SELF-LOCKIN

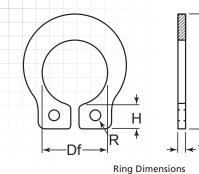
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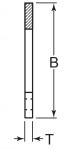
EXTERNAL – FRICTION SHAFT RING

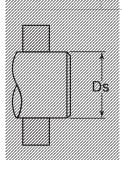
DESCRIPTION

The SHF ring resembles a basic SH ring, except that it is designed to function on a shaft without a groove. The design of the ring causes it to exert significant gripping power uniformly on the shaft, except where the gap occurs.

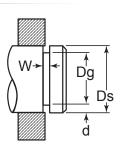


SHF





Without Groove



1. Verify external design and appearance.

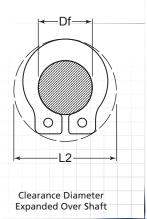
2. Measure the shaft diameter (Ds).

3. Measure the ring thickness (T).

4. Find the part in the chart.

HOW TO IDENTIFY

Optional Use in Groove SHF-023 – SHF-075



ltem #	Shaft Diameter			Groove Size					Ring Size & Weight					Clearance
				Diameter		Width		Depth	Free Diameter		Thickness ²		Weight Per 1,000 pcs.	Released over shaft
)s	Ds	Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	lbs.	L2
SHF-006	from .058"	to .060"	_						.055"	+.002/003"	.015"	±.002"	.030	.21"
SHF-007	.078"	.080"	0.078" (5/64)	-					.074"	+.002/003"	.025"	±.002"	.08	.24"
SHF-009	.092"	.096"	0.093" (3/32)	_					.089"	+.002/003"	.025"	±.002"	.10	.26"
5HF-012	.123"	.127"	0.125" (1/8)		Not reco				.120"	+.002/003"	.025"	±.002"	.24	.33"
5HF-015	.154"	.158"	0.156" (5/32)	-	for use w	ith gro	oves		.150"	+.002/004"	.025"	±.002"	.30	.36"
5HF-018	.185"	.189"	0.187" (3/16)					.181"	+.002/004"	.035"	±.003"	.55	.44"	
5HF-019	.195"	.199"	-							+.003/003"	.032"	±.003"	.45	.43"
SHF-023	.234"	.238"	0.234" (15/64)	.228"	+.0005/0015"	.041"		.004"	.224"	+.003/003"	.035"	±.003"	.76	.48"
SHF-025	.248"	.252"	0.250" (1/4)	.240"	+.0005/0015"	.041"	+.003/ 000"	.005"	.238"	+.002/004"	.035"	±.003"	.74	.49"
SHF-031	.310"	.316"	0.312" (5/16)	.303"	+.0005/0015"	.048"	000	.005"	.298"	+.003/005"	.042"	±.003"	1.39	.68"
SHF-037	.373"	.379"	0.375" (<mark>3/8)</mark>	.361"	+.001/002"	.048"		.007"	.354"	+.003/005"	.042"	±.003"	1.72	.74"
5HF-043	.434"	.440"	0.437" (7/16)	.419"	+.001/002"	.056"	+.004/	.009"	.412"	+.003/005"	.050"	±.003"	2.61	.81"
SHF-050	.497"	.503"	0.500" (1/2)	.478"	+.001/002"	.056"		.011"	.470"	+.004/006"	.050"	±.003"	2.91	.90"
SHF-062	.622"	.628"	0.625" (5/8)	.599"	+.001/002"	.069"	000	.013"	.593"	+.004/006"	.062"	±.004"	5.70	1.06"
SHF-075	.745"	.755"	0.750" (<mark>3/4)</mark>	.718"	+.002/003"	.069"]	.016"	.706"	+.004/006"	.062"	±.004"	6.88	1.32"

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

Additional attribute data on adjacent page.







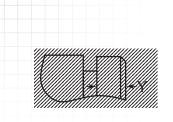


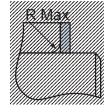


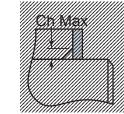
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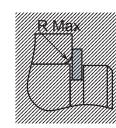
EXTERNAL – FRICTION SHAFT RING

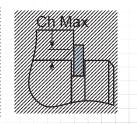
SUFFIX MATERIAL/FINISH ### = CARBON SPRING STEEL, PHOSPHATE ###-BC = BERYLLIUM COPPER, PLAIN ###-56 = PH 15-7 MO STAINLESS STEEL, PLAIN ###-ZD = CARBON SPRING STEEL, ZINC YELLOW ###-Z3 = CARBON SPRING STEEL, ZINC TRIVALENT Material/finish combinations may not be available in all sizes. More finishes available, see page 22 for a complete listing.











SHF

Edge Margin (Y)

Maximum Corner Radius (R Max) & Chamfer (Ch Max) for Retained Part (without Grooves)

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

ltem #		ust Load ¹ orner Abutment	Allowable Corner Radii & Chamfers		Max. Load	Lug Height		Hole Diameter		Ring Height	RPM Limits Standard Material	Tools
	Allowable Load Pr Ibs.	Groove Safety Factor of 2 Pg Ibs.			w/R Max or Ch Max							
e de la compañía de			R Max.	Ch Max.	P'r Ibs.	н	Tol.	R	Tol.	В		
SHF-006	5		.025"	.015"		.066"	±.005"	.035"	+.004/004"	.145"	>80,000	-
SHF-007	8		.036"	.022"	Not recommended for use with grooves	.071"	±.003"	.034"	+.004/004"	.184"	>80,000	-
SHF-009	8	Not recommended for use with grooves	.042"	.025"		.074"	±.003"	.034"	+.004/004"	.207"	>80,000	-
SHF-012	10		.054"	.032"		.078"	±.003"	.042"	+.010/002"	.268"	>80,000	PRC-038
SHF-015	12		.059"	.035"		.078"	±.003"	.042"	+.010/002"	.307"	>80,000	PRC-038
SHF-018	20		.063"	.038"		.097"	±.003"	.051"	+.010/002"	.364"	>80,000	PRC-038
SHF-019	30		.064"	.039"		.104"	±.008"	.051"	+.004/004"	.375"	>80,000	PRC-038
SHF-023	22	70	.070"	.042"	.030	.098"	±.003"	.051"	+.010/002"	.422"	>80,000	PRC-038
SHF-025	23	90	.072"	.043"	.030	.097"	±.003"	.051"	+.010/002"	.437"	77,000	PRC-038
SHF-031	25	110	.080"	.048"	.030	.141"	±.004"	.078"	+.015/002"	.553"	58,000	PRC-047
SHF-037	31	180	.086"	.051"	.030	.141"	±.004"	.078"	+.015/002"	.620"	51,000	PRC-047
SHF-043	41	290	.093"	.056"	.030	.151"	±.004"	.078"	+.015/002"	.701"	44,000	PRC-070
SHF-050	46	390	.100"	.060"	.040	.158"	±.004"	.078"	+.015/002"	.768"	40,000	PRC-070
SHF-062	61	570	.120"	.072"	.045	.180"	±.004"	.078"	+.015/002"	.948"	32,000	PRC-070
SHF-075	66	850	.125"	.075"	.050	.233"	±.004"	.120"	+.015/002"	1.115"	25,000	PRC-070

Additional attribute data on adjacent page.

Larger sizes may be available upon request.

- Values shown apply to rings installed on a shaft made of low carbon steel.
 For more information on thrust load and safety factor see pages 14 & 15.
 For plated rings add .002" to the listed maximum thickness. Maximum
- ring thickness (when used in groove) will be a minimum of .0002" less than the listed groove width (W) minimum.

	HARDNESS	RANGES	SHF	RINGS		
Materia	n/	Size Range Scale		Rockwell Hardness		
(blank)	Carbon Steel, (SAE 1060-1090)	6 – 9 12 – 23 25+	15N 30N C	83.5 – 86 65 – 69.5 46 – 51		
-SS	Stainless Steel, (PH 15-7 Mo)	9 12 – 23 25+	15N 30N C	82.5 - 86 63 - 69.5 44 - 51		
-BC	Beryllium Copper	9 12 – 23 25+	15N 30N C	77 – 82 54 – 62 34 – 43		