	+.004/-0.000"	.044"	1.333"	+.010/-0.015"	.050"	±.002"	8.1	1.87"	1.79"
SH-150	1.500" (1-1/2)	1.406"	±.005" .005"***	.056"	+.004/-0.000"	.047"	1.387"	+.010/-0.015"	.050"	±.002"	9.0	1.99"	1.90"
SH-156	1.562" (1-9/16)	1.468"		.068"	+.004/-0.000"	.047"	1.446"	+.013/-0.020"	.062"	±.003"	12.4	2.10"	2.01"
SH-162	1.625" (1-5/8)	1.529"		.068"	+.004/-0.000"	.048"	1.503"	+.013/-0.020"	.062"	±.003"	13.2	2.17"	2.08"
SH-168	1.688" (1-11/16)	1.589"	±.005" .005"***	.068"	+.004/-0.000"	.049"	1.560"	+.013/-0.020"	.062"	±.003"	14.8	2.24"	2.15"
SH-175	1.750" (1-3/4)	1.650"		.068"	+.004/-0.000"	.050"	1.618"	+.013/-0.020"	.062"	±.003"	15.3	2.31"	2.21"
SH-177	1.772"	1.669"		.068"	+.004/-0.000"	.051"	1.637"	+.013/-0.020"	.062"	±.003"	15.4	2.33"	2.23"
SH-181	1.812" (1-13/16)	1.708"	±.005" .005"***	.068"	+.004/-0.000"	.052"	1.675"	+.013/-0.020"	.062"	±.003"	15.6	2.38"	2.28"
SH-187	1.875" (1-7/8)	1.769"		.068"	+.004/-0.000"	.053"	1.735"	+.013/-0.020"	.062"	±.003"	17.3	2.44"	2.34"

TO ORDER DIFFERENT MATERIAL/FINISHES,
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"NONE" • -BC • -66 • -ZD • -Z3

Additional attribute data on adjacent page. ►

EXTERNAL – BASIC

SUFFIX MATERIAL/FINISH

- ### = CARBON SPRING STEEL, PHOSPHATE
- ###-BC = BERYLLIUM COPPER, PLAIN
- ###-SS = PH 15-7 MO STAINLESS STEEL, PLAIN
- ###-ZD = CARBON SPRING STEEL, ZINC YELLOW
- ###-Z3 = CARBON SPRING STEEL, ZINC TRIVALENT

Material/finish combinations may not be available in all sizes.
More finishes available, see page 22 for a complete listing.



		Item #	Thrust Load ¹		Lug Height		Maximum Section		Minimum Section		Hole Diameter		Gauging Dia.	Allowable Corner Radii & Chamfers			Max. Load w/R Max. or Ch Max.	Edge Margin	RPM Limits Standard Material
			Sq. Corner	Abutment															
			Ring Safety Factor of 4	Groove Safety Factor of 2	H	Tol.	S Max.	Tol.	S Min.	Tol.	R	Tol.	Gd Min.	R Max.	Ch Max.	P'r lbs.	Y	RPM	
		SH-046SP1	1,110	460	.092"	±.003"	.064"	±.003"	.038"	±.003"	.041"	+.010/ -.002"	.54"	.015"	.017"	470	.039"	42,000	
		SH-046	1,117	450	.088"	±.003"	.060"	±.003"	.035"	±.003"	.041"		.54"	.031"	.018"	470	.039"	42,000	
		SH-050	1,675	550	.108"	±.003"	.065"	±.004"	.040"	±.004"	.047"		.574"	.034"	.02"	910	.048"	40,000	
		SH-055	1,800	600	.108"	±.003"	.053"	±.004"	.036"	±.004"	.047"		.611"	.027"	.0165"	910	.048"	36,000	
		SH-056	1,878	650	.108"	±.003"	.072"	±.004"	.041"	±.004"	.047"		.644"	.038"	.023"	910	.048"	35,000	
		SH-059	1,979	750	.109"	±.003"	.076"	±.004"	.043"	±.004"	.047"		.68"	.0395"	.0235"	910	.052"	32,000	
		SH-062	2,091	800	.110"	±.003"	.080"	±.004"	.045"	±.004"	.047"		.715"	.0415"	.025"	910	.055"	30,000	
		SH-066	2,233	950	.110"	±.003"	.082"	±.004"	.043"	±.004"	.047"		.756"	.04"	.024"	910	.06"	29,000	
			2,233	950	.110"	±.003"	.082"	±.004"	.043"	±.004"	.047"		.758"	.04"	.024"	910	.06"	29,000	
		SH-068	3,451	1,000	.136"	±.004"	.084"	±.005"	.048"	±.005"	.052"		.779"	.042"	.025"	1,340	.063"	28,000	
		SH-075	3,756	1,200	.136"	±.004"	.092"	±.005"	.051"	±.005"	.052"		.85"	.046"	.0275"	1,340	.069"	26,500	
		SH-078	3,959	1,300	.136"	±.004"	.094"	±.005"	.052"	±.005"	.052"		.883"	.047"	.028"	1,340	.072"	25,500	
		SH-081	4,060	1,450	.136"	±.004"	.096"	±.005"	.054"	±.005"	.052"	.914"	.047"	.028"	1,340	.075"	24,500		
		SH-084	4,200	1,500	.137"	±.004"	.100"	±.005"	.057"	±.005"	.052"	.950"	.047"	.028"	1,340	.078"	24,000		
		SH-087	4,365	1,650	.137"	±.004"	.104"	±.005"	.057"	±.005"	.052"	.987"	.051"	.0305"	1,340	.081"	23,000		
		SH-093	4,720	1,850	.166"	±.004"	.110"	±.005"	.063"	±.005"	.078"	1.054"	.055"	.033"	1,340	.084"	21,500		
		SH-098	4,923	2,000	.167"	±.004"	.114"	±.005"	.064"	±.005"	.078"	1.106"	.056"	.0335"	1,340	.087"	20,500		
		SH-100	5,024	2,100	.167"	±.004"	.116"	±.005"	.065"	±.005"	.078"	1.122"	.057"	.034"	1,340	.09"	20,000		
		SH-102	5,126	2,250	.168"	±.004"	.118"	±.005"	.066"	±.005"	.078"	1.147"	.058"	.035"	1,340	.093"	19,500		
		SH-106	6,293	2,400	.181"	±.004"	.122"	±.006"	.069"	±.006"	.078"	1.192"	.06"	.036"	1,950	.096"	19,000		
		SH-112	6,699	2,600	.182"	±.004"	.128"	±.006"	.071"	±.006"	.078"	1.261"	.063"	.038"	1,950	.099"	18,800		
		SH-118	7,105	2,950	.182"	±.004"	.132"	±.006"	.072"	±.006"	.078"	1.325"	.064"	.0385"	1,950	.105"	18,000		
		SH-125	7,460	3,250	.183"	±.004"	.140"	±.006"	.076"	±.006"	.078"	1.396"	.068"	.041"	1,950	.111"	17,000		
		SH-131	7,866	3,700	.183"	±.004"	.146"	±.006"	.076"	±.006"	.078"	1.458"	.068"	.041"	1,950	.12"	16,500		
		SH-137	8,222	4,100	.184"	±.004"	.152"	±.006"	.082"	±.006"	.078"	+.015/ -.002"	1.529"	.072"	.043"	1,950	.126"	16,000	
		SH-143	8,628	4,500	.184"	±.004"	.160"	±.006"	.086"	±.006"	.078"		1.600"	.076"	.045"	1,950	.132"	15,000	
		SH-150	8,932	5,000	.214"	±.004"	.168"	±.006"	.091"	±.006"	.12"		1.668"	.079"	.047"	1,950	.141"	14,800	
		SH-156	11,571	5,200	.235"	±.004"	.172"	±.006"	.093"	±.006"	.125"		1.740"	.082"	.049"	3,000	.141"	14,000	
		SH-162	12,028	5,500	.235"	±.004"	.180"	±.006"	.097"	±.006"	.125"		1.812"	.087"	.052"	3,000	.144"	13,200	
		SH-168	12,535	5,850	.235"	±.004"	.184"	±.006"	.099"	±.006"	.125"		1.877"	.09"	.054"	3,000	.148"	13,000	
		SH-175	12,992	6,200	.237"	±.004"	.188"	±.006"	.101"	±.006"	.125"		1.945"	.091"	.054"	3,000	.150"	12,200	
		SH-177	13,144	6,400	.237"	±.004"	.190"	±.006"	.102"	±.006"	.125"		1.967"	.092"	.055"	3,000	.154"	11,700	
		SH-181	13,449	6,650	.262"	±.004"	.192"	±.006"	.102"	±.006"	.125"		2.010"	.092"	.055"	3,000	.156"	11,500	
		SH-187	13,906	7,000	.262"	±.004"	.196"	±.006"	.104"	±.006"	.125"		2.076"	.094"	.056"	3,000	.159"	11,000	

◀ Additional attribute data on adjacent page.

For hardness specifications, see page 81.

** F.I.M. (Full Indicator Movement) – Maximum allowable deviation of runout between groove and shaft.

¹ Based on housings/shafts made of cold rolled steel. For more information on thrust load and safety factor see pages 14 & 15.

² 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.

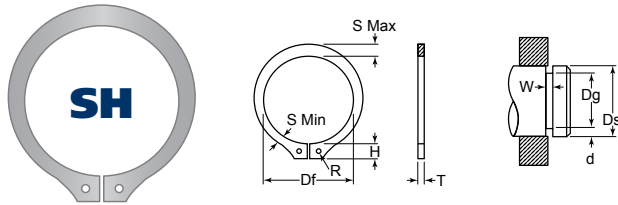
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HOW TO IDENTIFY

1. Verify external design and appearance.
2. Measure the shaft diameter (Ds).
3. Measure the maximum ring cross section (S Max).
4. Measure the minimum ring cross section (S Min).
5. Measure the ring thickness (T).
6. Find the part in the chart.

Item #	Shaft Diameter	Groove Size					Ring Size & Weight					Clearance Diameter	
		Diameter		Width		Depth	Free Diameter		Thickness ²		Weight Per 1,000 pcs.	Expanded Over Shaft	Released in Groove
		Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	lbs.	L1	L2
SH-196	1.969" (1-31/32)	1.857"	±.005"	.068"	+.004/- .000"	.056"	1.819"	+.013/- .020"	.062"	±.003"	18.0	2.57"	2.46"
SH-200	2.000" (2)	1.886"	.005"***	.068"	+.004/- .000"	.057"	1.850"	+.013/- .020"	.062"	±.003"	19.0	2.60"	2.49"
SH-206	2.062" (2-1/16)	1.946"		.086"	+.005/- .000"	.058"	1.906"	+.015/- .025"	.078"	±.003"	25.0	2.68"	2.57"
SH-212	2.125" (2-1/8)	2.003"		.086"	+.005/- .000"	.061"	1.964"	+.015/- .025"	.078"	±.003"	26.1	2.78"	2.66"
SH-215	2.156" (2-5/32)	2.032"		.086"	+.005/- .000"	.062"	1.993"	+.015/- .025"	.078"	±.003"	26.3	2.81"	2.69"
SH-225	2.250" (2-1/4)	2.120"		.086"	+.005/- .000"	.065"	2.081"	+.015/- .025"	.078"	±.003"	27.7	2.88"	2.76"
SH-231	2.312" (2-5/16)	2.178"		.086"	+.005/- .000"	.067"	2.139"	+.015/- .025"	.078"	±.003"	28.0	2.94"	2.81"
SH-237	2.375" (2-3/8)	2.239"		.086"	+.005/- .000"	.068"	2.197"	+.015/- .025"	.078"	±.003"	29.2	3.06"	2.93"
SH-243	2.438" (2-7/16)	2.299"		.086"	+.005/- .000"	.069"	2.255"	+.015/- .025"	.078"	±.003"	29.5	3.07"	2.94"
SH-250	2.500" (2-1/2)	2.360"		.086"	+.005/- .000"	.070"	2.313"	+.015/- .025"	.078"	±.003"	29.7	3.17"	3.03"
SH-255	2.559"	2.419"		.086"	+.005/- .000"	.070"	2.377"	+.020/- .030"	.078"	±.003"	33.9	3.18"	3.04"
SH-262	2.625" (2-5/8)	2.481"		.086"	+.005/- .000"	.072"	2.428"	+.020/- .030"	.078"	±.003"	35.0	3.30"	3.16"
SH-268	2.688" (2-11/16)	2.541"		.086"	+.005/- .000"	.073"	2.485"	+.020/- .030"	.078"	±.003"	36.0	3.37"	3.23"
SH-275	2.750" (2-3/4)	2.602"		.103"	+.005/- .000"	.074"	2.543"	+.020/- .030"	.093"	±.003"	42.5	3.48"	3.34"
SH-287	2.875" (2-7/8)	2.721"		.103"	+.005/- .000"	.077"	2.659"	+.020/- .030"	.093"	±.003"	48.5	3.60"	3.45"
SH-293	2.938" (2-15/16)	2.779"		.103"	+.005/- .000"	.079"	2.717"	+.020/- .030"	.093"	±.003"	50.0	3.66"	3.51"
SH-300	3.000" (3)	2.838"		.103"	+.005/- .000"	.081"	2.775"	+.020/- .030"	.093"	±.003"	52.0	3.60"	3.44"
SH-306	3.062" (3-1/16)	2.898"	±.006"***	.103"	+.005/- .000"	.082"	2.832"	+.020/- .030"	.093"	±.003"	47.5	3.74"	3.58"
SH-312	3.125" (3-1/8)	2.957"		.103"	+.005/- .000"	.084"	2.892"	+.020/- .030"	.093"	±.003"	58.0	3.85"	3.69"
SH-315	3.156" (3-5/32)	2.986"		.103"	+.005/- .000"	.085"	2.920"	+.020/- .030"	.093"	±.003"	59.0	3.88"	3.71"
SH-325	3.250" (3-1/4)	3.076"		.103"	+.005/- .000"	.087"	3.006"	+.020/- .030"	.093"	±.003"	62.0	3.93"	3.76"
SH-334	3.346" (3-11/32)	3.166"		.103"	+.005/- .000"	.090"	3.092"	+.020/- .030"	.093"	±.003"	64.0	4.02"	3.85"
SH-343	3.438" (3-7/16)	3.257"		.103"	+.005/- .000"	.090"	3.179"	+.020/- .030"	.093"	±.003"	66.0	4.14"	3.96"
SH-350	3.500" (3-1/2)	3.316"		.120"	+.005/- .000"	.092"	3.237"	+.020/- .030"	.109"	±.003"	72.0	4.16"	3.98"
SH-354	3.543"	3.357"		.120"	+.005/- .000"	.093"	3.277"	+.020/- .030"	.109"	±.003"	73.0	4.25"	4.07"
SH-362	3.625" (3-5/8)	3.435"		.120"	+.005/- .000"	.095"	3.352"	+.020/- .030"	.109"	±.003"	76.0	4.36"	4.17"
SH-368	3.688" (3-11/16)	3.493"		.120"	+.005/- .000"	.097"	3.410"	+.020/- .030"	.109"	±.003"	80.0	4.33"	4.31"
SH-375	3.750" (3-3/4)	3.552"		.120"	+.005/- .000"	.099"	3.468"	+.020/- .030"	.109"	±.003"	83.0	4.52"	4.33"
SH-387	3.875" (3-7/8)	3.673"		.120"	+.005/- .000"	.101"	3.584"	+.020/- .030"	.109"	±.003"	88.0	4.64"	4.44"
SH-393	3.938" (3-15/16)	3.734"		.120"	+.005/- .000"	.102"	3.642"	+.020/- .030"	.109"	±.003"	95.0	4.70"	4.50"
SH-400	4.000" (4)	3.792"		.120"	+.005/- .000"	.104"	3.700"	+.020/- .030"	.109"	±.003"	101.0	4.76"	4.56"
SH-412	4.125" (4-1/8)	3.915"		.120"	+.005/- .000"	.105"	3.800"	+.020/- .030"	.109"	±.003"	101.2	5.00"	4.78"
SH-425	4.250" (4-1/4)	4.065"		.120"	+.005/- .000"	.092"	3.989"	+.020/- .030"	.109"	±.003"	112.0	4.98"	4.80"
SH-437	4.375" (4-3/8)	4.190"		.120"	+.005/- .000"	.092"	4.106"	+.020/- .030"	.109"	±.003"	115.0	5.22"	5.04"

TO ORDER DIFFERENT MATERIAL/FINISHES,
APPEND SUFFIX WITH YOUR CHOICE:
"NONE" • -BC • -66 • -ZD • -Z3

Additional attribute data on adjacent page. ►



INSTALLATION TOOLS
AVAILABLE, SEE PAGE 248



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SUFFIX MATERIAL/FINISH

- ### = CARBON SPRING STEEL, PHOSPHATE
- ###-BC = BERYLLIUM COPPER, PLAIN
- ###-SS = PH 15-7 MO STAINLESS STEEL, PLAIN
- ###-ZD = CARBON SPRING STEEL, ZINC YELLOW
- ###-Z3 = CARBON SPRING STEEL, ZINC TRIVALENT

Material/finish combinations may not be available in all sizes.
More finishes available, see page 22 for a complete listing.



Item #	Thrust Load ¹ Sq. Corner Abutment		Lug Height		Maximum Section		Minimum Section		Hole Diameter		Gauging Dia.	Allowable Corner Radii & Chamfers			Max. Load w/R Max. or Ch Max.	Edge Margin	RPM Limits Standard Material
	Ring Safety Factor of 4	Groove Safety Factor of 2															
	Pr lbs.	Pg lbs.	H	Tol.	S Max.	Tol.	S Min.	Tol.	R	Tol.		Gd Min.	R Max.	Ch Max.			
SH-196	14,565	7,800	.262"	±.004"	.200"	±.006"	.106"	±.006"	.125"	+.015/ -.002"	2.170"	.094"	.056"	3,000	.168"	10,500	
SH-200	14,819	8,050	.262"	±.004"	.204"	±.006"	.108"	±.006"	.125"		2.205"	.096"	.057"	3,000	.171"	10,000	
SH-206	19,234	8,450	.267"	±.005"	.208"	±.007"	.111"	±.007"	.125"		2.275"	.098"	.059"	5,000	.174"	9,600	
SH-212	19,793	9,150	.280"	±.005"	.212"	±.007"	.113"	±.007"	.125"		2.337"	.098"	.059"	5,000	.183"	9,500	
SH-215	20,097	9,450	.280"	±.005"	.212"	±.007"	.113"	±.007"	.125"		2.366"	.097"	.058"	5,000	.186"	9,400	
SH-225	21,011	10,350	.280"	±.005"	.220"	±.007"	.116"	±.007"	.125"		2.466"	.100"	.060"	5,000	.195"	9,200	
SH-231	21,518	10,950	.280"	±.005"	.222"	±.007"	.118"	±.007"	.125"		2.528"	.100"	.060"	5,000	.201"	9,000	
SH-237	22,127	11,400	.292"	±.005"	.224"	±.007"	.119"	±.007"	.125"		2.591"	.100"	.060"	5,000	.204"	8,800	
SH-243	22,736	11,900	.268"	±.005"	.228"	±.007"	.120"	±.007"	.125"		2.657"	.102"	.061"	5,000	.207"	8,600	
SH-250	23,345	12,350	.292"	±.005"	.232"	±.007"	.122"	±.007"	.125"		2.724"	.104"	.062"	5,000	.210"	8,400	
SH-255	23,853	12,650	.292"	±.005"	.238"	±.007"	.125"	±.007"	.125"		2.792"	.108"	.065"	5,000	.210"	8,200	
SH-262	24,462	13,350	.292"	±.005"	.242"	±.007"	.127"	±.007"	.125"		2.860"	.1095"	.066"	5,000	.216"	8,000	
SH-268	25,071	13,850	.292"	±.005"	.292"	±.007"	.129"	±.007"	.125"		2.926"	.1115"	.067"	5,000	.219"	7,900	
SH-275	30,551	14,400	.324"	±.005"	.248"	±.007"	.131"	±.007"	.125"		2.992"	.112"	.067"	7,350	.222"	7,600	
SH-287	31,973	15,650	.324"	±.005"	.256"	±.007"	.133"	±.007"	.125"		3.122"	.115"	.069"	7,350	.231"	7,300	
SH-293	32,683	16,400	.324"	±.005"	.260"	±.007"	.136"	±.007"	.125"		3.187"	.116"	.070"	7,350	.237"	7,200	
SH-300	33,394	17,200	.264"	±.005"	.264"	±.007"	.138"	±.007"	.125"		3.252"	.117"	.070"	7,350	.243"	6,700	
SH-306	34,003	17,750	.300"	±.005"	.300"	±.008"	.131"	±.008"	.125"		3.294"	.107"	.064"	7,350	.246"	6,600	
SH-312	34,815	18,550	.324"	±.005"	.272"	±.008"	.141"	±.008"	.125"		3.383"	.120"	.072"	7,350	.252"	6,600	
SH-315	35,119	18,950	.324"	±.005"	.274"	±.008"	.143"	±.008"	.125"		3.415"	.1205"	.072"	7,350	.255"	6,500	
SH-325	36,134	20,000	.300"	±.005"	.300"	±.008"	.145"	±.008"	.125"		3.515"	.123"	.074"	7,350	.261"	6,400	
SH-334	37,251	21,000	.300"	±.005"	.300"	±.008"	.147"	±.008"	.125"		3.613"	.126"	.076"	7,350	.270"	6,000	
SH-343	38,266	21,900	.300"	±.005"	.300"	±.008"	.148"	±.008"	.125"		3.712"	.129"	.077"	7,350	.270"	5,900	
SH-350	45,574	22,800	.285"	±.005"	.285"	±.008"	.148"	±.008"	.125"		3.764"	.122"	.073"	10,500	.276"	5,900	
SH-354	46,183	23,300	.310"	±.005"	.310"	±.008"	.149"	±.008"	.125"		3.809"	.123"	.074"	10,500	.279"	5,800	
SH-362	47,299	24,300	.310"	±.005"	.310"	±.008"	.153"	±.008"	.125"		3.898"	.127"	.076"	10,500	.285"	5,700	
SH-368	48,010	25,300	.310"	±.005"	.310"	±.008"	.156"	±.008"	.125"		3.966"	.130"	.078"	10,500	.291"	5,600	
SH-375	48,822	26,200	.342"	±.005"	.342"	±.008"	.160"	±.008"	.125"		4.037"	.133"	.080"	10,500	.297"	5,500	
SH-387	50,446	27,700	.310"	±.005"	.310"	±.008"	.163"	±.008"	.125"		4.169"	.137"	.082"	10,500	.303"	5,100	
SH-393	51,359	28,400	.310"	±.005"	.310"	±.008"	.163"	±.008"	.125"		4.23"	.137"	.082"	10,500	.306"	5,200	
SH-400	52,171	29,400	.342"	±.005"	.342"	±.008"	.163"	±.008"	.125"		4.288"	.135"	.081"	10,500	.312"	5,000	
SH-412	53,200	29,800	.380"	±.005"	.318"	±.008"	.165"	±.008"	.125"		4.41"	.135"	.081"	10,500	.315"	4,900	
SH-425	55,419	27,600	.342"	±.008"	.342"	±.010"	.176"	±.010"	.125"		4.558"	.146"	.088"	10,500	.276"	4,800	
SH-437	57,043	28,400	.342"	±.008"	.342"	±.010"	.176"	±.010"	.125"	4.683"	.146"	.088"	10,500	.276"	4,700		

◀ Additional attribute data on adjacent page.

For hardness specifications, see page 81.

** F.I.M. (Full Indicator Movement) – Maximum allowable deviation of runout between groove and shaft.

¹ Based on housings/shafts made of cold rolled steel. For more information on thrust load and safety factor see pages 14 & 15.

² 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.

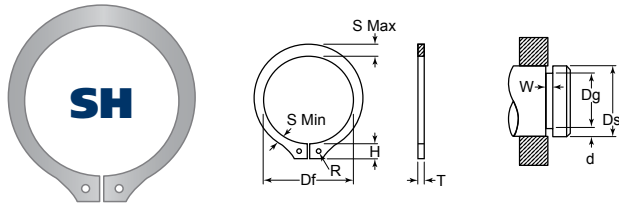
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HOW TO IDENTIFY

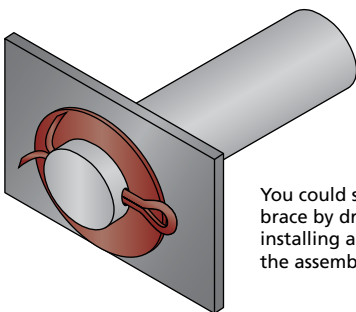
1. Verify external design and appearance.
2. Measure the shaft diameter (Ds).
3. Measure the maximum ring cross section (S Max).
4. Measure the minimum ring cross section (S Min).
5. Measure the ring thickness (T).
6. Find the part in the chart.

Item #	Shaft Diameter	Groove Size					Ring Size & Weight					Clearance Diameter	
		Diameter		Width		Depth	Free Diameter		Thickness ²		Weight Per 1,000 pcs.	Expanded Over Shaft	Released in Groove
	Ds	Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	lbs.	L1	L2
SH-450	4.500" (4-1/2)	4.310"	±.006" .006"***	.120"	+0.005/-0.000"	.095"	4.223"	+0.020/-0.030"	.109"	±.003"	132.0	5.37"	5.18"
SH-475	4.750" (4-3/4)	4.550"		.120"	+0.005/-0.000"	.100"	4.458"	+0.020/-0.030"	.109"	±.003"	113.0	5.74"	5.52"
SH-500	5.000" (5)	4.790"		.120"	+0.005/-0.000"	.105"	4.692"	+0.020/-0.030"	.109"	±.003"	149.0	5.85"	5.64"
SH-525	5.250" (5-1/4)	5.030"	±.007" .006"***	.139"	+0.006/-0.000"	.110"	4.927"	+0.020/-0.040"	.125"	±.004"	190.0	6.17"	5.95"
SH-550	5.500" (5-1/2)	5.265"		.139"	+0.006/-0.000"	.117"	5.162"	+0.020/-0.040"	.125"	±.004"	202.5	6.63"	6.39"
SH-575	5.750" (5-3/4)	5.505"		.139"	+0.006/-0.000"	.122"	5.396"	+0.020/-0.040"	.125"	±.004"	220.0	6.93"	6.69"
SH-600	6.000" (6)	5.745"		.139"	+0.006/-0.000"	.127"	5.631"	+0.020/-0.040"	.125"	±.004"	210.0	7.21"	6.95"
SH-625	6.250" (6-1/4)	5.985"		.174"	+0.008/-0.000"	.132"	5.866"	+0.020/-0.050"	.156"	±.005"	282.0	7.48"	7.22"
SH-650	6.500" (6-1/2)	6.225"		.174"	+0.008/-0.000"	.137"	6.100"	+0.020/-0.050"	.156"	±.005"	330.0	7.80"	7.45"
SH-675	6.750" (6-3/4)	6.465"		.174"	+0.008/-0.000"	.142"	6.335"	+0.020/-0.050"	.156"	±.005"	356.0	8.10"	7.82"
SH-700	7.000" (7)	6.705"		.174"	+0.008/-0.000"	.147"	6.570"	+0.050/-0.130"	.156"	±.005"	371.0	8.23"	7.94"
SH-725	7.250" (7-1/4)	6.942"		.209"	+0.008/-0.000"	.154"	6.775"	+0.050/-0.130"	.187"	±.005"	510.0	8.70"	8.40"
SH-750	7.500" (7-1/2)	7.180"		.209"	+0.008/-0.000"	.160"	7.009"	+0.050/-0.130"	.187"	±.005"	534.0	8.98"	8.66"
SH-775	7.750" (7-3/4)	7.420"		.209"	+0.008/-0.000"	.165"	7.243"	+0.050/-0.130"	.187"	±.005"	545.0	9.21"	8.88"
SH-800	8.000" (8)	7.660"	±.008" .006"***	.209"	+0.008/-0.000"	.170"	7.478"	+0.050/-0.130"	.187"	±.005"	640.0	9.61"	9.26"
SH-825	8.250" (8-1/4)	7.900"		.209"	+0.008/-0.000"	.175"	7.712"	+0.050/-0.130"	.187"	±.005"	665.0	9.87"	9.52"
SH-850	8.500" (8-1/2)	8.140"		.209"	+0.008/-0.000"	.180"	7.947"	+0.050/-0.130"	.187"	±.005"	692.0	10.12"	9.76"
SH-875	8.750" (8-3/4)	8.380"		.209"	+0.008/-0.000"	.185"	8.181"	+0.050/-0.130"	.187"	±.005"	712.0	10.40"	10.00"
SH-900	9.000" (9)	8.620"		.209"	+0.008/-0.000"	.190"	8.415"	+0.050/-0.130"	.187"	±.005"	737.0	10.60"	10.22"
SH-925	9.250" (9-1/4)	8.860"		.209"	+0.008/-0.000"	.195"	8.650"	+0.050/-0.130"	.187"	±.005"	760.0	10.85"	10.50"
SH-950	9.500" (9-1/2)	9.100"		.209"	+0.008/-0.000"	.200"	8.885"	+0.050/-0.130"	.187"	±.005"	785.0	11.10"	10.70"
SH-975	9.750" (9-3/4)	9.338"		.209"	+0.008/-0.000"	.206"	9.120"	+0.050/-0.130"	.187"	±.005"	845.0	11.35"	10.95"
SH-1000	1.000" (10)	9.575"		.209"	+0.008/-0.000"	.212"	9.355"	+0.050/-0.130"	.187"	±.005"	910.0	11.60"	11.20"

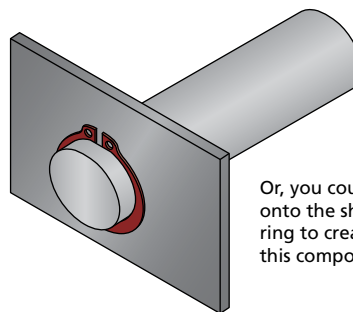
TO ORDER DIFFERENT MATERIAL/FINISHES,
APPEND SUFFIX WITH YOUR CHOICE:
"NONE" • -BC • -SS • -ZD • -Z3

Additional attribute data on adjacent page. ►

APPLICATIONS



You could secure this shaft to a brace by drilling a hole through it, installing a washer, and fastening the assembly with a cotter pin.



Or, you could machine a groove onto the shaft and install a retaining ring to create a "shoulder" to retain this component on this shaft.

EXTERNAL – BASIC

SUFFIX MATERIAL/FINISH

- ### = CARBON SPRING STEEL, PHOSPHATE
- ###-BC = BERYLLIUM COPPER, PLAIN
- ###-SS = PH 15-7 MO STAINLESS STEEL, PLAIN
- ###-ZD = CARBON SPRING STEEL, ZINC YELLOW
- ###-Z3 = CARBON SPRING STEEL, ZINC TRIVALENT

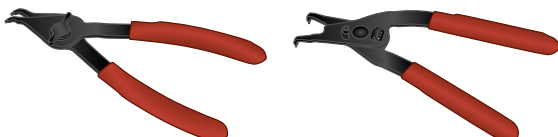
Material/finish combinations may not be available in all sizes.
More finishes available, see page 22 for a complete listing.



Item #	Thrust Load ¹ Sq. Corner Abutment		Lug Height		Maximum Section		Minimum Section		Hole Diameter		Gauging Dia.	Allowable Corner Radii & Chamfers			Max. Load w/R Max. or Ch Max.	Edge Margin	RPM Limits Standard Material
	Ring Safety Factor of 4	Groove Safety Factor of 2															
		Pr lbs.	Pg lbs.	H	Tol.	S Max.	Tol.	S Min.	Tol.	R	Tol.	Gd Min.	R Max.	Ch Max.	P'r lbs.	Y	RPM
SH-450	58,667	30,200	.405"	±.008"	.405"	±.010"	.185"	±.010"	.125"	+.015/ -.002"	4.860"	.102"	.061"	10,500	.285"	4,500	
SH-475	61,915	33,600	.405"	±.008"	.405"	±.010"	.136"	±.010"	.125"		4.996"	.115"	.069"	10,500	.300"	4,200	
SH-500	65,163	37,100	.405"	±.008"	.405"	±.010"	.194"	±.010"	.156"	+.020/ -.005"	5.346"	.165"	.099"	10,500	.315"	4,000	
SH-525	78,460	40,800	.435"	±.008"	.435"	±.010"	.211"	±.010"	.156"		5.605"	.169"	.101"	13,500	.330"	3,900	
SH-550	82,215	45,500	.497"	±.008"	.435"	±.010"	.209"	±.010"	.156"		5.867"	.175"	.105"	13,500	.351"	3,700	
SH-575	85,971	49,600	.518"	±.008"	.435"	±.010"	.220"	±.010"	.156"		6.134"	.184"	.110"	13,500	.366"	3,500	
SH-600	89,625	53,800	.540"	±.008"	.435"	±.010"	.211"	±.010"	.156"		6.302"	.143"	.086"	13,500	.381"	3,400	
SH-625	116,522	58,300	.561"	±.012"	.485"	±.015"	.176"	±.015"	.156"		6.568"	.148"	.089"	21,000	.396"	3,100	
SH-650	121,191	62,900	.586"	±.012"	.485"	±.015"	.236"	±.015"	.156"		6.905"	.191"	.114"	21,000	.411"	3,000	
SH-675	125,860	67,700	.608"	±.012"	.515"	±.015"	.246"	±.015"	.187"		7.172"	.200"	.120"	21,000	.426"	3,000	
SH-700	130,529	72,700	.530"	±.012"	.515"	±.015"	.256"	±.015"	.187"		7.439"	.208"	.125"	21,000	.441"	2,900	
SH-725	162,096	78,900	.660"	±.012"	.545"	±.015"	.267"	±.015"	.187"		7.700"	.214"	.128"	30,000	.460"	2,800	
SH-750	167,678	84,800	.676"	±.012"	.545"	±.015"	.277"	±.015"	.187"	7.963"	.220"	.132"	30,000	.480"	2,700		
SH-775	173,261	90,450	.660"	±.012"	.560"	±.015"	.285"	±.015"	.187"	8.228"	.227"	.136"	30,000	.495"	2,600		
SH-800	178,843	96,100	.735"	±.012"	.560"	±.015"	.294"	±.015"	.187"	8.493"	.235"	.141"	30,000	.510"	2,500		
SH-825	184,426	102,100	.735"	±.012"	.580"	±.015"	.304"	±.015"	.187"	8.758"	.242"	.146"	30,000	.525"	2,400		
SH-850	190,008	108,100	.735"	±.012"	.580"	±.015"	.314"	±.015"	.187"	9.023"	.250"	.150"	30,000	.540"	2,300		
SH-875	195,591	114,450	.735"	±.012"	.591"	±.015"	.322"	±.015"	.187"	9.280"	.258"	.155"	30,000	.555"	2,200		
SH-900	201,173	120,800	.735"	±.012"	.609"	±.015"	.333"	±.015"	.187"	9.557"	.267"	.160"	30,000	.570"	2,200		
SH-925	206,756	128,225	.735"	±.012"	.625"	±.015"	.341"	±.015"	.187"	9.830"	.274"	.164"	30,000	.585"	2,100		
SH-950	212,338	134,200	.735"	±.012"	.642"	±.015"	.350"	±.015"	.187"	1.086"	.281"	.168"	30,000	.600"	2,100		
SH-975	217,921	142,000	.735"	±.012"	.658"	±.015"	.358"	±.015"	.187"	1.340"	.287"	.172"	30,000	.618"	2,000		
SH-1000	223,503	149,800	.735"	±.012"	.675"	±.015"	.367"	±.015"	.187"	1.610"	.294"	.176"	30,000	.636"	2,000		

Additional attribute data on adjacent page.

- ** F.I.M. (Full Indicator Movement) – Maximum allowable deviation of runout between groove and shaft.
Based on housings/shafts made of cold rolled steel. For more information on thrust load and safety factor see pages 14 & 15.
- ¹ 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.
- ²



**INSTALLATION TOOLS
AVAILABLE, SEE PAGE 248**

HARDNESS RANGES: SH RINGS

Material	Size Range	Scale	Rockwell Hardness
(blank) Carbon Steel, (SAE 1060-1090)	12 – 23	15N	84 – 86
	25 – 46	30N	69.5 – 73
	50 – 81	30N	66 – 71
	84 – 102	C	47 – 53
	106 – 343	C	47 – 52
	350 – 700	C	44 – 51
-SS Stainless Steel, (PH 15-7 Mo)	725 – 1000	C	40 – 47
	25 – 81	30N	63 – 69.5
-BC Beryllium Copper	87+	C	44 – 51
	12 – 23	15N	77 – 82**
	25 – 102	30N	56.5 – 62
	106+	C	37 – 43

** Hardness cannot be checked with any degree of accuracy directly on these rings.