

DMR



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RETAINING RINGS



For over 40 years Daemar® Inc. has remained focused on partnering with our customers to deliver fastening solutions that meet their business challenges. Whether the application is a new design or a maintenance requirement, Daemar's global partnerships offer you one of the most complete sources of supply for Retaining Rings. To ensure that Daemar® consistently meets or exceeds customer requirements, Daemar® is ISO-9001 registered and most suppliers have either TS16949-2000, QS-9000 or ISO-9001:2000 quality registrations.

Daemar® has developed all of the capabilities required to support your lean manufacturing initiatives – providing JIT

delivery, vendor managed inventories and computer systems integration. Supported by the Daemar® regional warehousing network you experience fast, courteous service throughout the world. All of Daemar's locations are fully stocked and staffed with experienced and knowledgeable sales and service professionals.

We trust that you will find this catalogue a valuable resource for selecting the appropriate Retaining Rings for your fastening applications. For further selection assistance, pricing and product availability please contact the Daemar® location nearest you.



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ISO-9001: 2008 REGISTERED

To consistently meet and exceed our customers' expectations, Daemar® Inc. is ISO-9001: 2008 registered and most of our suppliers are QS-9000 and/or ISO-9000 quality registered.









DMRTM
ISO 9001:2000
Registered QMS






Rings Assembled Axially

	Designation: HO Type: Internal (housings & bores) Size Range: .250-10.0 inches (6.4-254.0mm)
	Designation: SH Type: External (basic shafts & pins) Size Range: .125-10.0 inches (3.2-254.0mm)
	Designation: HOI Type: Internal, Inverted (housings & bores) Size Range: .625-2.5 inches (15.9-63.5mm)
	Designation: SHI Type: External, Inverted (shafts & pins) Size Range: .500-2.5 inches (12.7-63.5mm)
	Designation: SHR Type: External, Heavy Duty (shafts & pins) Size Range: .394-2.0 inches (10.0-50.8mm)
	Designation: SHM Type: External, Extra Strength (shafts & pins) Size Range: .101-.375 inches (2.6-9.5mm)



Rings Used for End-Play Take Up

	Designation: BHO Type: Internal, Bowed (housings & bores) Size Range: .250-1.750 inches (6.4-44.4mm)
	Designation: BSH Type: External, Bowed (shafts & pins) Size Range: .188-1.750 inches (4.8-44.4mm)
	Designation: VHO Type: Internal, Beveled (housings & bores) Size Range: 1.000-10.0 inches (25.4-254.0mm)
	Designation: VSH Type: External, Beveled (shafts & pins) Size Range: 1.0-10.0 inches (25.4-254.0mm)
	Designation: BE Type: External, Bowed E (shafts & pins) Size Range: .110-.875 inches (2.8-22.2mm)
	Designation: EL Type: External, Bowed E (shafts & pins) Size Range: .125-.312 inches (3.2-7.9mm)







Rings Assembled Radially

	Designation: C Type: External (shafts & pins) Size Range: .125-2.0 inches (3.2-50.8mm)
	Designation: E Type: External (shafts & pins) Size Range: .040-1.375 inches (1.0-34.9mm)
	Designation: RE Type: External, Reinforced E (shafts & pins) Size Range: .094-10.0 inches (2.4-14.3mm)
	Designation: LC Type: External, Interlocking (shafts & pins) Size Range: .469-3.375 inches (11.9-85.7mm)
	Designation: PO, POL Type: External (shafts & pins) Size Range: PO-.156-2.000 inches (4.0-50.8mm) POL-.156-1.000 (4.0mm-25.4mm)









Self-Locking Rings

	Designation: TX, TY Type: External, Reinforced (shafts & pins) Size Range: .094-1.000 inches (2.4-25.4mm)
	Designation: TI Type: Internal, Circular (housings & bores) Size Range: .312-.938 inches (7.9-23.8mm)





Metric Retaining Rings

	Designation: DHO-DIN 472 Type: Internal (housings & bores) Size Range: 8.0mm-400mm
	Designation: DSH-DIN 471 Type: External (basic shafts & pins) Size Range: .30mm-400mm
	Designation: DC-Crescent Type: External (shafts & pins) Size Range: 3.0mm-55.0mm
	Designation: DE Type: External (shafts & pins) Size Range: 1.0mm-42.0mm
	Designation: DTX Type: External, Reinforced (shafts & pins) Size Range: 1.5mm-45.0mm
	Designation: DTI Type: Internal, Circular (housings & bores) Size Range: 8.0mm-50.0mm

Spiral Retaining Rings

	UR Type: Internal, Single Turn, Light Duty Size: .500-10.0 inches (12.7-254.0mm)
	RR Type: Internal, Medium Duty Size: .500-11.0 inches (12.7-279.4mm)
	RRT Type: Internal, Medium-Heavy Duty Size: .500-10.5 inches (12.7-266.7mm)
	RRN Type: Internal, Heavy Duty Size: .500-15.0 inches (12.7-381.0mm)
	US Type: External, Single Turn, Light Duty Size: .500-10.0 inches (12.7-254.0mm)
	RS Type: External, Medium Duty Size: .500-11.0 inches (12.7-279.4mm)
	RST Type: External, Medium-Heavy Duty Size: .469-10.0 inches (11.9-254.0mm)
	RSN Type: External, Heavy Duty Size: .469-15.0 inches (11.9-381.0mm)

Constant Section Retaining Rings

	IN Type: Internal, Notched Size: 1.750-10.0 inches (44.4-254.0mm)
	NAN Type: Internal Size: .375-10.0 inches (9.5-254.0mm)
	EN Type: External, Notched Size: 1.750-10.0 inches (44.4-254.0mm)
	XAN Type: External Size: .312-10.0 inches (7.9-254.0mm)

Material Hardness Range

Material	Scale	Rockwell Hardness
Carbon Steel (SAE 1060 - 1090)	C	40 - 52
Stainless Steel (PH 15-7MO)	C	44 - 51
Beryllium Copper	C	34-43

Standard material for retaining rings is carbon spring steel (SAE1060-1090). Rings can also be produced in the standard stainless steel (PH15-7 MO) with Type 420 as an option and in beryllium copper (Alloy #25) with copper alloy C72900 and phosphor bronze (Alloy #5218) as options.

CARBON STEEL (SAE1060-1090)

Carbon Spring Steel: This steel is known for its high strength, and reliability in retaining ring applications. Since carbon spring steel is subject to corrosion, Rotor Clip treats all such rings with a protective coating to ensure some corrosion resistance. For long-term corrosion protection, a zinc plating or non-metallic finish should be applied over the steel.

STAINLESS STEEL (PH15-7 MO)

Stainless Steel: PH 15-7 Mo is an extra strength corrosion-resistant steel, capable of preventing atmospheric oxidation at temperatures up to 900° F. It also offers the following advantages:

1. Minimal distortion due to unique heat-treating process.
2. A minimum of 225,000 psi for high ultimate tensile strength.
3. High creep strength. Note: We reserve the right to substitute PH 17-7 stainless steel material for PH 15-7 Mo on larger rings.

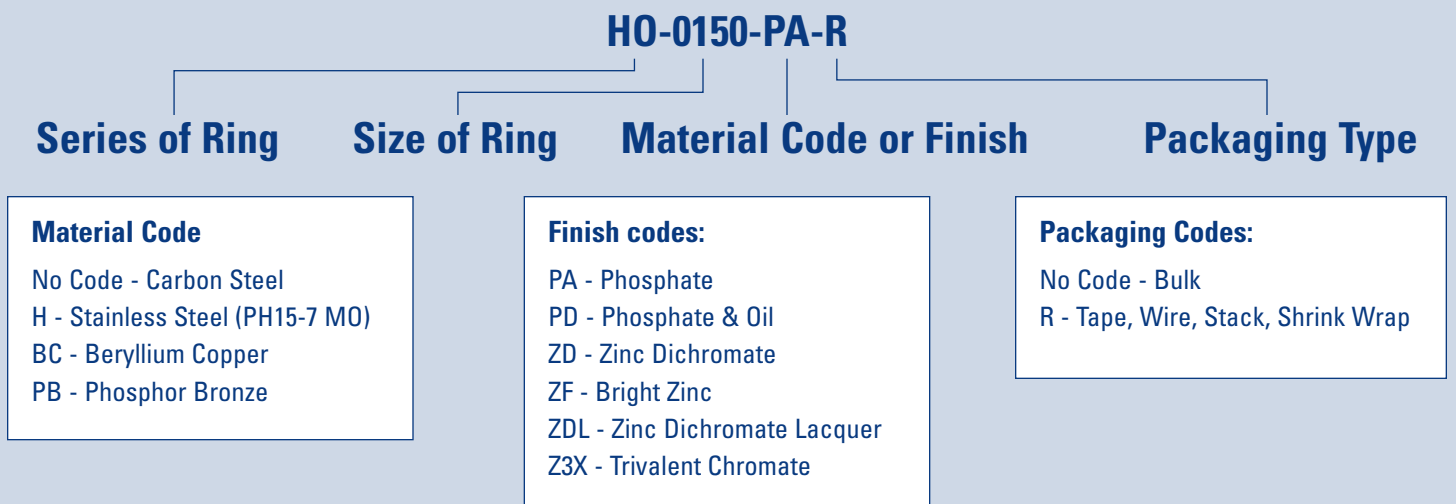
STAINLESS STEEL (TYPE 420)

Stainless Steel Type 420: A less expensive alternative to PH 15-7. Since general corrosion resistance for this material is less than PH-15-7, use of this material depends upon the application.

BERYLLIUM COPPER (ALLOY 25)

Beryllium Copper Alloy # 25: Applications that require conductivity are best served by this material. It is also characterized by excellent corrosion resistance and is particularly effective in sea air and seawater atmospheres.

DAEMAR PART NUMBERING SYSTEM



PHOSPHATE (PA)

Zinc based coating. Provides added shelf life plus a measure of protection in corrosive environments. This standard finish is recommended over unfinished plain steel since it offers an extended shelf-life protection against rusting.

PHOSPHATE & OIL (PD)

This finish provides 8-hour salt spray protection.

HEAVY PHOSPHATE & OIL (HPD)

This finish provides 72 salt spray hours and can be used in place of costly stainless steel material in some applications. (Contact Daemar Technical Sales for more information).

ZINC PLATING (ZD)

This coating features a yellow dichromate post plating finish. It affords the metal excellent salt spray protection (96 hours) and is particularly effective for applications exposed to seawater. Our SAE 1060-1090 steel retaining rings are zinc plated using a mechanical plating process, which effectively eliminates hydrogen embrittlement.

BRIGHT ZINC (ZF)

Most of the dichromate is leached out of this process, leaving a 'bright' silver finish on the parts. ZF offers some corrosion protection (48 hours), but is widely used when the aesthetics of the part are a factor.

ZINC DICHROMATE LACQUER(ZDL)

This improved finish offers corrosion protection of up to 240 hours of salt spray protection (HZDL offers 480 hours salt spray protection). It is a low cost substitution for costly non-corrosive materials such as stainless steel in some applications. Call for additional information.

TRIVALENT COATING (Z3X)

This coating meets global requirements for hexavalent-free coatings, and our supplier Rotor Clip has worked with the automotive industry to write new standards for its use with retaining rings. Z3X, trivalent with a sealer, affords 240 salt spray hours of protection and is RoHs & ELV compliant.

BULK

The parts are packed in varying size boxes or bags depending upon the size of the part. If a part is ordered bulk, there is no code listed after the finish. For example, HO-0025-PA would indicate that the part is to be shipped bulk.

SHRINK WRAPPED RINGS

The retaining rings are shrink wrapped instead of tape stacked - particularly useful on Phosphate & Oil (PD) or other oiled parts in which tape will not stick.

STACKED (R)

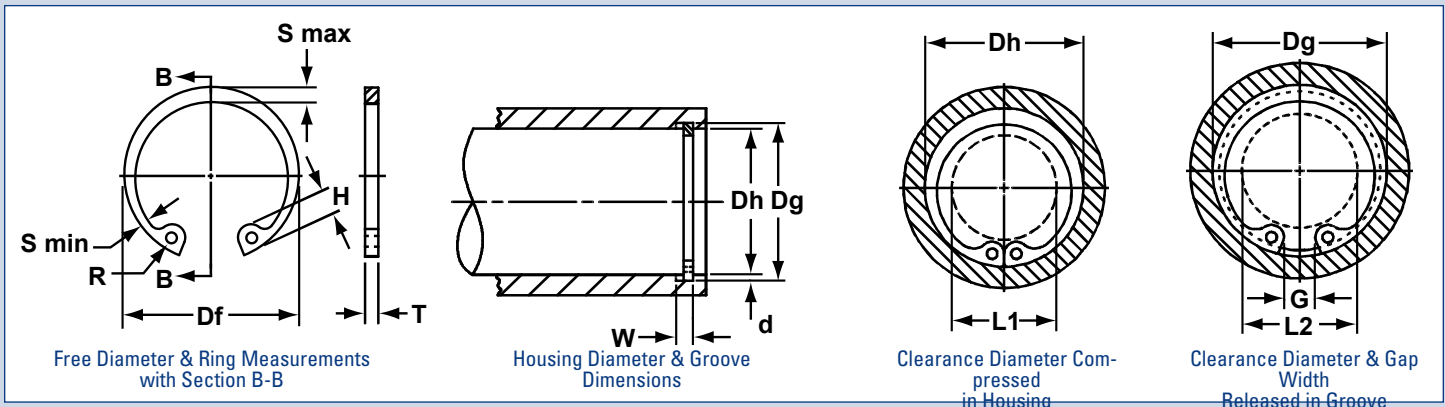
This means that the rings are stacked on top of one another, using automated equipment, and taped in that position. The resulting cartridges can be used to feed automated assembly equipment for easier, more efficient installation of the rings. Only the following retaining ring styles are offered stacked: E, DE, ME, MRE, JE, C, DC, MC, RE, HO, DHO, MHO, HOI, VHO, RG, and PO/POL.

RINGS ON WIRE (ROW)

1. Eliminates Mixed Parts
2. Eliminates Sorting
3. Reduces Handling
4. All Parts Are Burr Oriented
5. Beveled Parts Will Be Properly Oriented On The Stack
6. Yields A Flatter Part

THERE IS NO ADDITIONAL CHARGE FOR RINGS ON WIRE (ROW) PACKAGING

ONCE INSTALLED IN THE GROOVE OF A HOUSING/BORE, THE SHOULDER HOLDS AN ASSEMBLY IN PLACE.



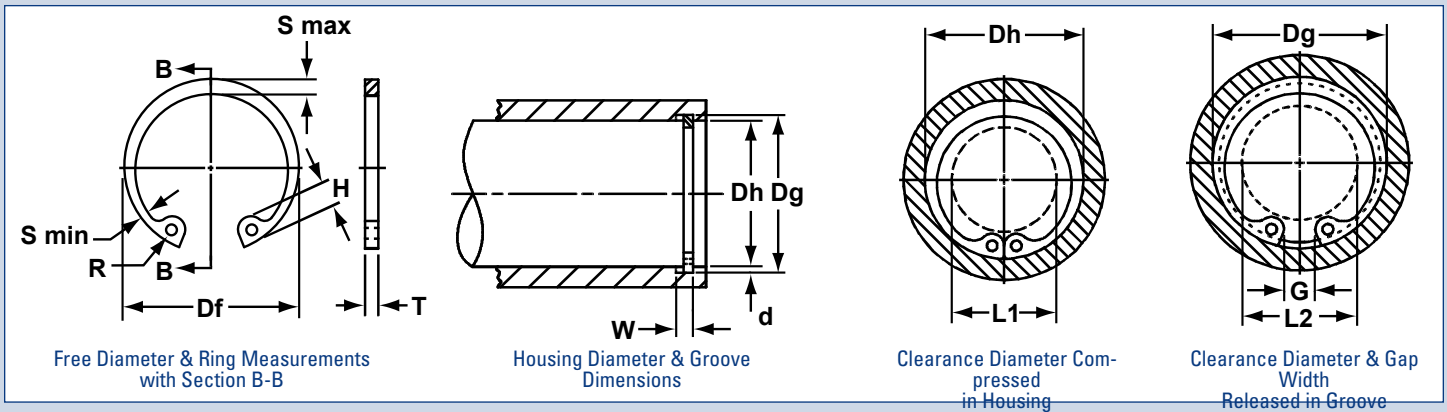
RING NO.	HOUSING DIAMETER			GROOVE SIZE					RING SIZE & WEIGHT				CLEARANCE DIA.		↑ THRUST LD. (lbs.) Sqr. Corner Abutment		
				DIAMETER		WIDTH		DEPTH	FREE DIAMETER		THICKNESS***						Weight Per 1000 Pcs.
	Dh DEC	Dh FRAC	Dh mm	Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	lbs.	L1	L2	Pr	
HO-0025	.250	1/4	6.4	.268	±.001	.020	+0.002	.009	.280		.015		.08	.115	.133	426	190
HO-0031	.312	5/16	7.9	.330	.0015*	.020	-0.000	.009	.346		.015		.11	.173	.191	538	240
HO-0037	.375	3/8	9.5	.397		.029		.011	.415		.025		.25	.204	.226	1066	350
HO-0043	.438	7/16	11.1	.461		.029		.012	.482		.025		.37	.23	.254	1238	440
HO-0045	.453	29/64	11.5	.477	±.002 .002*	.029		.012	.498		.025		.43	.25	.274	1299	460
HO-0050	.500	1/2	12.7	.530		.039		.015	.548	+0.010	.035	-0.005	.70	.26	.290	2010	510
HO-0051	.512	-	13.0	.542		.039		.015	.560		.035		.77	.27	.300	2060	520
HO-0056	.562	9/16	14.3	.596	±.002 .004*	.039		.017	.620		.035		.86	.275	.305	2253	710
HO-0062	.625	5/8	15.9	.665		.039		.020	.694		.035		1.0	.34	.380	2507	1050
HO-0068	.688	11/16	17.5	.732		.039	+0.003	.022	.763	-0.000	.035		1.2	.40	.440	2741	1280
HO-0075	.750	3/4	19.0	.796		.039		.023	.831		.035		1.3	.45	.490	3045	1460
HO-0077	.777	-	19.7	.825		.046		.024	.859		.042		1.7	.475	.520	4618	1580
HO-0081	.812	13/16	20.6	.862		.046		.025	.901		.042		1.9	.49	.540	4872	1710
HO-0086	.866	-	22.0	.920		.046		.027	.961		.042		2.0	.54	.590	5177	1980
HO-0087	.875	7/8	22.2	.931	±.003 .004*	.046		.028	.971		.042		2.1	.545	.600	5227	2080
HO-0090	.901	-	22.9	.959		.046		.029	1.000	+0.015	.042	-0.010	2.2	.565	.620	5430	2200
HO-0093	.938	15/16	23.8	1.000		.046		.031	1.041		.042		2.4	.61	.670	5684	2450
HO-0100	1.000	1	25.4	1.066		.046		.033	1.111		.042		2.7	.665	.730	6039	2800
HO-0102	1.023	-	26.0	1.091		.046		.034	1.136		.042		2.8	.69	.755	6141	3000
HO-0106	1.062	1-1/16	27.0	1.130		.056		.034	1.180		.050		3.7	.685	.750	7562	3050
HO-0112	1.125	1-1/8	28.6	1.197		.056		.036	1.249		.050		4.0	.745	.815	8019	3400
HO-0118	1.181	-	30.0	1.255		.056		.037	1.319		.050		4.3	.79	.860	8526	3700
HO-0118	1.188	1-3/16	30.2	1.262		.056		.037	1.319		.050		4.3	.80	.870	8526	3700
HO-0125	1.250	1-1/4	31.7	1.330		.056		.040	1.388		.050		4.8	.875	.955	8932	4250
HO-0125	1.259	-	32.0	1.34	±.004 .005*	.056		.040	1.388		.050		4.8	.885	.965	8932	4250
HO-0131	1.312	1-5/16	33.3	1.396		.056		.042	1.456	+0.025	.050	-0.020	5.0	.93	1.01	9440	4700
HO-0137	1.375	1-3/8	34.9	1.46		.056		.043	1.526		.050		5.1	.99	1.07	9846	5050
HO-0137	1.378	-	35.0	1.46		.056	+0.004	.043	1.526	-0.000	.050		5.1	.99	1.07	9846	5050
HO-0143	1.438	1-7/16	36.5	1.53		.056		.045	1.596		.050		5.8	1.06	1.15	10353	5500
HO-0145	1.456	-	37.0	1.55		.056		.046	1.616		.050		6.4	1.08	1.17	10455	5700
HO-0150	1.500	1-1/2	38.1	1.594		.056		.047	1.660		.050		6.5	1.12	1.21	10708	6000
HO-0156	1.562	1-9/16	39.7	1.66		.068		.048	1.734		.062		8.9	1.14	1.23	13906	6350
HO-0156	1.575	-	40.0	1.671	±.005 .005*	.068		.048	1.734	+0.035	.062	-0.025	8.9	1.15	1.24	13906	6350
HO-0162	1.625	1-5/8	41.3	1.725		.068		.050	1.804		.062		10.0	1.11	1.21	14413	6900
HO-0165	1.653	-	42.0	1.76		.068		.051	1.835		.062		10.4	1.17	1.27	14718	7200
HO-0168	1.688	1-11/16	42.9	1.792		.068		.052	1.874		.062		10.8	1.19	1.29	15022	7450

* F.I.M. (Full indicator movement)- maximum allowable deviation of concentricity between groove & housing.

† Based on housings/shafts made of cold rolled steel. For an explanation of formulas used to derive thrust load and other performance data, contact a daemar technical sales representative.

***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.

ONCE INSTALLED IN THE GROOVE OF A HOUSING/BORE, THE SHOULDER HOLDS AN ASSEMBLY IN PLACE.



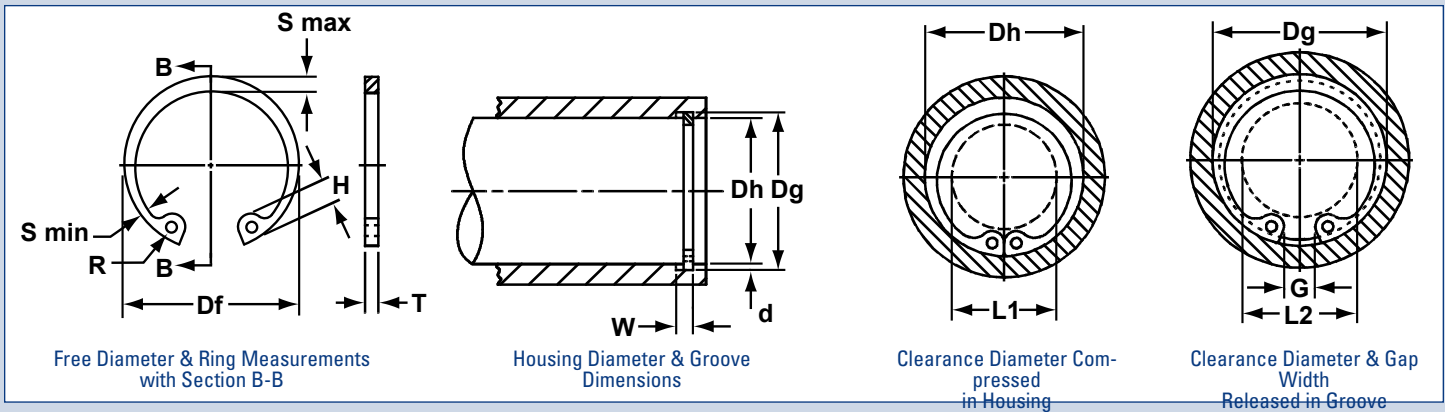
RING NO.	HOUSING DIAMETER			GROOVE SIZE					RING SIZE & WEIGHT				CLEARANCE DIA.		THRUST LD. (lbs.) Sqr. Corner Abutment		
	Dh DEC	Dh FRAC	Dh mm	DIAMETER		WIDTH		DEPTH	FREE DIAMETER		THICKNESS***		Weight Per 1000 Pcs.	L1	L2	Ring Safety factor of 4 Pr	Groove Safety factor of 2 Pg
				Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.					
HO-0175	1.750	1-3/4	44.4	1.858	±.005 .005*	.068	+.004 -.000	.054	1.942	+.035 -.025	.062	±.003	10.3	1.26	1.36	15580	8050
HO-0181	1.812	1-13/16	46.0	1.922		.068		.055	2.012		.062		11.5	1.34	1.38	16139	8450
HO-0185	1.850	-	47.0	1.962		.068		.056	2.054		.062		12.8	1.35	1.46	16443	8750
HO-0187	1.875	1-7/8	47.6	1.989		.068		.057	2.072		.062		12.8	1.37	1.48	16697	9050
HO-0193	1.938	1-15/16	49.2	2.056		.068		.059	2.141		.062		13.3	1.46	1.58	17255	9700
HO-0200	2.000	2	50.8	2.122		.068		.061	2.210		.062		14.0	1.52	1.64	17763	10300
HO-0206	2.047	-	52.0	2.171		.086		.062	2.280		.078		18.0	1.52	1.64	23091	10850
HO-0206	2.062	2-1/16	52.4	2.186		.086		.062	2.280		.078		18.0	1.54	1.66	23091	10850
HO-0212	2.125	2-1/8	54.0	2.251		.086		.063	2.350		.078		19.4	1.58	1.70	23751	11350
HO-0218	2.188	2-3/16	55.6	2.318		.086		.065	2.415		.078		19.6	1.63	1.75	24461	12050
HO-0218	2.188	2-3/16	55.6	2.318	.086	.065	2.415	.078	19.6	1.66	1.79	24461	12050				
HO-0225	2.250	2-1/4	57.1	2.382	.086	.066	2.490	.078	21.8	1.67	1.80	25223	12600				
HO-0231	2.312	2-5/16	58.7	2.450	.086	.069	2.560	.078	22.6	1.73	1.93	25832	13550				
HO-0237	2.375	2-3/8	60.3	2.517	.086	.071	2.630	.078	23.2	1.79	1.86	26542	14300				
HO-0244	2.440	2-7/16	62.0	2.584	.086	.072	2.702	.078	25.4	1.86	2.00	27304	14900				
HO-0250	2.500	2-1/2	63.5	2.648	.086	.074	2.775	.078	25.5	1.91	2.05	28014	15650				
HO-0250	2.531	2-17/32	64.3	2.681	.086	.075	2.775	.078	25.5	1.94	2.09	28014	15650				
HO-0256	2.562	2-9/16	65.1	2.714	.103	.076	2.844	.093	34.0	1.93	2.08	34206	16500				
HO-0262	2.625	2-5/8	66.7	2.781	.103	.078	2.910	.093	34.5	2.02	2.17	35068	17350				
HO-0268	2.677	-	68.0	2.837	.103	.080	2.980	.093	35.0	2.05	2.21	35931	18250				
HO-0268	2.688	2-11/16	68.3	2.848	.103	.080	2.980	.093	35.0	2.06	2.22	35931	18250				
HO-0275	2.750	2-3/4	69.8	2.914	.103	.082	3.050	.093	35.5	2.12	2.28	36642	19200				
HO-0281	2.812	2-13/16	71.4	2.980	.103	.084	3.121	.093	36.0	2.18	2.34	37504	20050				
HO-0281	2.835	-	72.0	3.006	.103	.085	3.121	.093	36.0	2.21	2.38	37504	20050				
HO-0287	2.875	2-7/8	73.0	3.051	.103	.088	3.191	.093	41.0	2.24	2.41	38367	21500				
HO-0300	2.953	-	75.0	3.135	.103	.091	3.325	.093	42.5	2.32	2.50	40093	23150				
HO-0300	3.000	3	76.2	3.182	.103	.091	3.325	.093	42.5	2.37	2.55	40093	23150				
HO-0306	3.062	3-1/16	77.8	3.248	.120	.093	3.418	.109	53.0	2.41	2.59	47807	24100				
HO-0312	3.125	3-1/8	79.4	3.315	.120	.095	3.488	.109	56.0	2.47	2.66	48822	25200				
HO-0315	3.149	-	80.0	3.341	.120	.096	3.523	.109	57.0	2.49	2.68	49329	25700				
HO-0315	3.156	3-5/32	80.2	3.348	.120	.096	3.523	.109	57.0	2.50	2.69	49329	25700				
HO-0325	3.250	3-1/4	82.5	3.446	.120	.098	3.623	.109	60.0	2.54	2.73	50750	27000				
HO-0334	3.346	3-11/32	85.0	3.546	.120	.100	3.734	.109	65.0	2.63	2.83	52374	28300				
HO-0347	3.469	3-15/32	88.1	3.675	.120	.103	3.857	.109	69.0	2.76	2.96	54201	30200				
HO-0350	3.500	3-1/2	88.9	3.710	.120	.105	3.890	.109	71.0	2.79	3.00	54709	31200				
HO-0354	3.543	-	90.0	3.755	.120	.106	3.936	.109	72.0	2.83	3.04	55419	31800				

* F.I.M. (Full indicator movement)- maximum allowable deviation of concentricity between groove & housing.

† Based on housings/shafts made of cold rolled steel. For an explanation of formulas used to derive thrust load and other performance data, contact a daemar technical sales representative.

***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.

ONCE INSTALLED IN THE GROOVE OF A HOUSING/BORE, THE SHOULDER HOLDS AN ASSEMBLY IN PLACE.

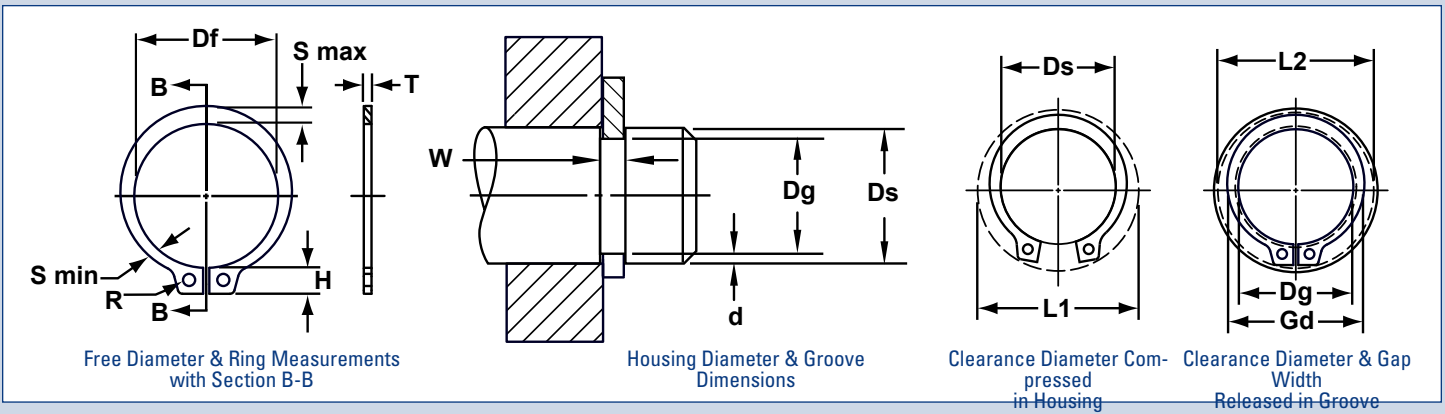


RING NO.	HOUSING DIAMETER			GROOVE SIZE					RING SIZE & WEIGHT					CLEARANCE DIA.		↑ THRUST LD. (lbs.) Sqr. Corner Abutment	
				DIAMETER		WIDTH		DEPTH	FREE DIAMETER		THICKNESS***		Weight Per 1000 Pcs.				
	Dh DEC	Dh FRAC	Dh mm	Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	lbs.	L1	L2	Pr	Pg
HO-0354	3.562	3-9/16	90.5	3.776	±.006 .006*	.120	+.005 -.000	.107	3.936	±.055	.109	±.003	72.0	2.85	3.06	55419	31800
HO-0362	3.625	3-5/8	92.1	3.841		.120		.108	4.024		.109		73.0	2.91	3.12	56739	33200
HO-0375	3.740	-	95.0	3.964		.120		.112	4.157		.109		78.0	3.02	3.24	58566	35600
HO-0375	3.750	3-3/4	95.2	3.974		.120		.112	4.157	.109	78.0		3.03	3.25	58566	35600	
HO-0387	3.875	3-7/8	98.4	4.107		.120		.116	4.291	.109	87.0		3.11	3.34	60494	38000	
HO-0393	3.938	3-15/16	100.0	4.174		.120		.118	4.358	.109	88.0		3.17	3.40	61611	39300	
HO-0400	4.000	4	101.6	4.240		.120		.120	4.424	.109	93.0		3.23	3.47	62626	40700	
HO-0412	4.125	4-1/8	104.8	4.365		.120		.120	4.558	.109	97.0		3.36	3.60	64554	42000	
HO-0425	4.250	4-1/4	108.0	4.490		.120		.120	4.691	.109	101.0		3.48	3.72	66483	43200	
HO-0433	4.331	-	110.0	4.571		.120		.120	4.756	.109	105.0		3.50	3.74	67599	44500	
HO-0450	4.500	4-1/2	114.3	4.740	.120	.120	4.940	.109	111.0	3.66	3.90	70340	45800				
HO-0462	4.625	4-5/8	117.5	4.865	.120	.120	5.076	.109	117.0	3.79	4.03	72370	47000				
HO-0475	4.724	-	120.0	4.969	.120	.122	5.213	.109	124.0	3.88	4.12	74298	49000				
HO-0475	4.750	4-3/4	120.6	4.995	.120	.122	5.213	.109	124.0	3.90	4.14	74298	49000				
HO-0500	5.000	5	127.0	5.260	.120	.130	5.485	.109	136.0	4.08	4.34	78155	55000				
HO-0525	5.250	5-1/4	133.3	5.520	±.007 .006*	.139	+.006 -.000	.135	5.770	±.004	.125	±.005	174.0	4.35	4.62	94091	60000
HO-0537	5.375	5-3/8	136.5	5.650		.139		.135	5.910		.125		179.0	4.45	4.72	96324	61500
HO-0550	5.500	5-1/2	139.7	5.770		.139		.135	6.066		.125		183.0	4.57	4.84	98658	63300
HO-0575	5.750	5-3/4	146.0	6.020		.139		.135	6.336		.125		192.0	4.82	5.09	103124	65900
HO-0600	6.000	6	152.4	6.270		.139		.135	6.620		.125		202.1	5.07	5.34	107489	68600
HO-0625	6.250	6-1/4	158.7	6.530	.174	.140	6.895	±.080	.156	±.005	.156	±.005	266.0	5.24	5.52	139766	74100
HO-0650	6.500	6-1/2	165.1	6.790	.174	.145	7.170		.156		281.0		5.49	5.78	145450	79900	
HO-0662	6.625	6-5/8	168.3	6.925	.174	.150	7.308		.156		305.0		5.60	5.90	148190	84200	
HO-0675	6.750	6-3/4	171.4	7.055	.174	.152	7.445	.156	325.0	5.68	5.98	151032	87000				
HO-0700	7.000	7	177.8	7.315	.174	.157	7.720	.156	344.0	5.91	6.22	156615	93100				
HO-0725	7.250	7-1/4	184.1	7.575	.209	.162	7.995	±.090	.187	±.005	.187	±.005	428.0	6.11	6.43	194373	99600
HO-0750	7.500	7-1/2	190.5	7.840	.209	.170	8.270		.187		485.0		6.36	6.70	201173	108100	
HO-0775	7.750	7-3/4	196.8	8.100	.209	.175	8.545		.187		520.0		6.58	6.93	207872	115000	
HO-0800	8.000	8	203.2	8.360	±.008 .006*	.209	+.008 -.000	.180	8.820	±.005	.187	±.005	555.0	6.83	7.19	214571	122000
HO-0825	8.250	8-1/4	209.5	8.620		.209		.185	9.095		.187		603.0	7.04	7.41	221270	129300
HO-0850	8.500	8-1/2	215.9	8.880		.209		.190	9.285		.187		634.0	7.29	7.67	227969	136900
HO-0875	8.750	8-3/4	222.2	9.145		.209		.197	9.558		.187		653.0	7.38	7.77	233856	145500
HO-0900	9.000	9	228.6	9.405		.209		.202	9.830		.187		732.0	7.63	8.03	241367	154100
HO-0925	9.250	9-1/4	235.0	9.668		.209		.209	10.102		.187		767.0	7.88	8.30	248066	163600
HO-0950	9.500	9-1/2	241.3	9.930		.209		.215	10.375		.187		803.0	7.98	8.41	254765	173100
HO-0975	9.750	9-3/4	247.7	10.190		.209		.220	10.648		.187		833.0	8.23	8.67	261464	181900
HO-1000	10.000	10	254.0	10.450		.209		.225	10.920		.187		863.0	8.48	8.93	268163	190700

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ONCE INSTALLED IN THE GROOVE OF A HOUSING/BORE, THE SHOULDER HOLDS AN ASSEMBLY IN PLACE.



RING NO.	HOUSING DIAMETER			GROOVE SIZE					RING SIZE & WEIGHT					CLEARANCE DIA.		↑ THRUST LD. (lbs.) Sqr. Corner Abutment	
	Dh DEC	Dh FRAC	Dh mm	DIAMETER		WIDTH		DEPTH	FREE DIAMETER		THICKNESS***		Weight Per 1000 Pcs.	L1	L2	Ring Safety factor of 4	Groove Safety factor of 2
				Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.					
**SH-	0.125	1/8	3.2	.117	±.0015 .0015*	.012	+.002 -.000	.004	.112	+.002 -.004	.010	±.001	.018	.222	.214	112	35
**SH-	0.156	5/32	4.0	.146		.012		.005	.142		.010		.037	.27	.260	132	55
**SH-	.188	3/16	4.8	.175		.018		.006	.168		.015		.059	.298	.286	244	80
**SH-	.197	-	5.0	.185		.018		.006	.179		.015		.063	.319	.307	254	85
**SH-	.219	7/32	5.6	.205		.018		.007	.196		.015		.074	.338	.324	284	110
**SH-	.236	15/64	6.0	.222		.018		.007	.215		.015		.086	.355	.341	315	120
SH-0025	.250	1/4	6.4	.230	.029	.010	.225	.025	.21	.45	.43	599	175				
SH-0027	.276	-	7.0	.255	.029	.010	.250	.025	.23	.48	.46	660	195				
SH-0028	.281	9/32	7.1	.261	.029	.010	.256	.025	.24	.49	.47	670	200				
SH-0031	.312	5/16	7.9	.290	.029	.011	.281	.025	.27	.54	.52	751	240				
SH-0034	.344	11/32	8.7	.321	.029	.011	.309	.025	.31	.57	.55	812	265				
SH-0035	.354	-	9.0	.330	.029	.012	.320	.025	.35	.59	.57	832	300				
SH-0037	.375	3/8	9.5	.352	.029	.012	.338	.025	.39	.61	.59	883	320				
SH-0039	.394	-	10.0	.369	.029	.012	.354	.025	.42	.62	.60	954	335				
SH-0040	.406	13/32	10.3	.382	.029	.012	.366	.025	.43	.63	.61	964	350				
SH-0043	.438	7/16	11.1	.412	.029	.013	.395	.025	.50	.66	.64	1035	400				
	.461	-	11.7	.435	.029	.013	.420	.025	.51	.68	.66	1110	460				
SH-0046	.469	15/32	11.9	.443	.029	.013	.428	.025	.54	.68	.66	1117	450				
SH-0050	.500	1/2	12.7	.468	.039	.016	.461	.035	.91	.77	.74	1675	550				
SH-0055	.551	-	14.0	.519	.039	.016	.509	.035	.90	.81	.78	1800	600				
SH-0056	.562	9/16	14.3	.530	.039	.016	.521	.035	1.1	.82	.79	1878	650				
SH-0059	.594	19/32	15.1	.559	.039	.017	.550	.035	1.2	.86	.83	1979	750				
SH-0062	.625	5/8	15.9	.588	.039	.018	.579	.035	1.3	.90	.87	2091	800				
SH-0066	.669	-	17.0	.629	.039	.020	.621	.035	1.4	.93	.89	2233	950				
SH-0066	.672	43/64	17.1	.631	.039	.020	.621	.035	1.4	.93	.89	2233	950				
SH-0068	.688	11/16	17.5	.646	.046	.021	.635	.042	1.8	1.01	.97	3451	1000				
SH-0075	.750	3/4	19.0	.704	.046	.023	.693	.042	2.1	1.09	1.05	3756	1200				
SH-0078	.781	25/32	19.8	.733	.046	.024	.722	.042	2.2	1.12	1.08	3959	1300				
SH-0081	.812	13/16	20.6	.762	.046	.025	.751	.042	2.5	1.15	1.10	4060	1450				
SH-0084	.844	-	21.4	.791	.046	.026	.780	.042	2.7	1.18	1.13	4200	1500				
SH-0087	.875	7/8	22.2	.821	.046	.027	.810	.042	2.8	1.21	1.16	4365	1650				
SH-0093	.938	15/16	23.8	.882	.046	.028	.867	.042	3.1	1.34	1.29	4720	1850				
SH-0098	.984	63/64	25.0	.926	.046	.029	.910	.042	3.5	1.39	1.34	4923	2000				
SH-0100	1.000	1	25.4	.940	.046	.030	.925	.042	3.6	1.41	1.35	5024	2100				
SH-0102	1.023	-	26.0	.961	.046	.031	.946	.042	3.9	1.43	1.37	5126	2250				

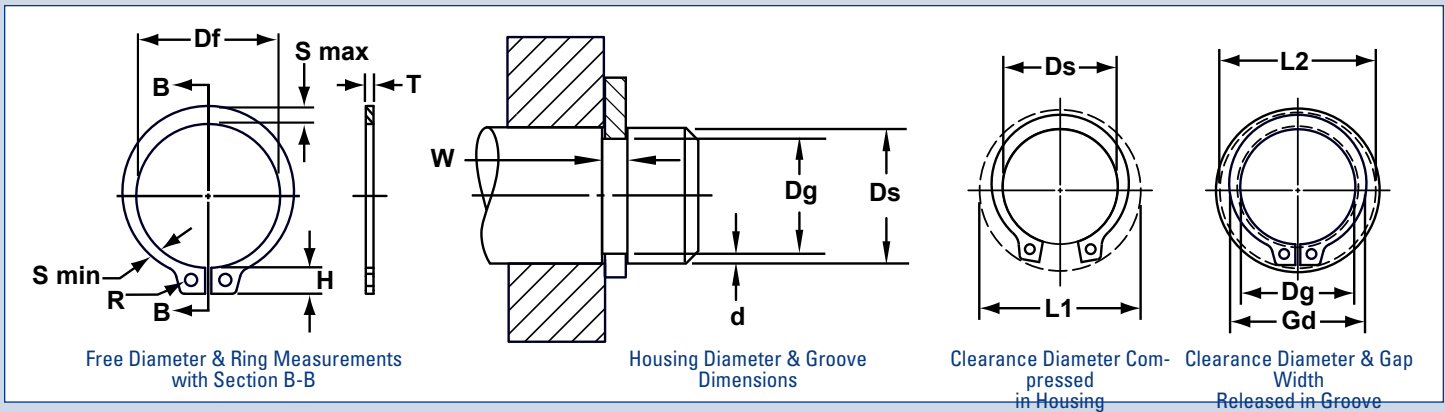
**Sizes -12 thru -23 standard material- carbon steel; optional material- beryllium copper.

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ONCE INSTALLED IN THE GROOVE OF A HOUSING/BORE, THE SHOULDER HOLDS AN ASSEMBLY IN PLACE.



RING NO.	HOUSING DIAMETER			GROOVE SIZE					RING SIZE & WEIGHT					CLEARANCE DIA.			↑ THRUST LD. (lbs.) Sqr. Corner Abutment	
	Dh DEC	Dh FRAC	Dh mm	DIAMETER		WIDTH		DEPTH	FREE DIAMETER		THICKNESS***		Weight Per 1000 Pcs.	L1	L2	Ring Safety factor of 4	Groove Safety factor of 2	
				Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.						lbs.
SH-0106	1.062	1-1/16	27.0	.998	±.004	.056	+0.004	.032	.982	+0.010	.050	±.002	4.8	1.50	1.44	6293	2400	
SH-0112	1.125	1-1/8	28.6	1.059	.005*	.056	-0.000	.033	1.041	-0.015	.050		5.1	1.55	1.49	6699	2600	
SH-0118	1.188	1-3/16	30.2	1.118	±.004 .005*	.056	+0.004 -0.000	.035	1.098	+0.010 -0.015	.050		5.6	1.61	1.54	7105	2950	
SH-0125	1.250	1-1/4	31.7	1.176		.056		.037	1.156		.050		5.9	1.69	1.62	7460	3250	
SH-0131	1.312	1-5/16	33.3	1.232		.056		.040	1.214		.050		6.8	1.75	1.67	7866	3700	
SH-0137	1.375	1-3/8	34.9	1.291		.056		.042	1.272		.050		7.2	1.80	1.72	8222	4100	
SH-0143	1.438	1-7/16	36.5	1.350		.056		.044	1.333		.050		8.1	1.87	1.79	8628	4500	
SH-0150	1.500	1-1/2	38.1	1.406		.056		.047	1.387		.050		9.0	1.99	1.90	8932	5000	
SH-0156	1.562	1-9/16	39.7	1.468		.068		.047	1.446		.062		12.4	2.10	2.01	11571	5200	
SH-0162	1.625	1-5/8	41.3	1.529		.068		.048	1.503		.062		13.2	2.17	2.08	12028	5500	
SH-0168	1.688	1-11/16	42.9	1.589		.068		.049	1.560		.062	14.8	2.24	2.15	12535	5850		
SH-0175	1.750	1-3/4	44.4	1.650		.068		.050	1.618		.062	15.3	2.31	2.21	12992	6200		
SH-0177	1.772	-	45.0	1.669	±.005 .005*	.068	.051	1.637	+0.013 -0.020	.062	.062	15.4	2.33	2.23	13144	6400		
SH-0181	1.812	1-13/16	46.0	1.708	±.005 .006*	.068	+0.004 -0.000	.052	1.675	+0.015 -0.025	.062	15.6	2.38	2.28	13449	6650		
SH-0187	1.875	1-7/8	47.6	1.769		.068		.053	1.735		.062	17.3	2.44	2.34	13906	7000		
SH-0196	1.969	1-31/32	50.0	1.857		.068		.056	1.819		.062	18.0	2.57	2.46	14565	7800		
SH-0200	2.000	2	50.8	1.886		.068		.057	1.850		.062	19.0	2.60	2.49	14819	8050		
SH-0206	2.062	2-1/16	52.4	1.946		.086		.058	1.906		.078	25.0	2.68	2.57	19234	8450		
SH-0212	2.125	2-1/8	54.0	2.003		.086		.061	1.964		.078	26.1	2.78	2.66	19793	9150		
SH-0215	2.156	2-5/32	54.8	2.032		.086		.062	1.993		.078	26.3	2.81	2.69	20097	9450		
SH-0225	2.250	2-1/4	57.1	2.120		.086		.065	2.081		.078	27.7	2.88	2.76	21011	10350		
SH-0231	2.312	2-5/16	58.7	2.178		.086		.067	2.139		.078	28.0	2.94	2.81	21518	10950		
SH-0237	2.375	2-3/8	60.3	2.239		.086		.068	2.197		.078	29.2	3.06	2.93	22127	11400		
SH-0243	2.438	2-7/16	61.9	2.299	.086	.069	2.255	.078	29.5	3.07	2.94	22736	11900					
SH-0250	2.500	2-1/2	63.5	2.360	.086	.070	2.313	.078	29.7	3.17	3.03	23345	12350					
SH-0255	2.559	-	65.0	2.419	.086	.070	2.377	.078	33.9	3.18	3.04	23853	12650					
SH-0262	2.625	2-5/8	66.7	2.481	±.006 .006*	.086	+0.005 -0.000	.072	2.428	+0.020 -0.030	.078	35.0	3.30	3.16	24462	13350		
SH-0268	2.688	2-11/16	68.3	2.541	.086	.073	2.485	.078	36.0		3.37	3.23	25071	13850				
SH-0275	2.750	2-3/4	69.8	2.602	.103	.074	2.543	.093	42.5		3.48	3.34	30551	14400				
SH-0287	2.875	2-7/8	73.0	2.721	.103	.077	2.659	.093	48.5		3.60	3.45	31973	15650				
SH-0293	2.938	2-15/16	74.6	2.779	.103	.079	2.717	.093	50.0		3.66	3.51	32683	16400				
SH-0300	3.000	3	76.2	2.838	.103	.081	2.775	.093	52.0		3.60	3.44	33394	17200				
SH-0306	3.062	3-1/16	77.8	2.898	.103	.082	2.832	.093	47.5		3.74	3.58	34003	17750				
SH-0312	3.125	3-1/8	79.4	2.957	.103	.084	2.892	.093	58.0		3.85	3.69	34815	18550				
SH-0315	3.156	3-5/32	80.2	2.986	.103	.085	2.920	.093	59.0		3.88	3.71	35119	18950				
SH-0325	3.250	3-1/4	82.5	3.076	.103	.087	3.006	.093	62.0		3.93	3.76	36134	20000				

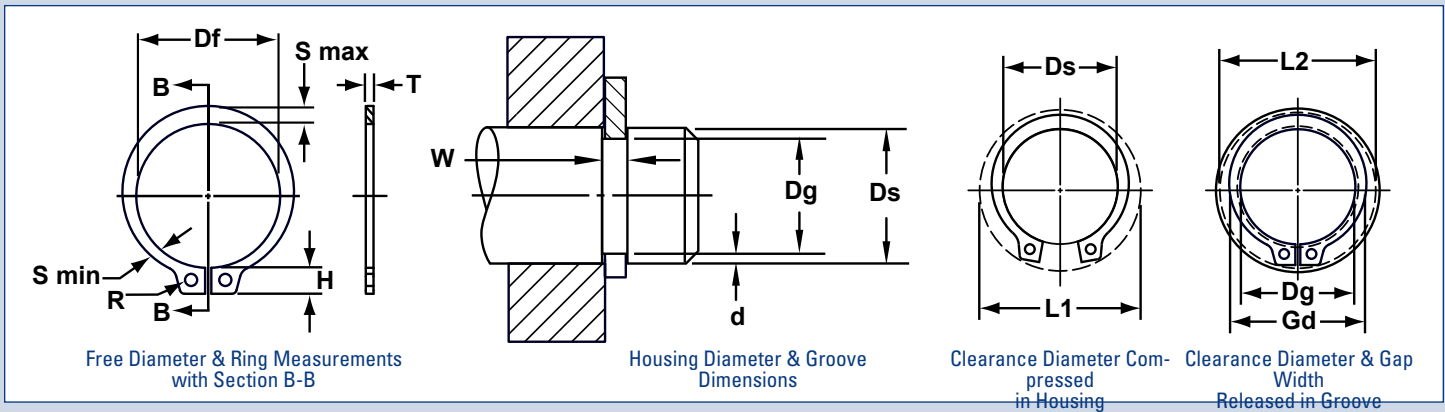
**Sizes -12 thru -23 standard material- carbon steel; optional material- beryllium copper.

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RING NO.	HOUSING DIAMETER			GROOVE SIZE					RING SIZE & WEIGHT					CLEARANCE DIA.		↑ THRUST LD. (lbs.) Sqr. Corner Abutment	
	Dh DEC	Dh FRAC	Dh mm	DIAMETER		WIDTH		DEPTH	FREE DIAMETER		THICKNESS***		Weight Per 1000 Pcs.	L1	L2	Ring Safety factor of 4 Pr	Groove Safety factor of 2 Pg
				Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.					
SH-0334	3.346	3-11/32	85.0	3.166		.103		.090	3.092		.093		64.0	4.02	3.85	37251	21000
SH-0343	3.438	3-7/16	87.3	3.257		.103		.090	3.179		.093		66.0	4.14	3.96	38266	21900
SH-0350	3.500	3-1/2	88.9	3.316		.120		.092	3.237		.109		72.0	4.16	3.98	45574	22800
SH-0354	3.543	-	90.0	3.357		.120		.093	3.277		.109		73.0	4.25	4.07	46183	23300
SH-0362	3.625	3-5/8	92.1	3.435		.120		.095	3.352		.109		76.0	4.33	4.14	47299	24300
SH-0368	3.688	3-11/16	93.7	3.493		.120		.097	3.410		.109		80.0	4.31	4.12	48010	25300
SH-0375	3.750	3-3/4	95.2	3.552		.120		.099	3.468		.109		83.0	4.52	4.33	48822	26200
SH-0387	3.875	3-7/8	98.40	3.673	±.006	.120	+0.005	.101	3.584	+0.020	.109	±.003	88.0	4.62	4.42	50446	27700
SH-0393	3.938	3-15/16	100.0	3.734	.006*	.120	-0.000	.102	3.642	-0.030	.109		95.0	4.70	4.50	51359	28400
SH-0400	4.000	4	101.6	3.792		.120		.104	3.700		.109		101.0	4.76	4.56	52171	29400
SH-0412	4.125	4-1/8	104.8	3.915		.120		.105	3.800		.109		101.2	5.00	4.78	53200	29800
SH-0425	4.250	4-1/4	108.0	4.065		.120		.092	3.989		.109		112.0	4.98	4.80	55419	27600
SH-0437	4.375	4-3/8	111.1	4.190		.120		.092	4.106		.109		115.0	5.22	5.04	57043	28400
SH-0450	4.500	4-1/2	114.3	4.310		.120		.095	4.223		.109		132.0	5.37	5.18	58667	30200
SH-0475	4.750	4-3/4	120.6	4.550		.120		.100	4.458		.109		113.0	5.62	5.42	61915	33600
SH-0500	5.000	5	127.0	4.790		.120		.105	4.692		.109		149.0	5.77	5.56	65163	37100
SH-0525	5.250	5-1/4	133.3	5.030		.139		.110	4.927		.125		190.0	6.01	5.89	78460	40800
SH-0550	5.500	5-1/2	139.7	5.265	±.007	.139	+0.006	.117	5.162	+0.020	.125	±.004	202.5	6.45	6.22	82215	45500
SH-0575	5.750	5-3/4	146.0	5.505	.006*	.139	-0.000	.122	5.396	-0.040	.125		220.0	6.69	6.45	85971	49600
SH-0600	6.000	6	152.4	5.745		.139		.127	5.631		.125		210.0	6.91	6.66	89625	53800
SH-0625	6.250	6-1/4	158.7	5.985		.174		.132	5.866		.156		282.0	7.26	7.00	116522	58300
SH-0650	6.500	6-1/2	165.1	6.225		.174		.137	6.100	+0.020	.156	±.005	330.0	7.62	7.35	121191	62900
SH-0675	6.750	6-3/4	171.4	6.465		.174		.142	6.335	-0.050	.156		356.0	7.83	7.55	125860	67700
SH-0700	7.000	7	177.8	6.705		.174		.147	6.570		.156		371.0	7.86	7.78	130529	72700
SH-0725	7.250	7-1/4	184.2	6.942		.209		.154	6.775		.187		510.0	7.59	8.13	162096	78900
SH-0750	7.500	7-1/2	190.5	7.180		.209		.160	7.009		.187		534.0	8.73	8.41	167678	84800
SH-0775	7.750	7-3/4	196.9	7.420		.209		.165	7.243		.187		545.0	8.85	8.52	173261	90450
SH-0800	8.000	8	203.2	7.660	±.008	.209	+0.008	.170	7.478		.187	±.005	640.0	9.25	8.91	178843	96100
SH-0825	8.250	8-1/4	209.6	7.900	.006*	.209	-0.000	.175	7.712	+0.050	.187	-0.130	665.0	9.54	9.19	184426	102100
SH-0850	8.500	8-1/2	215.9	8.140		.209		.180	7.947		.187		692.0	9.79	9.43	190008	108100
SH-0875	8.750	8-3/4	222.3	8.380		.209		.185	8.181		.187		712.0	10.40	10.00	195591	114450
SH-0900	9.000	9	228.6	8.620		.209		.190	8.415		.187		737.0	10.60	10.22	201173	120800
SH-0925	9.250	9-1/4	234.9	8.860		.209		.195	8.650		.187		760.0	10.85	10.50	206756	128225
SH-0950	9.500	9-1/2	241.3	9.100		.209		.200	8.885		.187		785.0	11.10	10.70	212338	134200
SH-0975	9.750	9-3/4	247.6	9.338		.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

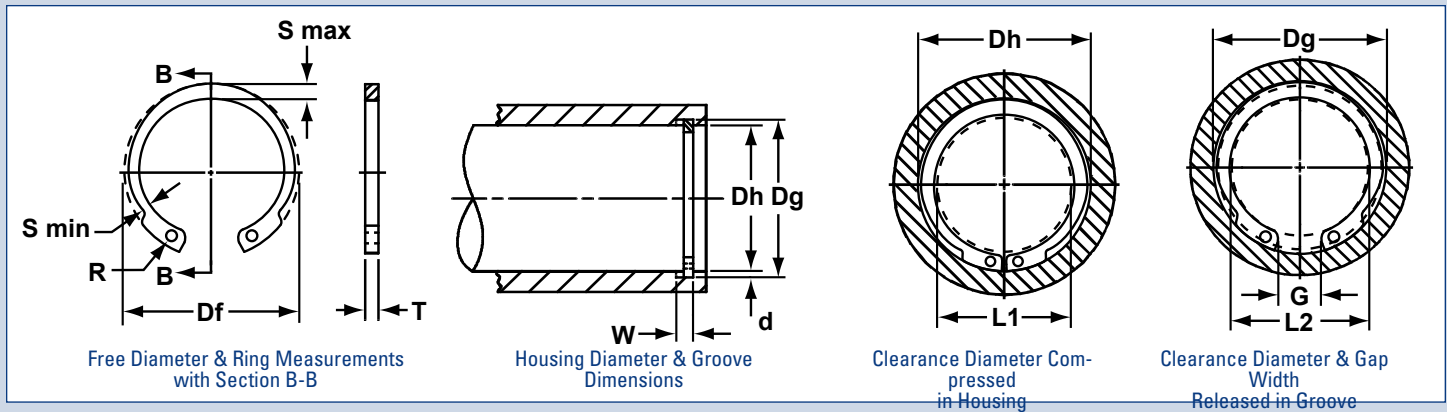
**Sizes -12 thru -23 standard material- carbon steel; optional material- beryllium copper.

* F.I.M. (Full indicator movement)- maximum allowable deviation of concentricity between groove & shaft.

↑ 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.

THE INVERTED POSITION OF THE LUGS AFFORDS GREATER CLEARANCE THAN THE BASIC INTERNAL RETAINING RING.



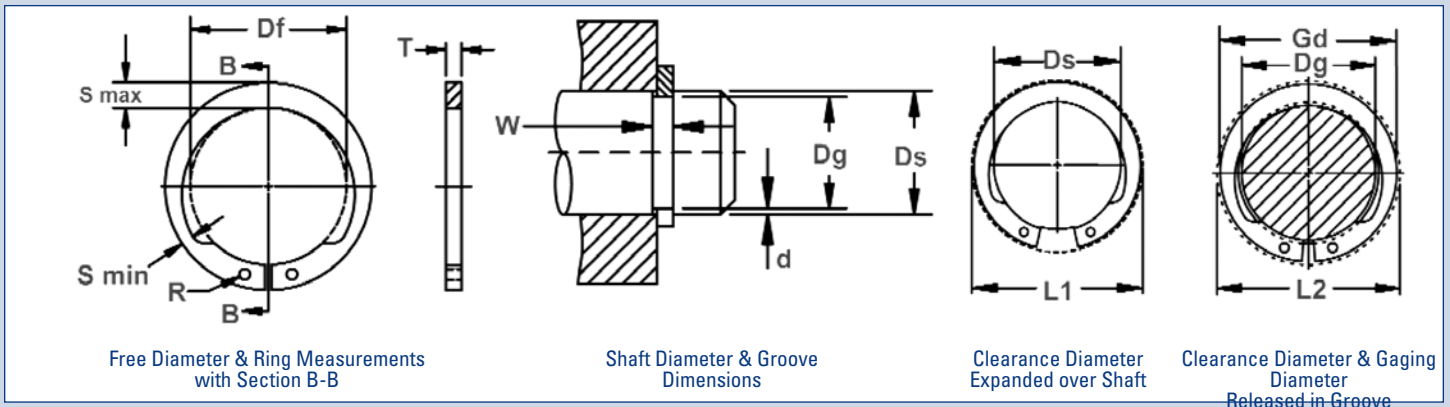
RING NO.	HOUSING DIAMETER			GROOVE SIZE					RING SIZE & WEIGHT				CLEARANCE DIA.		↑ THRUST LD. (lbs.) Sqr. Corner Abutment		
				DIAMETER		WIDTH		DEPTH	FREE DIAMETER		THICKNESS***		Weight Per 1000 Pcs.	L1	L2	Ring Safety factor Pr	Groove Safety factor Pg
	Dh DEC	Dh FRAC	Dh mm	Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.					
HOI-0062	.625	5/8	15.9	.665	±.002	.029		.020	.675		.025		0.7	.47	.51	1015	450
HOI-0075	.750	3/4	19.0	.796	.004*	.039		.023	.808		.035		1.3	.56	.605	1675	600
HOI-0081	.812	13/16	20.6	.862		.046	+0.003	.025	.877	+0.010	.042		2.0	.62	.665	2639	700
HOI-0087	.875	7/8	22.2	.931	±.003	.046	-0.000	.028	.944	-0.005	.042		2.2	.65	.705	2893	850
HOI-0093	.938	15/16	23.8	1.000	.004*	.046		.031	1.015		.042		2.8	.70	.755	3147	1000
HOI-0100	1.000	1	25.4	1.066		.046		.033	1.081		.042		2.9	.75	.81	3350	1150
HOI-0106	1.062	1-1/16	27.0	1.130		.056		.034	1.150		.050		3.8	.80	.87	4212	1250
HOI-0112	1.125	1-1/8	28.6	1.197		.056		.036	1.217		.050	±.002	4.4	.86	.93	4466	1400
HOI-0118	1.188	1-3/16	30.2	1.262		.056		.037	1.283		.050		4.9	.91	.98	4720	1600
HOI-0125	1.250	1-1/4	31.7	1.330	±.004	.056		.040	1.351	+0.015	.050		5.0	.97	1.05	4974	1750
HOI-0131	1.312	1-5/16	33.3	1.396	.005*	.056		.042	1.418	-0.010	.050		5.3	1.02	1.10	5227	1950
HOI-0137	1.375	1-3/8	34.9	1.461		.056		.043	1.486		.050		5.9	1.08	1.16	5481	2100
HOI-0143	1.438	1-7/16	36.5	1.528		.056	+0.004	.045	1.552		.050		6.3	1.13	1.22	5735	2300
HOI-0150	1.500	1-1/2	38.1	1.594		.056	-0.000	.047	1.622		.050		6.8	1.18	1.27	5938	2500
HOI-0156	1.562	1-9/16	39.7	1.658		.068		.048	1.688		.062		8.9	1.21	1.30	7714	2650
HOI-0162	1.625	1-5/8	41.3	1.725		.068		.050	1.756		.062		10.4	1.27	1.37	8019	2850
HOI-0168	1.688	1-11/16	42.9	1.792	±.005	.068		.052	1.823	+0.020	.062		11.9	1.32	1.42	8374	3100
HOI-0175	1.750	1-3/4	44.4	1.858	.005*	.068		.054	1.891	-0.013	.062		11.8	1.38	1.49	8678	3300
HOI-0187	1.875	1-7/8	47.6	1.989		.068		.057	2.025		.062		14.8	1.47	1.58	9287	3750
HOI-0200	2.000	2	50.8	2.122		.068		.061	2.160		.062		17.4	1.55	1.67	9896	4300
HOI-0206	2.062	2-1/16	52.4	2.186		.086		.062	2.224		.078		23.2	1.59	1.71	12840	4500
HOI-0212	2.125	2-1/8	54.0	2.251		.086		.063	2.295		.078		24.3	1.65	1.77	13246	4700
HOI-0237	2.375	2-3/8	60.3	2.517		.086		.071	2.567	+0.025	.078		28.6	1.86	2.00	14718	5900
HOI-0243	2.438	2-7/16	61.9	2.584		.086		.072	2.634	-0.015	.078		30.6	1.91	2.05	15124	6200
HOI-0250	2.500	2-1/2	63.5	2.648		.086		.074	2.700		.078		32.1	1.96	2.10	15530	6500
HOI-0262	2.625	2-5/8	66.7	2.781		.103		.078	2.840		.093	±.003	45.6	2.06	2.21	19488	7200
HOI-0275	2.750	2-3/4	69.8	2.914		.103		.082	2.975		.093		47.8	2.16	2.32	20300	7900
HOI-0283	2.812	2-13/16	71.4	2.980		.103		.084	3.063		.093		49.5	2.21	2.37	20808	8300
HOI-0283	2.835	-	72.0	3.006	±.006	.103	+0.005	.086	3.063	-0.000	.093		49.5	2.23	2.39	20808	8550
HOI-0287	2.875	2-7/8	73.0	3.051		.103		.088	3.105		.093		50.1	2.26	2.43	21315	8900
HOI-0300	3.000	3	76.2	3.182		.103		.091	3.245	+0.030	.093		52.6	2.36	2.53	22229	9600
HOI-0315	3.156	3-5/32	80.2	3.348		.120		.096	3.408	-0.020	.109		69.4	2.50	2.69	27405	10600
HOI-0325	3.250	3-1/4	82.5	3.446		.120		.098	3.509		.109		72.6	2.58	2.77	28217	11200
HOI-0334	3.346	3-11/32	85.0	3.546		.120		.100	3.611		.109		75.6	2.67	2.87	29029	11700
HOI-0350	3.500	3-1/2	88.9	3.710		.120		.105	3.780		.109		80.2	2.82	3.03	30349	12900
HOI-0356	3.562	3-9/16	90.5	3.776		.120		.107	3.850		.109		82.4	2.88	3.09	30958	13400
HOI-0400	4.000	4	101.6	4.240		.120		.120	4.350		.109		97.4	3.29	3.53	34713	16900

*F.I.M. (Full indicator movement)-maximum allowable deviation of concentricity between groove and housing.

† Based on housing/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 dept.

*** 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.

THE INVERTED POSITION OF THE LUGS AFFORDS GREATER CLEARANCE THAN THE BASIC INTERNAL RETAINING RING.



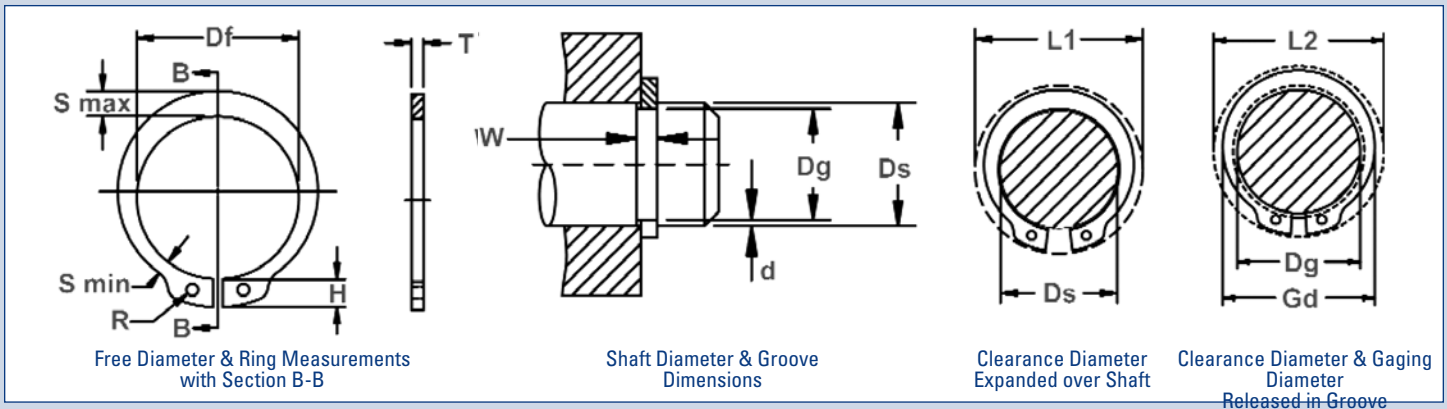
RING NO.	HOUSING DIAMETER			GROOVE SIZE					RING SIZE & WEIGHT					CLEARANCE DIA.		↑ THRUST LD. (lbs.) Sqr. Corner Abutment	
	Dh DEC	Dh FRAC	Dh mm	DIAMETER		WIDTH		DEPTH	FREE DIAMETER		THICKNESS***		Weight Per 1000 Pcs.	L1	L2	Ring Safety factor of 4	Groove Safety factor of 2
				Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.					
SHI-0050	.500	1/2	12.7	.468	±.002	.039		.016	.461		.035		1.0	.67	.645	1117	280
SHI-0056	.562	9/16	14.3	.530	.004*	.039		.016	.521		.035		1.4	.75	.72	1269	320
SHI-0059	.594	19/32	15.1	.559		.039		.017	.550		.035		1.6	.79	.76	1320	370
SHI-0062	.625	5/8	15.9	.588		.039		.018	.579		.035		1.6	.83	.80	1421	400
SHI-0068	.688	11/16	17.5	.646		.046		.021	.635		.042		2.5	.91	.87	2335	500
SHI-0075	.750	3/4	19.0	.704		.046	+0.003	.023	.693	+0.005	.042		2.8	.99	.95	2538	600
SHI-0078	.781	25/32	19.8	.733		.046	-0.000	.024	.722	-0.010	.042		3.1	1.04	1.00	2639	650
SHI-0081	.812	13/16	20.6	.762	±.003	.046		.025	.751		.042		3.3	1.08	1.03	2690	700
SHI-0087	.875	7/8	22.2	.821	.004*	.046		.027	.810		.042		3.8	1.15	1.10	2893	850
SHI-0093	.938	15/16	23.8	.882		.046		.028	.867		.042	±.002	4.5	1.23	1.18	3147	900
SHI-0100	.984	63/64	25.0	.926		.046		.029	.925		.042		4.8	1.30	1.25	3350	1000
SHI-0100	1.000	1	25.4	.940		.046		.030	.925		.042		4.8	1.31	1.26	3350	1050
SHI-0106	1.062	1-1/16	27.0	.998		.056		.032	.982		.050		6.2	1.38	1.32	4212	1200
SHI-0112	1.125	1-1/8	28.6	1.059		.056		.033	1.041		.050		6.7	1.45	1.39	4466	1300
SHI-0118	1.188	1-3/16	30.2	1.118		.056		.035	1.098		.050		7.2	1.52	1.46	4720	1450
SHI-0125	1.250	1-1/4	31.7	1.176	±.004	.056		.037	1.156	+0.010	.050		7.6	1.59	1.52	4974	1600
SHI-0131	1.312	1-5/16	33.3	1.232	.005*	.056		.040	1.214	-0.015	.050		8.2	1.66	1.58	5227	1850
SHI-0137	1.375	1-3/8	34.9	1.291		.056		.042	1.272		.050		8.4	1.73	1.65	5481	2050
SHI-0143	1.438	1-7/16	36.5	1.350		.056	+0.004	.044	1.333	-0.000	.050		9.1	1.80	1.72	5735	2200
SHI-0150	1.500	1-1/2	38.1	1.406		.056		.047	1.387		.050		9.8	1.87	1.78	5938	2500
SHI-0156	1.562	1-9/16	39.7	1.468		.068		.047	1.446		.062		12.9	1.95	1.86	7714	2600
SHI-0162	1.625	1-5/8	41.3	1.529		.068		.048	1.503		.062		13.4	2.02	1.93	8019	2750
SHI-0177	1.750	1-3/4	44.4	1.650	±.005	.068		.050	1.637	+0.013	.062		16.1	2.18	2.08	8628	3100
SHI-0177	1.772	-	45.0	1.669	.005*	.068		.051	1.637	-0.020	.062		16.1	2.20	2.10	8628	3200
SHI-0181	1.812	1-13/16	46.0	1.708		.068		.052	1.675		.062		17.3	2.24	2.14	8983	3300
SHI-0196	1.969	1-31/32	50.0	1.857		.068		.056	1.819		.062		20.5	2.43	2.32	9693	3900
SHI-0200	2.000	2	50.8	1.886		.068		.057	1.850		.062		20.7	2.47	2.36	9896	4000
SHI-0215	2.125	2-1/8	54.0	2.003		.086		.061	1.993	+0.015	.078	±.003	30.0	2.62	2.50	13195	4550
SHI-0215	2.156	2-5/32	54.8	2.032		.086		.062	1.993	-0.025	.078		30.0	2.65	2.53	13195	4700
SHI-0250	2.500	2-1/2	63.5	2.360		.086		.070	2.313		.078		43.5	3.05	2.92	15530	6200
SHI-0275	2.750	2-3/4	69.8	2.602	±.006	.103	+0.005	.074	2.543	-0.000	.093		57.9	3.34	3.20	20402	7200
SHI-0287	2.875	2-7/8	73.0	2.721	.006*	.103		.077	2.659		.093		64.5	3.49	3.34	21315	7800
SHI-0315	3.156	3-5/32	80.2	2.986		.103		.085	2.920	+0.020	.093		77.0	3.82	3.66	23447	9400
SHI-0325	3.250	3-1/4	82.5	3.076		.103		.087	3.006	-0.030	.093		77.5	3.93	3.76	24056	10000
SHI-0350	3.500	3-1/2	88.9	3.316		.120		.092	3.237		.109		107.0	4.22	4.04	30349	11500
SHI-0393	3.938	3-15/16	100.0	3.734		.120		.102	3.642		.109		123.0	4.71	4.51	34206	14000

* F.I.M. (Full indicator movement)-maximum allowable deviation of concentricity between groove and shaft.

† 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 ring thickness. Maximum ring thickness will be a minimum of .0002" less than the listed groove width (w) minimum.

THIS HEAVY DUTY RING AFFORDS THE USER HIGHER THRUST LOAD CAPACITY.



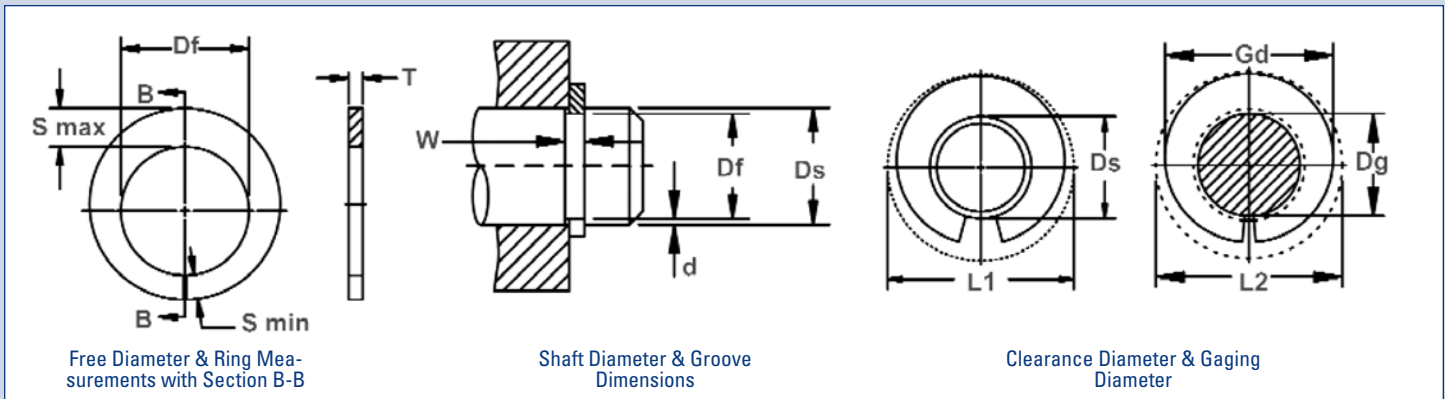
RING NO.	HOUSING DIAMETER			GROOVE SIZE					RING SIZE & WEIGHT					CLEARANCE DIA.		↑ THRUST LD. (lbs.) Sqr. Corner Abutment	
	Dh DEC	Dh FRAC	Dh mm	DIAMETER		WIDTH		DEPTH	FREE DIAMETER		THICKNESS***		Weight Per 1000 Pcs.	L1	L2	Ring Safety factor of 4 Pr	Groove Safety factor of 2 Pg
				Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.					
SHR-0039	.394	-	10.0	.368		.039		.013	.362	+0.003	.035		.70	.61	.58	2030	700
SHR-0042	.428	-	10.9	.402	+0.001	.039	+0.003	.013	.394	-0.008	.035		.86	.65	.62	2335	800
SHR-0047	.473	-	12.0	.444		.046		.015	.435		.042		1.4	.69	.66	3045	1000
SHR-0050	.500	1/2	12.7	.468		.056		.016	.460		.050	±0.002	1.6	.75	.72	3959	1100
SHR-0059	.591	-	15.0	.555		.056	+0.004	.018	.543		.050		2.2	.86	.83	4568	1500
SHR-0062	.625	5/8	15.9	.588		.056	-0.000	.019	.575		.050		2.3	.90	.86	4872	1600
SHR-0066	.669	-	17.0	.629		.056		.020	.616	+0.005	.050		2.6	.94	.90	5278	1900
SHR-0075	.750	3/4	19.0	.704	+0.001	.086		.023	.689	-0.010	.078		5.6	1.12	1.08	9135	2400
SHR-0075	.787	-	20.0	.740	-0.003	.086		.024	.689		.078		5.6	1.16	1.12	9135	2400
SHR-0087	.875	7/8	22.2	.821		.086		.027	.804		.078		7.5	1.25	1.20	10556	3300
SHR-0098	.984	63/64	25.0	.925		.086		.030	.906		.078		7.8	1.36	1.30	11673	4000
SHR-0098	1.000	1	25.4	.938		.086		.031	.906		.078		7.8	1.37	1.31	11673	4000
SHR-0106	1.062	1-1/16	27.0	.998		.103		.032	.978		.093		11.5	1.52	1.46	15225	4800
SHR-0112	1.125	1-1/8	28.6	1.059		.103		.033	1.036		.093		12.5	1.58	1.52	16240	5200
SHR-0118	1.181	-	30.0	1.111		.103		.035	1.087		.093		13.5	1.64	1.57	16748	5600
SHR-0118	1.188	1-3/16	30.2	1.111	+0.002	.103	+0.005	.038	1.087	-0.010	.093	±0.003	13.5	1.64	1.57	16748	5600
SHR-0125	1.250	1-1/4	31.7	1.174	-0.004	.103	-0.000	.038	1.150	-0.015	.093		14.9	1.70	1.63	17763	6500
SHR-0131	1.312	1-5/16	33.3	1.234		.103		.039	1.208		.093		16.0	1.77	1.69	18270	7400
SHR-0137	1.375	1-3/8	34.9	1.291		.103		.042	1.268		.093		17.8	1.83	1.75	19793	8200
SHR-0137	1.378	-	35.0	1.291		.103		.044	1.268		.093		17.8	1.83	1.75	19793	8200
SHR-0150	1.500	1-1/2	38.1	1.406		.120		.047	1.380		.109		27.0	2.08	1.98	24868	10000
SHR-0156	1.562	1-9/16	39.7	1.468		.120		.047	1.437		.109		31.0	2.14	2.05	26390	10400
SHR-0156	1.575	-	40.0	1.480		.120		.048	1.437		.109		31.0	2.15	2.06	26930	10400
SHR-0175	1.750	1-3/4	44.4	1.650	+0.003	.120		.050	1.608	+0.013	.109		33.4	2.34	2.25	29435	12400
SHR-0175	1.772	-	45.0	1.669	-0.004	.120		.052	1.608	-0.020	.109		33.4	2.37	2.27	29435	12400
SHR-0193	1.938	1-15/16	49.2	1.826		.139		.056	1.782		.125		48.0	2.58	2.48	37555	15300
SHR-0193	1.969	1-31/32	50.0	1.850		.139	+0.006	.060	1.782	-0.000	.125	±0.004	48.0	2.61	2.50	37555	15300
SHR-0200	2.000	2	50.8	1.880		.139		.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.

† 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 ring thickness will be a minimum of .0002" less than the listed groove width (w) minimum.

THIS TAMPER-PROOF RING CANNOT BE EASILY REMOVED ONCE INSTALLED.



RING NO.	HOUSING DIAMETER			GROOVE SIZE					RING SIZE & WEIGHT					CLEARANCE DIA.		† THRUST LD. (lbs.) Sqr. Corner Abutment	
	Dh DEC	Dh FRAC	Dh mm	DIAMETER		WIDTH		DEPTH	FREE DIAMETER		THICKNESS***		Weight Per 1000 Pcs.	L1	L2	Ring Safety factor of 4 Pr	Groove Safety factor of 2 Pg
				Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.					
SHM-0010	.101		-	.093		.024		.004	.090		.020		.036	.160	.152		30
SHM-0012	.125		1/8	.115		.024		.005	.112	±.002	.020		.050	.186	.176		40
SHM-0013	.134		-	.124	±.001	.024	+0.002	.005	.120		.020		.059	.197	.187	**	45
SHM-0015	.156		5/32	.144	.0015*	.029	-.000	.006	.140		.025		.122	.252	.240		65
SHM-0018	.188		3/16	.174		.029		.007	.168		.025		.179	.297	.283	SEE	90
SHM-0020	.203		13/64	.189		.029		.007	.180		.025		.167	.302	.288		100
SHM-0022	.219		7/32	.205		.039		.007	.200		.035	±.002	.334	.345	.331	NOTE	110
SHM-0025	.250		1/4	.232		.039		.009	.224		.035		.386	.384	.366	BELOW	160
SHM-0026	.266		17/64	.248	±.0015	.039	+0.003	.009	.240	±.003	.035		.467	.406	.388		170
SHM-0031	.312		5/16	.292	+0.002*	.039	-.000	.010	.284		.035		.626	.478	.458	**	220
SHM-0032	.328		21/64	.308		.039		.010	.300		.035		.688	.498	.480		230
SHM-0037	.375		3/8	.351		.046		.012	.340		.042		1.035	.567	.543		315

*F.I.M. (Full indicator movement)-maximum allowable deviation of concentricity between groove and shaft.

† 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 dept.

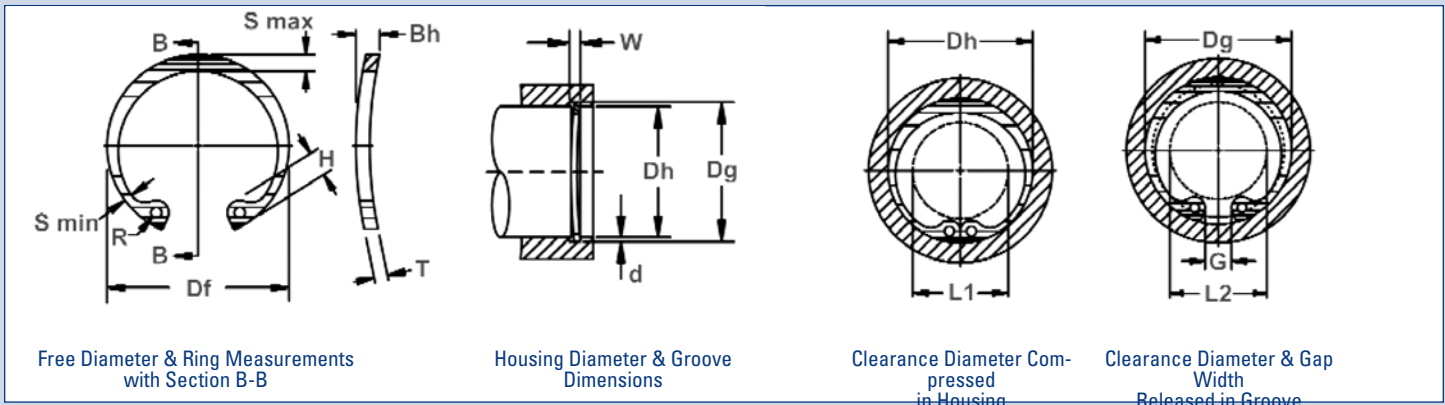
***For plated rings, add .002" To the listed maximum thickness. Maximum ring thickness will be a minimum of .0002"

Larger sizes may be available upon request.

Less than the listed groove width (w) minimum.

**Call for information:1-800-557-6867

BOWED RINGS EXERT A FORCE ON THE RETAINED PART, COMPENSATING FOR ACCUMULATED TOLERANCES.



Free Diameter & Ring Measurements with Section B-B

Housing Diameter & Groove Dimensions

Clearance Diameter Compressed in Housing

Clearance Diameter & Gap Width Released in Groove

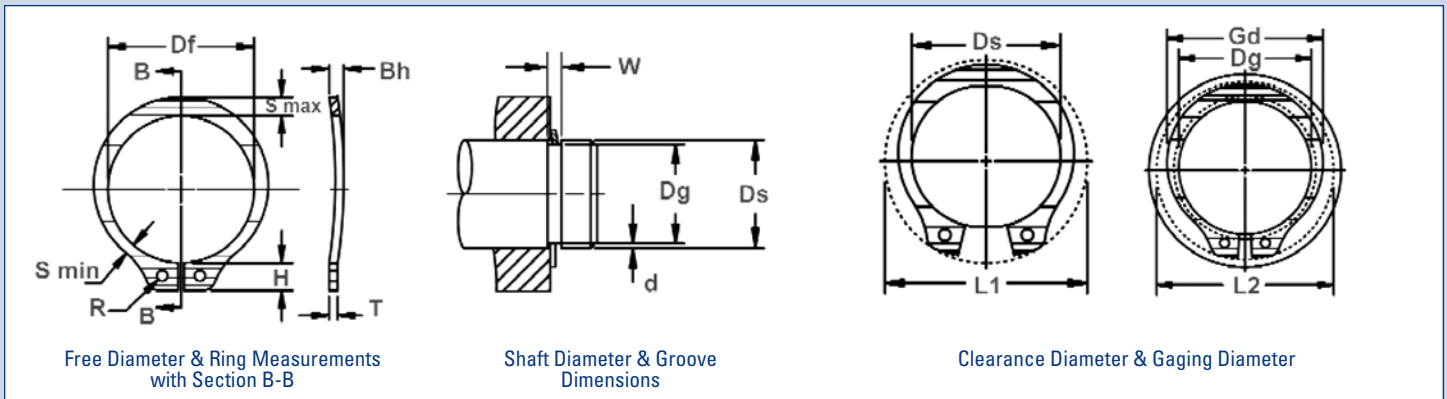
RING NO.	HOUSING DIAMETER			GROOVE SIZE					RING SIZE & WEIGHT					CLEARANCE DIA.		↑ THRUST LD. (lbs.) Sqr. Corner Abutment	
				DIAMETER		WIDTH		DEPTH	FREE DIAMETER		THICKNESS***		Weight Per 1000 Pcs.				
	Dh DEC	Dh FRAC	Dh mm	Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	lbs.	L1	L2	Pr	Pg
BHO-0025	.250	1/4	6.4	.268	±.001	.030	+0.002	.009	.280		.015		.036		.08	426	190
BHO-0031	.312	5/16	7.9	.330	.0015*	.030	-.000	.009	.346		.015		.036		.11	538	240
BHO-0037	.375	3/8	9.5	.397		.040		.011	.415		.025		.047		.25	1066	350
BHO-0043	.438	7/16	11.1	.461	±.002	.040		.012	.482		.025		.047	±.006	.37	1238	440
BHO-0045	.453	29/64	11.5	.477	.002*	.040		.012	.498		.025		.047		.43	1299	460
BHO-0050	.500	1/2	12.7	.530		.055		.015	.548		.035		.063		.70	2010	510
BHO-0051	.512	-	13.0	.542		.055		.015	.560	±.010	.035		.063		.77	2060	520
BHO-0056	.562	9/16	14.3	.596	±.002	.055		.017	.620		.035		.063	±.007	.86	2253	710
BHO-0062	.625	5/8	15.9	.665	.004*	.055		.020	.694		.035		.063		1.0	2507	1050
BHO-0068	.688	11/16	17.5	.732		.055		.022	.763		.035		.063		1.2	2741	1280
BHO-0075	.750	3/4	19.0	.796		.055		.023	.831		.035		.063		1.3	3045	1460
BHO-0077	.777	-	19.7	.825		.062		.024	.859		.042		.073		1.7	4618	1580
BHO-0081	.812	13/16	20.6	.862		.062		.025	.901		.042		.073		1.9	4872	1710
BHO-0086	.866	-	22.0	.920		.062		.027	.961		.042		.073		2.0	5177	1980
BHO-0087	.875	7/8	22.2	.931	±.003	.062		.028	.971		.042		.073	±.008	2.1	5227	2080
BHO-0090	.901	-	22.9	.959	.004*	.062		.029	1.000	±.015	.042	±.002	.073		2.2	5430	2200
BHO-0093	.938	15/16	23.8	1.000		.062	+0.003	.031	1.041		.042		.073		2.4	5684	2450
BHO-0100	1.000	1	25.4	1.066		.062	-.000	.033	1.111		.042		.073		2.7	6039	2800
BHO-0102	1.023	-	26.0	1.091		.062		.034	1.136		.042		.073		2.8	6141	3000
BHO-0106	1.062	1-1/16	27.0	1.130		.070		.034	1.180		.050		.085		3.7	7562	3050
BHO-0112	1.125	1-1/8	28.6	1.197		.070		.036	1.249		.050		.085		4.0	8019	3400
BHO-0118	1.181	-	30.0	1.255		.070		.037	1.319		.050		.085		4.3	8526	3700
BHO-0118	1.188	1-3/16	30.2	1.262		.070		.037	1.319		.050		.085		4.3	8526	3700
BHO-0125	1.250	1-1/4	31.7	1.330		.070		.040	1.388		.050		.085		4.8	8932	4250
BHO-0125	1.259	-	32.0	1.339	±.004	.070		.040	1.388	±.025	.050		.085	±.012	4.8	8932	4250
BHO-0131	1.312	1-5/16	33.3	1.396	.005*	.070		.042	1.456		.050		.085		5.0	9440	4700
BHO-0137	1.375	1-3/8	34.9	1.461		.070		.043	1.526		.050		.085		5.1	9846	5050
BHO-0137	1.378	-	35.0	1.464		.070		.043	1.526		.050		.085		5.1	9846	5050
BHO-0143	1.438	1-7/16	36.5	1.528		.070		.045	1.596		.050		.085		5.8	10353	5500
BHO-0145	1.456	-	37.0	1.548		.070		.046	1.616		.050		.085		6.4	10455	5700
BHO-0150	1.500	1-1/2	38.1	1.594		.070		.047	1.660		.050		.085		6.5	10708	6000
BHO-0156	1.562	1-9/16	39.7	1.658		.100		.048	1.734		.062		.115		8.9	13906	6350
BHO-0156	1.575	-	40.0	1.671	±.005	.100	+0.005	.048	1.734	±.035	.062	±.003	.115	±.015	8.9	13906	6350
BHO-0162	1.625	1-5/8	41.3	1.725	.005*	.100	-.000	.050	1.804	-.025	.062		.115		10.0	14413	6900
BHO-0175	1.750	1-3/4	44.4	1.858		.100		.054	1.942		.062		.115		10.3	15580	8050

*F.I.M. (Full indicator movement)-maximum allowable deviation of concentricity between groove and housing.

↑ 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 dept.

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

ONCE SNAPPED INTO THE GROOVE, BOWED RINGS EXERT A FORCE OR A "PRELOAD" ON THE RETAINED PARTS FOR THE RANGE SPECIFIED.



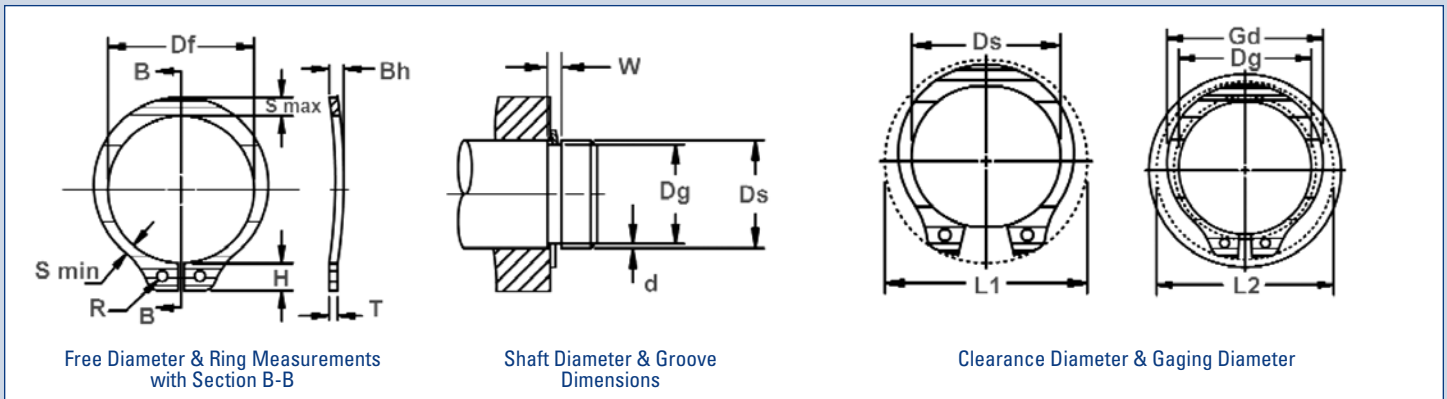
RING NO.	SHAFT DIAMETER			GROOVE SIZE					RING SIZE & WEIGHT						CLEAR. DIA.		↑ THRUST LD. (lbs.) Sqr. Corner Abutment			
	Ds DEC	Ds FRACT	Ds mm	Diameter		Width		Depth	Free Diameter			Thickness***		Bow Height		lbs.	L1	L2	Pr	Pg
				Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	Bh	Tol.						
BSH-0025	.250	1/4	6.4	.230	±.0015.0015*	.040		.010	.225	+0.002-.004	.025		.047		.21	.45	.43	599	175	
BSH-0027	.276	-	7.0	.255		.040		.010	.250		.025		.047		.23	.48	.46	660	195	
BSH-0028	.281	9/32	7.1	.261		.040		.010	.256		.025		.047		.24	.49	.47	670	200	
BSH-0031	.312	5/16	7.9	.290		.040		.011	.281		.025		.047		.27	.54	.52	751	240	
BSH-0034	.344	11/32	8.7	.321		.040		.011	.309		.025		.047		.31	.57	.55	812	265	
BSH-0035	.354	-	9.0	.330	±.002	.040		.012	.320	+0.002	.025		.047	±.006	.35	.59	.57	832	300	
BSH-0037	.375	3/8	9.5	.352	.002*	.040		.012	.338	-0.005	.025		.047		.39	.61	.59	883	325	
BSH-0039	.394	-	10.0	.369		.040		.012	.354		.025		.047		.42	.62	.60	954	335	
BSH-0040	.406	13/32	10.3	.382		.040		.012	.366		.025		.047		.43	.63	.61	964	350	
BSH-0043	.438	7/16	11.1	.412		.040		.013	.395		.025		.047		.50	.66	.64	1035	400	
BSH-0046	.469	15/32	11.9	.443		.040	+0.003	.013	.428	-0.000	.025	±.002	.047		.54	.68	.66	1117	450	
BSH-0050	.500	1/2	12.7	.468		.055		.016	.461		.035		.063		.91	.77	.74	1675	550	
BSH-0055	.551	-	14.0	.519	±.002	.055		.016	.509		.035		.063		.90	.81	.78	1827	600	
BSH-0056	.562	9/16	14.3	.530	.004*	.055		.016	.521		.035		.063		1.1	.82	.79	1878	650	
BSH-0059	.594	19/32	15.1	.559		.055		.017	.550		.035		.063	±.007	1.2	.86	.83	1979	750	
BSH-0062	.625	5/8	15.9	.588		.055		.018	.579		.035		.063		1.3	.90	.87	2091	800	
BSH-0066	.669	-	17.0	.629	±.003	.055		.020	.621	+0.005	.035		.063		1.4	.93	.89	2233	950	
BSH-0066	.672	43/64	17.1	.631	.004*	.055		.020	.621	-0.010	.035		.063		1.4	.93	.89	2233	950	
BSH-0068	.688	11/16	17.5	.646		.062		.021	.635		.042		.073		1.8	1.01	.97	3451	1000	
BSH-0075	.750	3/4	19.0	.704		.062		.023	.693		.042		.073	±.008	2.1	1.09	1.05	3756	1200	
BSH-0078	.781	25/32	19.8	.733		.062		.024	.722		.042		.073		2.2	1.12	1.08	3959	1300	

*F.I.M. (Full indicator movement)-maximum allowable deviation of concentricity between groove and shaft.

↑ 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 dept.

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

ONCE SNAPPED INTO THE GROOVE, BOWED RINGS EXERT A FORCE OR A "PRELOAD" ON THE RETAINED PARTS FOR THE RANGE SPECIFIED.



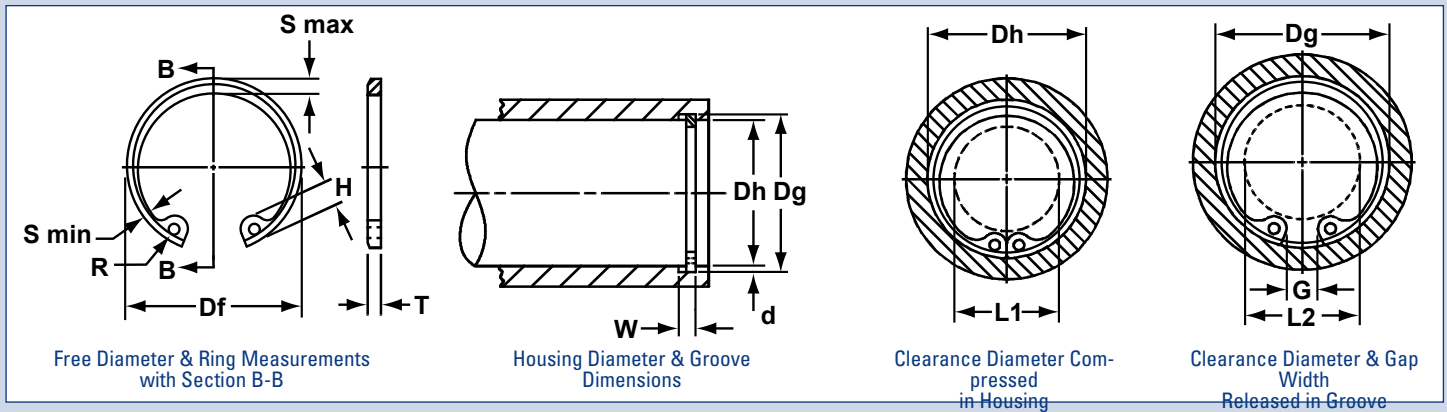
RING NO.	SHAFT DIAMETER			GROOVE SIZE					RING SIZE & WEIGHT						CLEAR. DIA.		↑ THRUST LD. (lbs.) Sqr. Corner Abutment		
	Ds DEC	Ds FRACT	Ds mm	Diameter		Width		Depth	Free Diameter		Thickness***		Bow Height		Wght. Per 1000 Pcs.	L1	L2	RING Safety Factor of 4	Pg
				Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	Bh	Tol.					
BSH-0081	.812	13/16	20.6	.762	±.003 .004*	.062	+.003 -.000	.025	.751	+.010 -.015	.042	±.002	.073	±.008	2.5	1.15	1.10	4060	1450
BSH-0087	.875	7/8	22.2	.821		.062		.027	.810		.042		.073		2.8	1.21	1.16	4365	1650
BSH-0093	.938	15/16	23.8	.882		.062		.028	.867		.042		.073		3.1	1.34	1.29	4720	1850
BSH-0098	.984	63/64	25.0	.926		.062		.029	.910		.042		.073		3.5	1.39	1.34	4923	2000
BSH-0100	1.000	1	25.4	.940	±.004 .005*	.062	+.003 -.000	.030	.925	+.010 -.015	.042	±.002	.073	±.012	3.6	1.41	1.35	5024	2100
BSH-0102	1.023	-	26.0	.961		.062		.031	.946		.042		.073		3.9	1.43	1.37	5126	2250
BSH-0106	1.062	1-1/16	27.0	.998		.070		.032	.982		.050		.085		4.8	1.50	1.44	6293	2400
BSH-0112	1.125	1-1/8	28.6	1.059		.070		.033	1.041		.050		.085		5.1	1.55	1.49	6699	2600
BSH-0118	1.188	1-3/16	30.2	1.118		.070		.035	1.098		.050		.085		5.6	1.61	1.54	7105	2950
BSH-0125	1.250	1-1/4	31.7	1.176		.070		.037	1.156		.050		.085		5.9	1.69	1.62	7460	3250
BSH-0131	1.312	1-5/16	33.3	1.232		.070		.040	1.214		.050		.085		6.8	1.75	1.67	7866	3700
BSH-0137	1.375	1-3/8	34.9	1.291		.070		.042	1.272		.050		.085		7.2	1.80	1.72	8222	4100
BSH-0143	1.438	1-7/16	36.5	1.350		.070		.044	1.333		.050		.085		8.1	1.87	1.79	8628	4500
BSH-0150	1.500	1-1/2	38.1	1.406		.070		.047	1.387		.050		.085		9.0	1.99	1.90	8932	5000
BSH-0162	1.625	1-5/8	41.3	1.529	±.005 .005*	.096	+.005 -.000	.048	1.503	+.013 -.020	.062	±.003	.115	±.015	13.2	2.17	2.08	12028	5500
BSH-0175	1.750	1-3/4	44.4	1.650		.096		.050	1.618		.062		.115		15.3	2.31	2.21	12992	6200

*F.I.M. (Full indicator movement)-maximum allowable deviation of concentricity between groove and shaft.

† 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 dept.

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

A 15° BEVELED EDGE ALONG WITH A COMPLEMENTARY GROOVE ANGLE COMBINE TO ELIMINATE END PLAY WHEN THE RING IS INSTALLED.

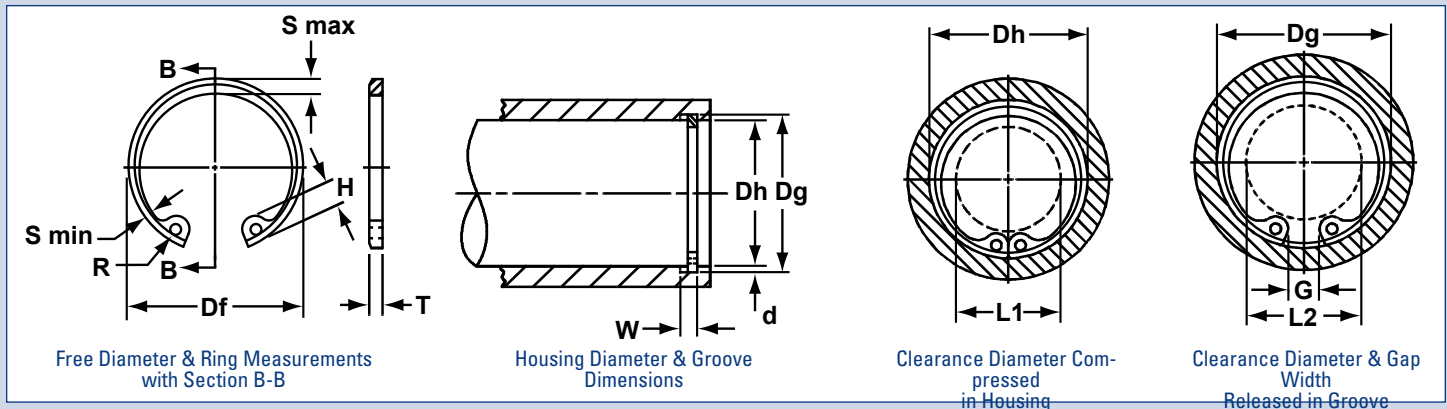


RING NO.	SHAFT DIAMETER			GROOVE SIZE					RING SIZE & WEIGHT						CLEARANCE DIA.			
	Dh DEC	Dh FRACT	Dh mm	DIAMETER		WIDTH		DEPTH	FREE DIAMETER			THICKNESS***		THICKNESS BEVELED END		Weight Per 1000 Pcs.	L1	L2
				Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	U	Tol.				
VHO-0100	1.000	1	25.4	1.076	+.003	.036		.038	1.111	+.015	.042		.033		2.7	.665	.70	
VHO-0102	1.023	-	26.0	1.101	-.000	.036		.039	1.136	-.010	.042		.033		2.8	.69	.725	
VHO-0106	1.062	1-1/16	27.0	1.138	.004*	.044		.038	1.180		.050		.041		3.7	.685	.72	
VHO-0112	1.125	1-1/8	28.6	1.205		.043		.040	1.249		.050		.040		4.0	.745	.78	
VHO-0118	1.181	-	30.0	1.265		.043		.042	1.319		.050		.040		4.3	.66	.69	
VHO-0118	1.188	1-3/16	30.2	1.272		.043		.042	1.319		.050		.040		4.3	.67	.70	
VHO-0125	1.250	1-1/4	31.7	1.342		.042		.046	1.388		.050	±.002	.039		4.8	.875	.92	
VHO-0125	1.259	-	32.0	1.351	+.004	.042		.046	1.388	+.025	.050		.039		4.8	.885	.93	
VHO-0131	1.312	1-5/16	33.3	1.408	-.000	.042		.048	1.456	-.020	.050		.039		5.0	.93	.97	
VHO-0137	1.375	1-3/8	34.9	1.475	.005*	.041		.050	1.526		.050		.038		5.1	.99	1.03	
VHO-0137	1.378	-	35.0	1.478		.041		.050	1.526		.050		.038		5.1	.99	1.03	
VHO-0143	1.438	1-7/16	36.5	1.542		.040	+.005	.052	1.596	-.000	.050		.037		5.8	1.06	1.11	
VHO-0145	1.456	-	37.0	1.562		.040	-.000	.053	1.616		.050		.037	±.001	6.4	1.08	1.13	
VHO-0150	1.500	1-1/2	38.1	1.604		.040		.052	1.660		.050		.037		6.5	1.12	1.17	
VHO-0156	1.562	1-9/16	39.7	1.674		.052		.056	1.734		.062		.048		8.9	1.10	1.15	
VHO-0156	1.575	-	40.0	1.687		.052		.056	1.734		.062		.048		8.9	1.11	1.16	
VHO-0162	1.625	1-5/8	41.3	1.743		.051		.059	1.804		.062		.047		10.0	1.16	1.22	
VHO-0165	1.653	-	42.0	1.773		.051		.060	1.835		.062		.047		10.4	1.17	1.22	
VHO-0168	1.688	1-11/16	42.9	1.810	+.005	.050		.061	1.874	+.035	.062		.046		10.8	1.21	1.27	
VHO-0175	1.750	1-3/4	44.4	1.878	-.000	.050		.064	1.942	-.025	.062		.046		10.3	1.27	1.32	
VHO-0181	1.812	1-13/16	46.0	1.944	.005*	.050		.066	2.012		.062		.046		11.5	1.34	1.40	
VHO-0185	1.850	-	47.0	1.984		.050		.067	2.054		.062		.046		12.8	1.36	1.43	
VHO-0187	1.875	1-7/8	47.6	2.011		.050		.068	2.054		.062	±.003	.046		12.8	1.38	1.45	
VHO-0193	1.938	1-15/16	49.2	2.082		.049		.072	2.141		.062		.045		13.3	1.46	1.53	
VHO-0200	2.000	2	50.8	2.144		.048		.072	2.210		.062		.044		14.0	1.52	1.59	
VHO-0206	2.047	-	52.0	2.195		.065		.074	2.280		.078		.060		18.0	1.52	1.59	
VHO-0206	2.062	2-1/16	52.4	2.210	+.006	.065	+.007	.074	2.280	-.030	.078		.060	±.0015	18.0	1.54	1.61	
VHO-0212	2.125	2-1/8	54.0	2.279	-.000	.065	-.000	.077	2.350	+.040	.078		.060		19.4	1.60	1.67	
VHO-0218	2.165	-	55.0	2.327	.006*	.064		.081	2.415		.078		.059		19.6	1.63	1.71	
VHO-0218	2.188	2-3/16	55.6	2.350		.064		.081	2.415		.078		.059		19.6	1.66	1.74	

* F.I.M. (Full indicator movement)- maximum allowable deviation of concentricity between groove and housing.

***For plated rings add .002" To the listed maximum thickness (t) and beveled end thickness (u) values.

A 15° BEVELED EDGE ALONG WITH A COMPLEMENTARY GROOVE ANGLE COMBINE TO ELIMINATE END PLAY WHEN THE RING IS INSTALLED.

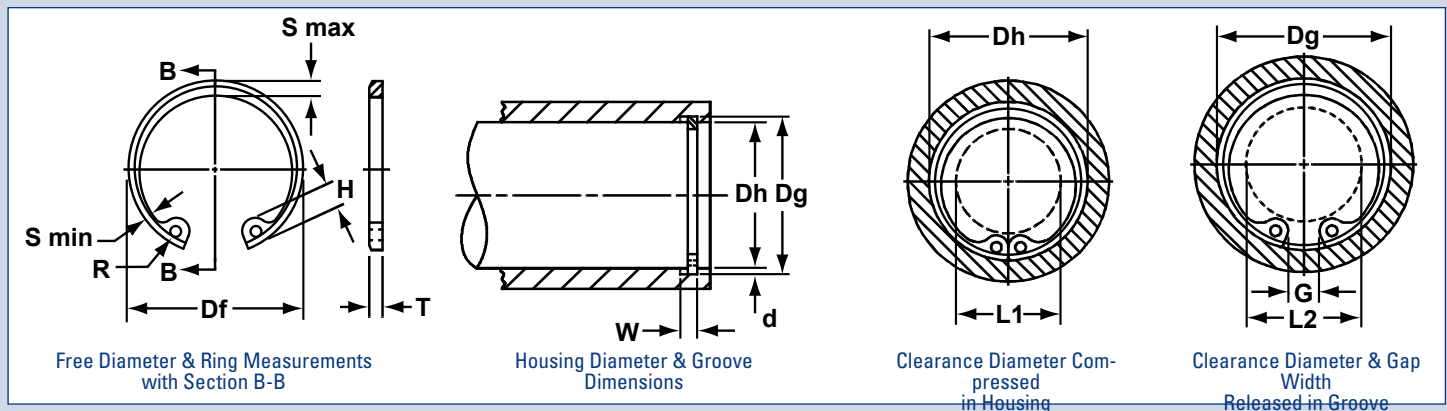


RING NO.	SHAFT DIAMETER			GROOVE SIZE					RING SIZE & WEIGHT						CLEARANCE DIA.			
	Dh DEC	Dh FRACT	Dh mm	DIAMETER		WIDTH		DEPTH	FREE DIAMETER			THICKNESS***		THICKNESS BEVELED END		Weight Per 1000 Pcs.	L1	L2
				Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	U	Tol.				
VHO-225	2.250	2-1/4	57.1	2.420		.064		.085	2.490		.078		.059		21.8	1.67	1.75	
VHO-231	2.312	2-5/16	58.7	2.484		.063		.086	2.560		.078		.058		22.6	1.73	1.80	
VHO-237	2.375	2-3/8	60.3	2.552		.063		.089	2.630		.078		.058		23.2	1.79	1.87	
VHO-244	2.440	2-7/16	62.0	2.618		.062		.089	2.702		.078		.057	±.0015	25.4	1.86	1.94	
VHO-250	2.500	2-1/2	63.5	2.684		.062		.092	2.775		.078		.057		25.5	1.91	2.00	
VHO-250	2.531	2-17/32	64.3	2.717		.062		.093	2.775		.078		.057		25.5	1.94	2.03	
VHO-256	2.562	2-9/16	65.1	2.750		.078		.094	2.844		.093		.072		34.0	1.93	2.02	
VHO-262	2.625	2-5/8	66.7	2.820		.077	+0.007	.097	2.910	+0.040	.093		.071		34.5	2.02	2.11	
VHO-268	2.677	-	68.0	2.876		.077	-0.000	.099	2.980	-0.030	.093		.071		35.0	2.05	2.15	
VHO-268	2.688	2-11/16	68.3	2.887		.077		.099	2.980		.093		.071		35.0	2.06	2.16	
VHO-275	2.750	2-3/4	69.8	2.955		.076		.102	3.050		.093		.070	±.002	35.5	2.12	2.21	
VHO-281	2.812	2-13/16	71.4	3.020		.076		.104	3.121		.093		.070		36.0	2.18	2.27	
VHO-281	2.835	-	72.0	3.043		.076		.104	3.121		.093		.070		36.0	2.21	2.31	
VHO-287	2.875	2-7/8	73.0	3.085		.076		.105	3.191		.093		.070		41.0	2.24	2.34	
VHO-295	2.953	-	75.0	3.178	+0.006	.074	-0.000	.112	3.325		.093	±.003	.068		42.5	2.32	2.43	
VHO-300	3.000	3	76.2	3.225	.006*	.074		.112	3.325		.093		.068		42.5	2.37	2.48	
VHO-306	3.062	3-1/16	77.8	3.290		.089		.114	3.418		.109		.082		53.0	2.41	2.51	
VHO-312	3.125	3-1/8	79.4	3.355		.089		.115	3.488		.109		.082		56.0	2.47	2.58	
VHO-325	3.250	3-1/4	82.5	3.489		.089		.119	3.623		.109		.082		60.0	2.54	2.65	
VHO-334	3.346	3-11/32	85.0	3.591		.089		.122	3.734		.109		.082		65.0	2.63	2.74	
VHO-347	3.469	3-15/32	88.1	3.726		.089		.128	3.857	±.055	.109		.082		69.0	2.76	2.88	
VHO-350	3.500	3-1/2	88.9	3.760		.089		.130	3.890		.109		.082		71.0	2.79	2.91	
VHO-354	3.543	-	90.0	3.806		.089	+0.008	.132	3.936	-0.000	.109		.082	±.0025	72.0	2.83	2.95	
VHO-354	3.562	3-9/16	90.5	3.830		.089		.134	3.936		.109		.082		72.0	2.85	2.97	
VHO-362	3.625	3-5/8	92.1	3.900		.089		.137	4.024		.109		.082		73.0	2.91	3.03	
VHO-375	3.740	-	95.0	4.030		.089		.145	4.157		.109		.082		78.0	3.02	3.15	
VHO-375	3.750	3-3/4	95.2	4.040		.089		.145	4.157		.109		.082		78.0	3.03	3.17	
VHO-387	3.875	3-7/8	98.4	4.171		.089		.148	4.291	±.065	.109		.082		87.0	3.11	3.25	
VHO-393	3.938	3-15/16	100.0	4.236		.089		.149	4.358		.109		.082		88.0	3.17	3.31	
VHO-400	4.000	4	101.6	4.302		.089		.151	4.424		.109		.082		93.0	3.23	3.37	

* F.I.M. (Full indicator movement)- maximum allowable deviation of concentricity between groove and housing.

***For plated rings add .002" To the listed maximum thickness (t) and beveled end thickness (u) values.

A 15° BEVELED EDGE ALONG WITH A COMPLEMENTARY GROOVE ANGLE COMBINE TO ELIMINATE END PLAY WHEN THE RING IS INSTALLED.

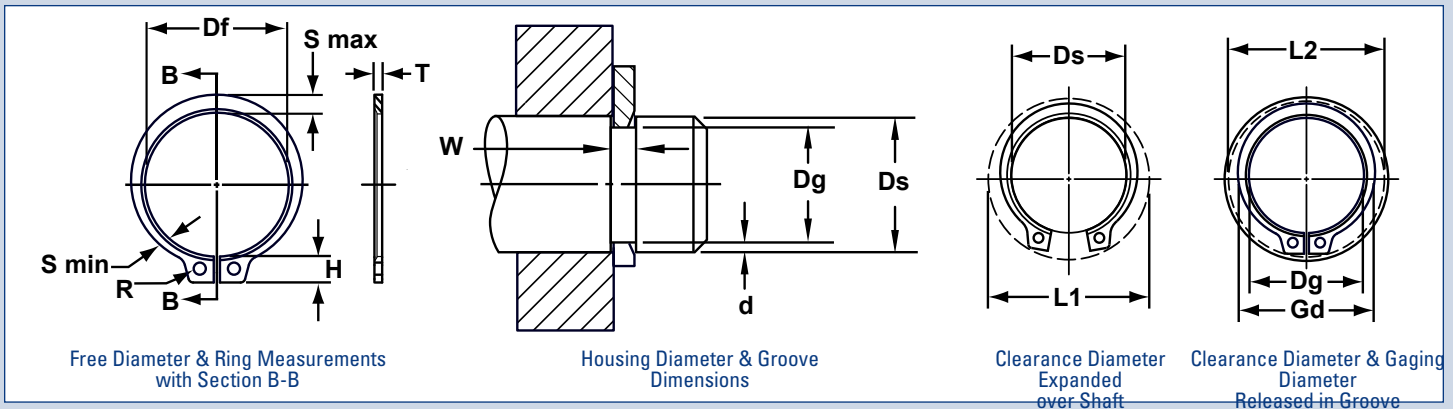


RING NO.	SHAFT DIAMETER			GROOVE SIZE					RING SIZE & WEIGHT					CLEARANCE DIA.				
	Dh DEC	Dh FRACT	Dh mm	DIAMETER		WIDTH		DEPTH	FREE DIAMETER			THICKNESS***		THICKNESS BEVELED END		Weight Per 1000 Pcs.	L1	L2
				Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	U	Tol.				
VHO-0412	4.125	4-1/8	104.8	4.433		.089		.154	4.558		.109		.082		97.0	3.36	3.51	
VHO-0425	4.250	4-1/4	108.0	4.562		.089		.156	4.691		.109		.082		101.0	3.48	3.63	
VHO-0433	4.331	-	110.0	4.647		.089		.158	4.756		.109		.082		105.0	3.50	3.65	
VHO-0450	4.500	4-1/2	114.3	4.824		.089		.162	4.940		.109		.082		111.00	3.66	3.81	
VHO-0462	4.625	4-5/8	117.5	4.955		.089		.165	5.076		.109		.082		117.00	3.79	3.95	
VHO-0475	4.724	-	120.0	5.060		.089		.168	5.213		.109		.082		124.0	3.88	4.04	
VHO-0475	4.750	4-3/4	120.6	5.086		.089		.168	5.213	±.065	.109		.082		124.0	3.90	4.06	
VHO-0500	5.000	5	127.0	5.346		.089		.173	5.485		.109		.082		136.0	4.08	4.25	
VHO-0525	5.250	5-1/4	133.3	5.612		.102		.181	5.770		.125		.095		174.0	4.35	4.52	
VHO-0537	5.375	5-3/8	136.5	5.739		.102		.182	5.910		.125		.095		179.0	4.45	4.62	
VHO-0550	5.500	5-1/2	139.7	5.864		.102		.182	6.066		.125	±.004	.095		183.0	4.57	4.74	
VHO-0575	5.750	5-3/4	146.0	6.120		.102		.185	6.336		.125		.095		192.0	4.82	5.00	
VHO-0600	6.000	6	152.4	6.374		.102		.187	6.620		.125		.095		201.0	5.07	5.25	
VHO-0625	6.250	6-1/4	158.7	6.642		.129		.196	6.895		.156		.121		266.0	5.24	5.43	
VHO-0650	6.500	6-1/2	165.1	6.908		.129		.204	7.170		.156		.121		281.0	5.49	5.68	
VHO-0662	6.620	6-5/8	168.3	7.042		.129		.208	7.308	±.090	.156		.121		305.0	5.60	5.80	
VHO-0675	6.750	6-3/4	171.4	7.174		.128		.212	7.445		.156		.120		325.0	5.68	5.88	
VHO-0700	7.000	7	177.8	7.441		.128		.220	7.720		.156		.120		344.0	5.91	6.12	
VHO-0725	7.250	7-1/4	184.1	7.708		.159		.229	7.995		.187		.150		428.0	6.11	6.33	
VHO-0750	7.500	7-1/2	190.5	7.974		.159		.237	8.270		.187		.150		485.0	6.36	6.59	
VHO-0775	7.750	7-3/4	196.8	8.240		.159		.245	8.545		.187		.150		520.0	6.58	6.82	
VHO-0800	8.000	8	203.2	8.507		.155		.253	8.820		.187	±.005	.146		555.0	6.83	7.07	
VHO-0825	8.250	8-1/4	209.5	8.773		.155		.261	9.095		.187		.146		603.0	7.04	7.29	
VHO-0850	8.500	8-1/2	215.9	9.040		.151		.270	9.285		.187		.142		634.0	7.29	7.55	
VHO-0875	8.750	8-3/4	222.2	9.307		.151		.278	9.558	±.090	.187		.142		653.0	7.38	7.65	
VHO-0900	9.000	9	228.6	9.573		.151		.286	9.830		.187		.142		732.0	7.63	7.91	
VHO-0925	9.250	9-1/4	235.0	9.838		.151		.294	10.102		.187		.142		767.0	7.88	8.16	
VHO-0950	9.500	9-1/2	241.3	10.106		.147		.303	10.375		.187		.138		803.0	7.98	8.27	
VHO-0975	9.750	9-3/4	247.7	10.372		.147		.311	10.648		.187		.138		833.0	8.23	8.52	
VHO-1000	10.000	10	254.0	10.639		.147		.319	10.920		.187		.138		863.0	8.48	8.78	

* F.I.M. (Full indicator movement)- maximum allowable deviation of concentricity between groove and housing.

***For plated rings add .002" To the listed maximum thickness (t) and beveled end thickness (u) values.

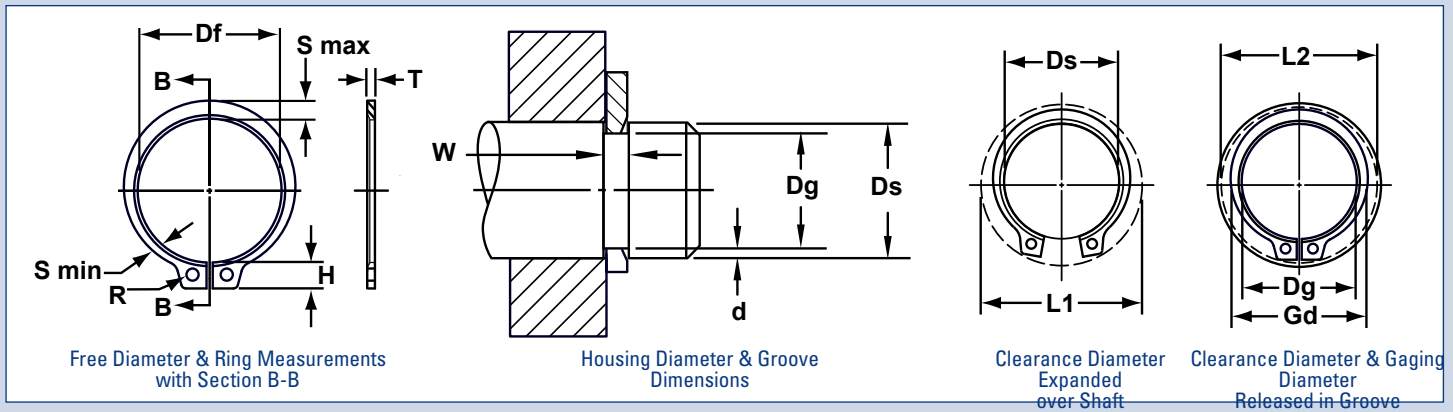
A 15° BEVELED EDGE ALONG WITH A COMPLIMENTARY GROOVE ANGLE COMBINE TO ELIMINATE END PLAY WHEN THE RING IS INSTALLED.



RING NO.	SHAFT DIAMETER			GROOVE SIZE					RING SIZE & WEIGHT						CLEARANCE DIA.			
	Ds DEC	Ds FRACT	Ds mm	DIAMETER		WIDTH		DEPTH	FREE DIAMETER			THICKNESS***		THICKNESS BEVELED END		Weight Per 1000 Pcs.	L1	L2
				Dg	Tol.	W	Tol.		d	Df	Tol.	T	Tol.	U	Tol.			
VSH-0100	1.000	1	25.4	.930	+0.000	.037		.035	.925	+0.005	.042		.034		3.6	1.41	1.38	
VSH-0102	1.023	-	26.0	.951	-0.003	.036		.036	.946	-0.010	.042		.033		3.9	1.43	1.40	
VSH-0106	1.062	1-1/16	27.0	.992		.044		.035	.982		.050		.041		4.8	1.50	1.47	
VSH-0112	1.125	1-1/8	28.6	1.051		.044		.037	1.041		.050		.041		5.1	1.55	1.52	
VSH-0119	1.188	1-3/16	30.2	1.108		.044		.040	1.098		.050		.041		5.6	1.61	1.57	
VSH-0125	1.250	1-1/4	31.7	1.166	+0.000	.043		.042	1.156	+0.010	.050	±.002	.040		5.9	1.69	1.65	
VSH-0131	1.312	1-5/16	33.3	1.224	-0.004	.042		.044	1.214	-0.015	.050		.039		6.8	1.75	1.71	
VSH-0137	1.375	1-3/8	34.9	1.282		.042		.046	1.272		.050		.039		7.2	1.80	1.76	
VSH-0143	1.438	1-7/16	36.5	1.343		.042		.047	1.333		.050		.039		8.1	1.87	1.83	
VSH-0150	1.500	1-1/2	38.1	1.397		.041	+0.005	.051	1.387		.050		.038	±.001	9.0	1.99	1.95	
VSH-0157	1.562	1-9/16	39.7	1.459		.053	-0.000	.051	1.446		.062		.049		12.4	2.10	2.05	
VSH-0162	1.625	1-5/8	41.3	1.516		.053		.054	1.503		.062		.049		13.2	2.17	2.13	
VSH-0168	1.688	1-11/16	42.9	1.573		.052		.057	1.560		.062		.048		14.8	2.24	2.20	
VSH-0175	1.750	1-3/4	44.4	1.631	+0.000	.052		.059	1.618		.062		.048		15.3	2.31	2.26	
VSH-0177	1.772	-	45.0	1.650	-0.005	.052		.061	1.637	+0.013	.062		.048		15.4	2.33	2.28	
VSH-0181	1.812	1-13/16	46.0	1.688		.052		.062	1.675	-0.020	.062		.048		16.2	2.38	2.33	
VSH-0187	1.875	1-7/8	47.6	1.748		.052		.063	1.735		.062		.048		17.3	2.44	2.39	
VSH-0196	1.969	1-31/32	50.0	1.832		.051		.068	1.819		.062		.047		18.0	2.54	3.09	
VSH-0200	2.000	2	50.8	1.863		.051		.068	1.850		.062		.047		19.0	2.57	3.10	
VSH-0206	2.062	2-1/16	52.4	1.921		.067		.070	1.906		.078		.062		25.0	2.68	3.22	
VSH-0212	2.125	2-1/8	54.0	1.979		.067		.073	1.964		.078		.062		26.1	2.78	3.29	
VSH-0215	2.156	2-5/32	54.8	2.008		.067		.074	1.993		.078		.062		26.3	2.81	3.40	
VSH-0225	2.250	2-1/4	57.1	2.096		.066		.077	2.081	+0.015	.078	±.003	.061		27.7	2.90	3.51	
VSH-0231	2.312	2-5/16	58.7	2.154		.065		.079	2.139	-0.025	.078		.060		28.0	2.97	3.58	
VSH-0237	2.375	2-3/8	60.3	2.212		.065		.081	2.197		.078		.060	±.0015	29.2	3.06	3.50	
VSH-0243	2.438	2-7/16	61.9	2.270		.065		.084	2.255		.078		.060		29.5	3.07	3.64	
VSH-0250	2.500	2-1/2	63.5	2.328	+0.000	.064	+0.007	.086	2.313		.078		.059		29.7	3.17	3.09	
VSH-0255	2.559	-	65.0	2.397	-0.006	.064	-0.000	.081	2.377		.078		.059		33.9	3.18	3.10	
VSH-0262	2.625	2-5/8	66.7	2.448		.064		.088	2.428		.078		.059		35.0	3.30	3.22	
VSH-0268	2.688	2-11/16	68.3	2.505		.064		.091	2.485		.078		.059		36.0	3.37	3.29	
VSH-0275	2.750	2-3/4	69.8	2.563		.079		.093	2.543	+0.020	.093		.073		47.0	3.48	3.40	
VSH-0287	2.875	2-7/8	73.0	2.679		.078		.098	2.659	-0.030	.093		.072		48.5	3.60	3.51	
VSH-0293	2.938	2-15/16	74.6	2.737		.078		.100	2.717		.093		.072	±.002	50.0	3.67	3.58	
VSH-0300	3.000	3	76.2	2.795		.077		.102	2.775		.093		.071		52.0	3.60	3.50	
VSH-0306	3.062	3-1/16	77.8	2.852		.077		.105	2.832		.093		.071		47.0	3.74	3.64	

*** For plated rings, add .002" To the listed maximum thickness (t) and beveled end thickness (u) values.
 * F.I.M. (Full indicator movement)-maximum allowable deviation of concentricity between groove and shaft.
 For hardness specifications, see end of this section.

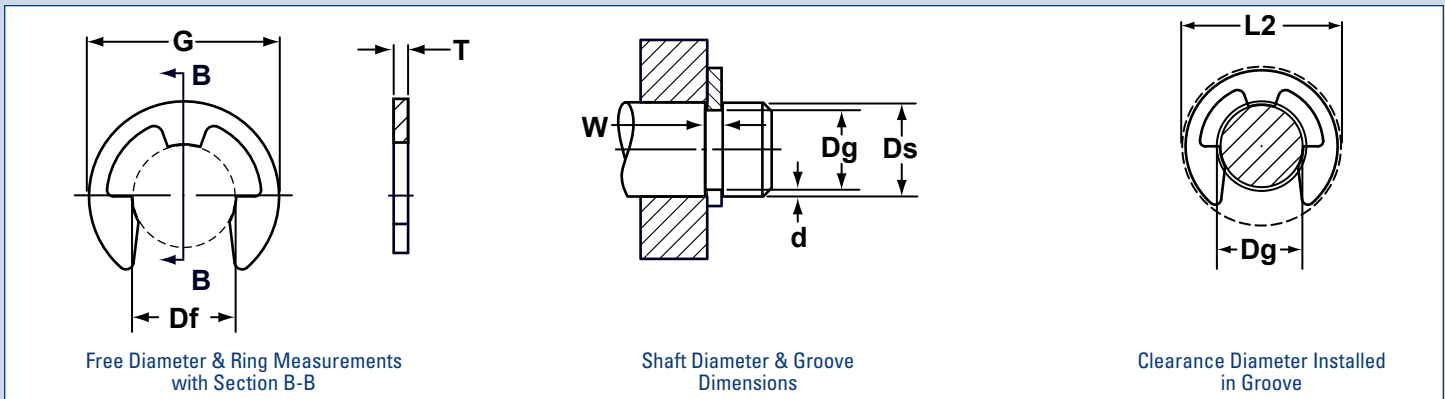
A 15° BEVELED EDGE ALONG WITH A COMPLIMENTARY GROOVE ANGLE COMBINE TO ELIMINATE END PLAY WHEN THE RING IS INSTALLED.



RING NO.	SHAFT DIAMETER			GROOVE SIZE					RING SIZE & WEIGHT						CLEARANCE DIA.				
	Ds DEC	Ds FRACT	Ds mm	DIAMETER		WIDTH		DEPTH	FREE DIAMETER			THICKNESS***		THICKNESS BEVELED END		Weight Per 1000 Pcs.	L1	L2	
				Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	U	Tol.					
VSH-0312	3.125	3-1/8	79.4	2.912		.076		.106	2.892		.093		.070		58.0	3.85	3.76		
VSH-0315	3.156	3-5/32	80.2	2.940		.076	+.007 -.000	.108	2.920		.093		.070	±.002	59.0	3.88	3.78		
VSH-0325	3.250	3-1/4	82.5	3.026		.076		.112	3.006		.093		.070		62.0	3.93	3.83		
VSH-0334	3.346	3-11/32	85.0	3.112		.075		.117	3.092		.093		.069		64.0	4.02	3.92		
VSH-0343	3.438	3-7/16	87.3	3.199		.075		.119	3.179		.093		.069		66.0	4.12	4.01		
VSH-0350	3.500	3-1/2	88.9	3.257		.091	+.000 -.006 *.006*	.121	3.237		.109		.084	±.003	72.0	4.16	4.05		
VSH-0354	3.543	-	90.0	3.297		.091		.123	3.277		.109		.084		73.0	4.25	4.14		
VSH-0362	3.625	3-5/8	92.1	3.372		.090		.126	3.352		.109		.083		76.0	4.33	4.21		
VSH-0368	3.688	3-11/16	93.7	3.430		.089		.129	3.410	+.020 -.030	.109	±.003	.083		80.0	4.39	4.27		
VSH-0375	3.750	3-3/4	95.2	3.488		.089		.131	3.468		.109		.082		83.0	4.52	4.40		
VSH-0387	3.875	3-7/8	98.4	3.604		.089		.135	3.584		.109		.082		88.0	4.62	4.49		
VSH-0393	3.938	3-15/16	100.0	3.662		.088		.138	3.642		.109		.081		95.0	4.70	4.57		
VSH-0400	4.000	4	101.6	3.720		.088		.140	3.700		.109		.081		101.0	4.76	4.63		
VSH-0425	4.250	4-1/4	108.0	4.009		.094		.120	3.989		.109		.087		112.0	4.98	4.87		
VSH-0437	4.375	4-3/8	111.1	4.126		.094		.124	4.106		.109		.087		115.0	5.11	4.99		
VSH-0450	4.500	4-1/2	114.3	4.243		.094	.128	4.223		.109		.087	132.0	5.37	5.25				
VSH-0475	4.750	4-3/4	120.6	4.478		.092	.136	4.458		.109		.085	113.0	5.62	5.49				
VSH-0500	5.000	5	127.0	4.712		.091	.144	4.692		.109		.084	149.0	5.87	5.74				
VSH-0525	5.250	5-1/4	133.3	4.947		.105	+.008 -.000	.151	4.927		.125		.098	±.004	190.0	6.20	6.05		
VSH-0550	5.500	5-1/2	139.7	5.182		.104		.159	5.162	+.020 -.040	.125	±.004	.097		201.0	6.45	6.30		
VSH-0575	5.750	5-3/4	146.0	5.416		.103		.167	5.396		.125		.096		199.0	6.69	6.53		
VSH-0600	6.000	6	152.4	5.651		.102		.174	5.631		.125		.095		210.0	6.95	6.78		
VSH-0625	6.250	6-1/4	158.7	5.886		.132		.182	5.866		.156		.124		282.0	7.31	7.14		
VSH-0650	6.500	6-1/2	165.1	6.120		.131		.190	6.100	+.020 -.050	.156	±.003	.123		330.0	7.67	7.49		
VSH-0675	6.750	6-3/4	171.4	6.355		.130		.197	6.335		.156		.122		356.0	8.06	7.87		
VSH-0700	7.000	7	177.8	6.590		.129		.205	6.570		.156		.121		388.0	8.13	7.93		
VSH-0750	7.500	7-1/2	190.5	7.059		.158		+.000 -.008 *.006*	.220	7.039		.187			.149	±.005	534.0	8.70	8.49
VSH-0800	8.000	8	203.2	7.528		.157			.236	7.508		.187	±.005		.148		628.0	9.24	9.01
VSH-0850	8.500	8-1/2	215.9	7.997		.154	.251		7.977	+.020 -.060	.187	±.005		.145	700.0		9.79	9.54	
VSH-0900	9.000	9	228.6	8.465		.153	.267		8.445		.187		.144	757.0	10.60		10.34		
VSH-0950	9.500	9-1/2	241.3	8.935		.150	.282		8.915		.187		.141	820.0	11.10		10.82		
VSH-1000	10.000	10	254.0	9.405		.148	.297		9.385		.187		.139	964.0	11.61		11.32		

*** For plated rings, add .002" To the listed maximum thickness (t) and beveled end thickness (u) values.
 * F.I.M. (Full indicator movement)-maximum allowable deviation of concentricity between groove and shaft.
 For hardness specifications, see end of this section.

THE THREE PRONGS OF THIS RING MAKE CONTACT WITH THE BOTTOM OF THE GROOVE FOR EFFECTIVE RETENTION OF AN ASSEMBLY.



RING NO.	HOUSING DIAMETER			GROOVE SIZE					RING SIZE & WEIGHT				CLEARANCE DIA.			↑ THRUST LD. (lbs.) Sqr. Corner Abutment	
	Dh DEC	Dh FRAC	Dh mm	DIAMETER		WIDTH		DEPTH	FREE DIAMETER		THICKNESS***		Weight Per 1000 Pcs.	Free outside dia. REF.		Ring Safety factor of 3 ring	Groove Safety factor of 2 Nut
				Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.					
**E-0004	.040	-	1.0	.026		.012		.007	.025		.010		.009	.079	.090	13	6
E-0006	.062	1/16	1.6	.052		.012		.005	.051	+.001	.010	±.001	.030	.156	.165	20	7
SE-0006	.062	1/16	1.6	.052		.012		.005	.051	-.003	.010		.028	.140	.150	20	7
YE-0006	.062	1/16	1.6	.052		.023		.005	.051		.020		.094	.187	.200	41	7
SE-0009	.094	3/32	2.4	.074	+.002 -.000	.020	+.002 -.000	.010	.069	+.002-	.015		.10	.230	.245	46	20
E-0009	.094	3/32	2.4	.074		.020		.010	.073		.015		.058	.187	.200	46	20
SE-0011	.110	7/64	2.8	.079		.020		.015	.076		.015		.31	.375	.390	61	40
SE-0012	.125	1/8	3.2	.095		.029		.015	.094		.025		.12	.214	.225	110	45
E-0012	.125	1/8	3.2	.095		.020		.015	.094		.015		.087	.230	.240	66	45
SE-0014	.140	9/64	3.6	.102		.020		.019	.100		.015		.060	.203	.215	76	60
YE-0014	.140	9/64	3.6	.110		.020		.015	.108		.015		.10	.250	.265	76	45
E-0014	.140	9/64	3.6	.105		.029		.017	.102		.025		.21	.270	.285	173	60
SE-0015	.156	5/32	4.0	.118		.046		.019	.116	+.001	.042		.76	.375	.390	300	70
E-0015	.156	5/32	4.0	.116		.029		.020	.114	-.003	.025		.21	.282	.295	178	75
SE-0017	.172	11/64	4.4	.127	+.002 -.000	.029		.022	.125		.025		.24	.312	.325	183	90
SE-0018	.188	3/16	4.8	.125		.029		.031	.122		.025		.45	.375	.39	203	135
YE-0018	.188	3/16	4.8	.147		.029		.020	.145		.025		.70	.470	.485	193	90
ZE-0018	.188	3/16	4.8	.125		.029		.031	.122		.025		1.05	.550	.565	203	135
E-0018	.188	3/16	4.8	.147		.029		.020	.145		.025	±.002	.29	.335	.35	193	90
SE-0021	.219	7/32	5.6	.188		.029		.015	.185		.025		.47	.437	.45	228	75
E-0025	.250	1/4	6.3	.210		.029		.020	.207		.025		.76	.527	.54	259	115
SE-0031	.312	5/16	7.9	.250		.029		.031	.243		.025		.57	.500	.52	330	225
YE-0031	.312	5/16	7.9	.250		.029	+.003 -.000	.031	.243		.025		1.220	.670	.685	325	220
SE-0037	.375	3/8	9.5	.306		.039		.034	.303	+.002	.035		1.050	.567	.587	680	300
E-0037	.375	3/8	9.5	.303		.039		.036	.300	-.004	.035		1.5	.660	.68	700	315
E-0043	.438	7/16	11.1	.343		.039		.047	.337		.035		1.5	.687	.71	842	480
SE-0043	.438	7/16	11.1	.380	+.003 -.000	.039		.029	.375		.035		1.0	.600	.62	812	280
E-0050	.500	1/2	12.7	.396	*.004	.046		.052	.392		.042		2.5	.800	.82	1127	600
E-0062	.625	5/8	15.9	.485		.046		.070	.480		.042		3.2	.940	.96	1441	1050
SE-0074	.750	3/4	19.0	.625		.056		.062	.616		.050		4.3	1.000	1.02	1979	1100
E-0075	.750	3/4	19.0	.580		.056		.085	.574	+.003	.050		5.8	1.120	1.14	2030	1500
E-0087	.875	7/8	22.2	.675		.056		.100	.668	-.005	.050		7.6	1.300	1.32	2385	2050
SE-0098	.984	63/64	25.0	.835		.056		.074	.822		.050		9.2	1.500	1.53	2639	1750
SE-0098	1.000	1	25.4	.835		.056		.082	.822		.050		9.2	1.500	1.53	2690	1900
SE-0118	1.188	1-3/16	30.2	1.079	+.005 -.000	.068	+.004 -.000	.054	1.066	+.006	.062	±.003	11.3	1.626	1.67	3501	1500
SE-0137	1.375	1-3/8	34.9	1.230		.068		.072	1.213	-.010	.062		15.4	1.875	1.92	4162	2350

Listed groove width (w) minimum.

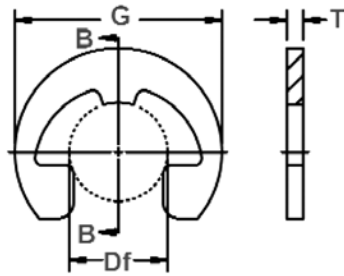
* F.I.M. (Full indicator movement)- maximum allowable deviation of concentricity between groove and shaft.

** Available in beryllium copper only.

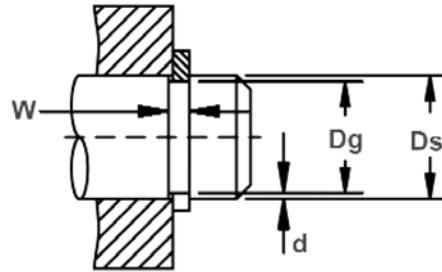
† based on grooves made of cold rolled steel. For an explanation of formulas used to derive thrust load and other performance data contact the rotor clip engineering department.

*** For plated rings, add .002" To the listed maximum thickness. Maximum thickness will be a minimum of .0002" Less than the

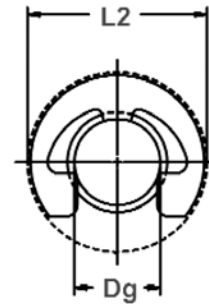
A REINFORCED VERSION OF THE E RING WHICH WILL ACCOMMODATE HIGHER RPM



Free Diameter & Ring Measurements with Section B-B



Shaft Diameter & Groove Dimensions



Clearance Diameter Installed in Groove

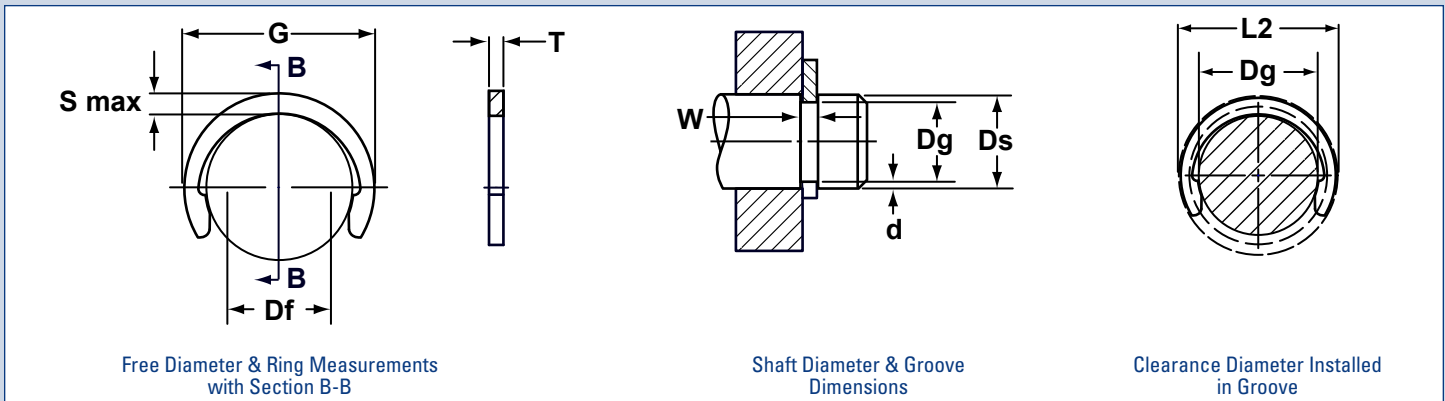
RING NO.	SHAFT DIAMETER			GROOVE SIZE					RING SIZE & WEIGHT				CLEARANCE DIA.		↑ THRUST LD. (lbs.) Sqr. Corner Abutment		
				DIAMETER		WIDTH		DEPTH	FREE DIAMETER		THICKNESS***		Weight Per 1000 Pcs.	Free Outside Dia.	Ring Safety factor of 3	Groove Safety factor of 2	
	Dh DEC	Dh FRAC	Dh mm	Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	lbs.	Ref. G	L2	Pr	Pg
RE-0009	.094	3/32	2.4	.074		.020	+0.002	.010	.072	+0.001	.015		.07	.206	.219	51	13
RE-0012	.125	1/8	3.2	.095	+0.002 -0.000	.020	-0.000	.015	.093	-0.003	.015		.13	.270	.283	76	25
RE-0015	.156	5/32	4.0	.116	.0015*	.029		.020	.113	+0.002-	.025		.31	.335	.35	152	40
RE-0018	.188	3/16	4.8	.147		.029		.020	.143		.025		.39	.375	.39	183	50
RE-0021	.219	7/32	5.6	.188	±.002	.029		.015	.182		.025		.54	.446	.46	223	50
RE-0025	.250	1/4	6.3	.210	.002*	.029		.020	.204	±.003	.025	±.002	.71	.516	.53	254	75
RE-0031	.312	5/16	7.9	.250		.029	+0.003 -0.000	.031	.242		.025		.85	.588	.61	305	135
RE-0037	.375	3/8	9.5	.303	±.003 .003*	.039		.036	.292		.035		1.5	.660	.68	528	190
RE-0043	.438	7/16	11.1	.343		.039		.047	.332		.035		1.9	.746	.77	609	285
RE-0050	.500	1/2	12.7	.396	±.003 .004*	.046		.052	.385	±.004	.042		3.2	.810	.83	832	360
RE-0056	.562	9/16	14.3	.437		.046		.062	.430		.042		3.5	.870	.89	944	480

* F.I.M. (Full indicator movement)- maximum allowable deviation of concentricity between groove & housing.

↑ Based on housings/shafts made of cold rolled steel. For an explanation of formulas used to derive thrust load and other performance data, contact a daemar technical sales representative.

***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.

IDEAL FOR LOW CLEARANCE APPLICATIONS WHERE RADIAL INSTALLATION IS PREFERRED.



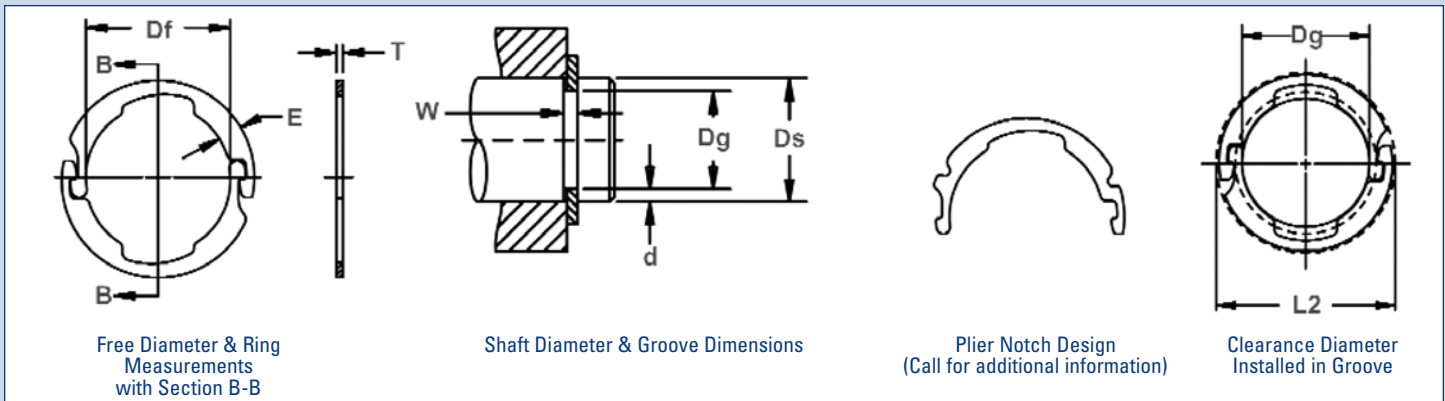
RING NO.	SHAFT DIAMETER			GROOVE SIZE					RING SIZE & WEIGHT				CLEARANCE DIA.			↑ THRUST LD. (lbs.) Sqr. Corner Abutment	
				DIAMETER		WIDTH		DEPTH	FREE DIAMETER		THICKNESS**		Weight Per 1000 Pcs.	Free Outside Dia. REF.		Ring Safety factor of 4	Groove Safety factor of 2
	Dh DEC	Dh FRAC	Dh mm	Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	lbs.	G	L2	Pr	Pg
C-0012	.125	1/8	3.2	.106		.020		.0095	.102		.015		.030	.165	.18	86	45
C-0015	.156	5/32	4.0	.135	±.0015	.020	+.002	.0105	.131	+.002	.015		.052	.205	.22	102	55
C-0018	.188	3/16	4.8	.165	*.0015	.020	-.000	.011	.161	-.004	.015		.062	.244	.25	132	70
C-0021	.219	7/32	5.6	.193		.029		.013	.187		.025		.120	.275	.29	264	100
C-0023	.236	15/64	6.0	.208	±.002*.002	.029		.014	.203		.025		.15	.295	.31	284	115
C-0025	.250	1/4	6.4	.220		.029		.015	.211		.025		.157	.311	.33	294	130
C-0028	.281	9/32	7.1	.247		.029		.017	.242	+.003	.025		.19	.346	.36	335	165
C-0031	.312	5/16	7.9	.276	±.002	.029		.018	.270	-.005	.025		.226	.376	.39	376	200
C-0037	.375	3/8	9.5	.335	*.002	.029		.020	.328		.025		.300	.448	.47	447	270
C-0040	.406	13/32	10.3	.364		.029		.021	.359		.025		.352	.486	.50	487	300
C-0043	.438	7/16	11.1	.393		.029	+.003	.022	.386		.025		.359	.517	.53	528	350
C-0050	.500	1/2	12.7	.450		.039		.025	.441		.035		.671	.581	.60	842	450
C-0056	.562	9/16	14.3	.507		.039	-.000	.028	.497	±.006	.035	±.002	.710	.653	.67	944	550
C-0062	.625	5/8	15.9	.563		.039		.031	.553		.035		.937	.715	.74	1045	700
C-0068	.688	11/16	17.5	.619		.046		.034	.608		.042		1.3	.784	.80	1726	800
C-0075	.750	3/4	19.0	.676	±.003	.046		.037	.665		.042		1.5	.845	.87	1878	1000
C-0081	.812	13/16	20.6	.732	*.004	.046		.040	.721		.042		1.7	.915	.94	2040	1150
C-0087	.875	7/8	22.2	.789		.046		.043	.777	±.007	.042		2.0	.991	1.01	2202	1300
C-0093	.938	15/16	23.8	.843		.046		.047	.830		.042		2.3	1.058	1.08	2355	1550
C-0100	1.000	1	25.4	.900		.046		.050	.887		.042		2.7	1.130	1.15	2517	1800
C-0112	1.125	1-1/8	28.6	1.013		.056		.056	.997		.050		4.0	1.267	1.30	3370	2200
C-0125	1.250	1-1/4	31.7	1.126	±.004	.056		.062	1.110		.050		5.1	1.415	1.44	3735	2700
C-0137	1.375	1-3/8	34.9	1.237	*.005	.056		.069	1.220	±.008	.050		6.1	1.555	1.58	4111	3350
C-0150	1.500	1-1/2	38.1	1.350		.056	+.004	.075	1.331	-.000	.050		7.6	1.691	1.72	4486	4000
C-0162	1.625	1-5/8	41.3	1.483		.068		.071	1.463		.062		11.0	1.853	1.88	5506	4650
C-0175	1.750	1-3/4	44.4	1.576	±.005	.068		.087	1.555	±.010	.062	±.003	12.9	1.975	2.01	6526	5300
C-0200	2.000	2	50.8	1.800	*.005	.068		.100	1.777		.062		16.2	2.257	2.30	7410	7000

*F.I.M.(Full indicator movement)-maximum allowable deviation of concentricity between groove and shaft.

† 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 dept.

** 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.

THE TWO HALVES OF THIS RETAINING RING INTERLOCK AND RETAIN ASSEMBLIES WITH EXTREMELY HIGH ROTATIONAL SPEEDS.



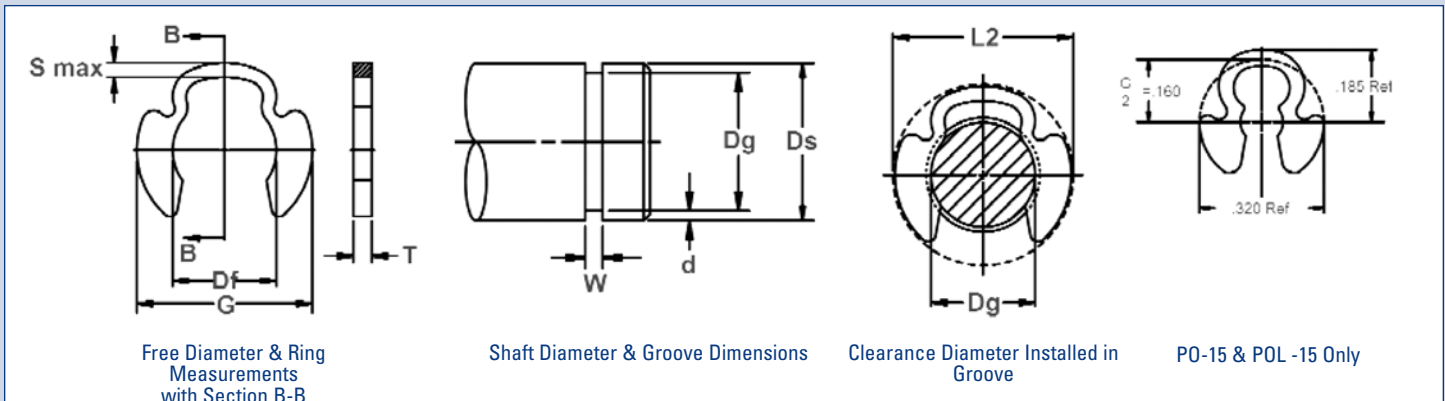
RING NO.	SHAFT DIAMETER			GROOVE SIZE					RING SIZE & WEIGHT					CLEAR. TOL. DIA. Installed in Groove	↑ THRUST LOAD (lbs.) Sq. Corner Abutment	
	Ds DEC	Ds FRAC	Ds mm	DIAMETER		WIDTH		DEPTH	FREE DIAMETER		THICKNESS***		Weight Per 1000 Pcs. (2 Halves)		Ring Safety Factor of 3	Groove Safety Factor of 2
				Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.		L2		
LC-0046	.469	15/32	11.9	.419		.039		.025	.414		.035		1.36	.640	2030	620
LC-0050	.500	1/2	12.7	.464	±.0015	.039		.018	.459	±.002	.035		1.50	.680	2132	480
LC-0059	.594	19/32	15.1	.544	*.004	.039		.025	.538		.035		1.74	.766	2538	790
LC-0062	.625	5/8	15.9	.575		.039	+0.003	.025	.569		.035		1.82	.797	2690	830
LC-0066	.669	-	17.0	.599		.046	-0.000	.035	.593		.042		3.1	.886	3400	1250
LC-0075	.750	3/4	19.0	.680	±.002	.046		.035	.673	±.003	.042		3.5	.967	3806	1400
LC-0078	.781	25/32	19.8	.711	*.004	.046		.035	.703		.042		3.6	.998	4009	1450
LC-0087	.875	7/8	22.2	.805		.046		.035	.796		.042	±.002	3.8	1.092	4466	1600
LC-0098	.984	63/64	25.0	.872	±.003	.056		.056	.863		.050		7.3	1.273	5938	2900
LC-0098	1.000	1	25.4	.872	*.004	.056		.064	.863		.050		7.3	1.273	5938	3400
LC-0112	1.125	1-1/8	28.6	1.013		.056		.056	1.002		.050		7.9	1.42	6801	3350
LC-0118	1.188	1-3/16	30.2	1.075		.056		.056	1.064	±.004	.050		8.5	1.48	7207	3500
LC-0125	1.250	1-1/4	31.7	1.138	±.003	.056		.056	1.126		.050		8.9	1.54	7562	3700
LC-0137	1.375	1-3/8	34.9	1.263	*.005	.056	+0.004	.056	1.250		.050		9.6	1.67	8323	4100
LC-0150	1.500	1-1/2	38.1	1.388		.056	-0.000	.056	1.374		.050		10.6	1.79	9084	4450
LC-0156	1.562	1-9/16	39.7	1.427		.068		.068	1.412		.062		16.4	1.91	11926	5650
LC-0162	1.625	1-5/8	41.3	1.489		.068		.068	1.474		.062		17.5	1.97	12434	5850
LC-0175	1.750	1-3/4	44.4	1.614		.068		.068	1.597	±.005	.062		18.4	2.10	13398	6300
LC-0175	1.772	-	45.0	1.614	±.005	.068		.078	1.597		.062		18.4	2.10	13398	7350
LC-0187	1.875	1-7/8	47.6	1.739	*.005	.068		.068	1.721		.062		20.8	2.22	14312	6800
LC-0196	1.969	1-31/32	50.0	1.797		.086		.086	1.779		.078		31.0	2.37	18524	9000
LC-0200	2.000	2	50.8	1.828		.086		.086	1.809		.078		31.6	2.40	18778	9150
LC-0212	2.125	2-1/8	54.0	1.953		.086		.086	1.933		.078		34.2	2.52	19996	9700
LC-0212	2.156	2-5/32	54.8	1.953		.086		.101	1.933	±.006	.078	±.003	34.2	2.52	19996	11500
LC-0225	2.250	2-1/4	57.1	2.078	±.005	.086		.086	2.057		.078		37.3	2.65	21112	10300
LC-0237	2.375	2-3/8	60.3	2.203	*.006	.086		.086	2.180		.078		38.9	2.77	22330	10800
LC-0250	2.500	2-1/2	63.5	2.328		.086	+0.005	.086	2.304		.078		39.7	2.90	23548	11400
LC-0262	2.625	2-5/8	66.7	2.453		.086	-0.000	.086	2.428		.078		43.9	3.02	24665	12000
LC-0275	2.750	2-3/4	69.8	2.544		.103		.103	2.518		.093		63.2	3.25	30653	15000
LC-0287	2.875	2-7/8	73.0	2.669		.103		.103	2.642		.093		68.4	3.37	32074	15700
LC-0300	3.000	3	76.2	2.794	±.006	.103		.103	2.754	±.008	.093		70.4	3.50	33495	16400
LC-0325	3.250	3-1/4	82.5	3.044		.103		.103	3.013		.093		77.6	3.75	36286	17800
LC-0337	3.375	3-3/8	85.7	3.145		.120		.115	3.114		.109		94.0	3.99	44153	20600

* F.I.M. (Full indicator movement)- maximum allowable deviation of concentricity between groove & housing.

† Based on housings/shafts made of cold rolled steel. For an explanation of formulas used to derive thrust load and other performance data, contact a daemar technical sales representative.

***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.

THE RING FEATURES WIDE "EARS" WHICH OFFER EXTRA RETENTION SURFACE AGAINST THE RETAINED PART



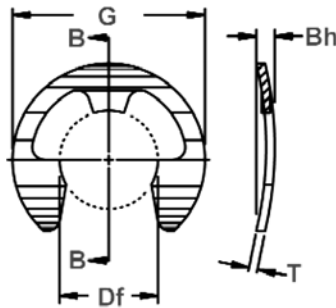
RING NO.	SHAFT DIAMETER			GROOVE SIZE						RING SIZE & WEIGHT					CLR. DIA.	↑ THRUST LOAD (lbs.) Sq. Corner Abutment	
	Ds DEC	Ds FRAC	Ds mm	DIAMETER			WIDTH		DEPTH	FREE DIAMETER		THICKNESS***		Weight Per 1000 Pcs. (2 Halves)		Installed in Groove	Ring Safety Factor of 2-1/2
				Dg	Tol.	F.I.M.*	W	Tol.	d ref	Df	Tol.	T	Tol.		lbs.		
PO-0015	.156	5/32	4.0	.120	±.004	.002	.039	+.006	.018	.110	±.003	.035	±.002	.42	.39	457	110
PO-0018	.188	3/16	4.8	.148	±.005	.002	.039		.020	.140		.035		.63	.42	609	130
PO-0025	.250	1/4	6.4	.210	±.006	.003	.039		.020	.188		.035		.84	.52	914	200
PO-0031	.312	5/16	7.9	.272		.003	.046	.020	.250	.042	1.46	.63	1320	250			
PO-0037	.375	3/8	9.5	.331	±.008	.003	.046	.022	.312	.042	1.92	.72	1573	300			
PO-0043	.438	7/16	11.1	.390		.003	.056	.024	.375	.050	2.66	.79	2233	400			
PO-0050	.500	1/2	12.7	.440	±.010	.004	.056	.030	.406	.050	3.30	.89	2538	600			
PO-0062	.625	5/8	15.9	.531		.004	.056	.047	.500	.050	4.65	1.03	3045	1100			
PO-0075	.750	3/4	19.0	.632	±.015	.004	.068	.059	.594	.062	6.35	1.17	4669	1600			
PO-0100	1.000	1	25.4	.860		.004	.086	.070	.812	.078	12.65	1.51	7613	2600			
PO-0125	1.250	1 - 1/4	31.8	1.090	±.010	.006	.103	.080	1.032	.093	25.20	1.90	11165	3500			
PO-0150	1.500	1 - 1/2	38.1	1.317		.008	.120	.091	1.250	.109	36.3	2.18	15530	4800			
PO-0175	1.750	1-3/4	44.4	1.480	±.015	.010	.139	.135	1.406	±.010	.125	53.0	2.45	20808	8200		
PO-0200	2.000	2	50.8	1.730		.012	.139	.135	1.625	±.015	.125	69.2	2.83	23853	9450		
POL-0015	.156	5/32	4.0	.120	±.004	.002	.029	+.006	.018	.110	±.003	.025	±.002	.30	.39	325	110
POL-0018	.188	3/16	4.8	.148	±.005	.002	.029		.020	.140		.025		.45	.42	436	130
POL-0025	.250	1/4	6.4	.210	±.006	.003	.029		.020	.188		.025		.60	.52	650	200
POL-0031	.312	5/16	7.9	.272		.003	.029	.020	.250	.025	.87	.63	792	250			
POL-0037	.375	3/8	9.5	.331	±.008	.003	.039	.022	.312	.035	1.60	.72	1320	300			
POL-0043	.438	7/16	11.1	.390		.003	.039	.024	.375	±.004	.035	1.86	.79	1878	400		
POL-0050	.500	1/2	12.7	.440	±.010	.004	.046	.030	.406	.042	2.77	.89	2132	600			
POL-0062	.625	5/8	15.9	.531		.004	.046	.047	.500	±.005	.042	3.65	1.03	2538	1100		
POL-0075	.750	3/4	19.0	.632	±.010	.004	.056	.059	.594	.050	5.35	1.17	3756	1600			
POL-0100	1.000	1	25.4	.860		.004	.056	.070	.812	±.006	.050	8.60	1.51	4872	2600		

* F.I.M. (Full indicator movement)- maximum allowable deviation of concentricity between groove & housing.

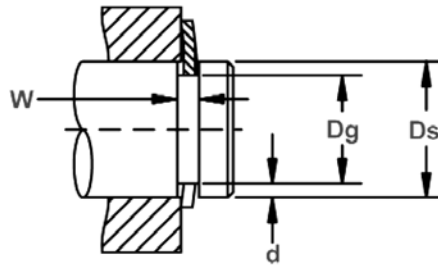
† Based on housings/shafts made of cold rolled steel. For an explanation of formulas used to derive thrust load and other performance data, contact a daemar technical sales representative.

***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.

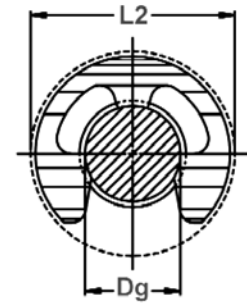
ONCE SNAPPED INTO THE GROOVE, THIS RING EXERTS A FORCE OR A "PRELOAD" ON THE RETAINED PART.



Free Diameter & Ring Measurements
with Section B-B



Shaft Diameter & Groove
Dimensions



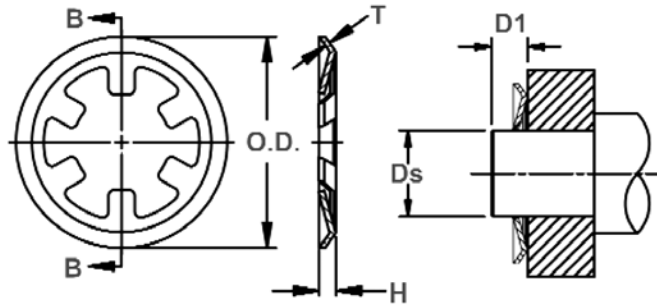
Clearance Diameter Installed
in Groove

RING NO.	SHAFT DIAMETER			GROOVE SIZE					RING SIZE AND WEIGHT					CLEAR. DIA.			
				DIAMETER		WIDTH		DEPTH	FREE DIAMETER		THICKNESS***		BOW HEIGHT		Weight Per 1000 Pcs.	Outside dia. REF.	Installed in groove
	Ds DEC	Ds FRACT	Ds mm	Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	Bh min.	Bh max.	lbs.	G	L2
BSE-0011	.110	7/64	2.8	.079	+0.002	.022		.015	.076		.010		.025	.035	.20	.375	.390
BE-0012	.125	1/8	3.2	.095	-0.000	.022		.015	.094		.010	±.001	.025	.035	.06	.230	.240
BSE-0014	.140	9/64	3.6	.102	.0015*	.019		.019	.100		.010		.022	.032	.040	.203	.215
BE-0014	.140	9/64	3.6	.105		.025		.017	.102		.015		.028	.038	.13	.270	.285
BE-0015	.156	5/32	4.0	.116		.027		.020	.114	+0.001	.015		.030	.040	.13	.282	.295
BSE-0017	.172	11/64	4.4	.127	+0.002	.029		.022	.125	-0.003	.015		.032	.042	.16	.312	.325
BE-0018	.188	3/16	4.8	.147	-0.000	.030		.020	.145		.015		.033	.043	.17	.335	.35
BSE-0018	.188	3/16	4.8	.125	.002*	.035		.031	.122		.015		.038	.048	.27	.375	.39
BSE-0021	.219	7/32	5.6	.188		.040		.015	.185		.015		.043	.058	.28	.437	.45
BE-0025	.250	1/4	6.3	.210		.047		.020	.207		.025		.050	.065	.76	.527	.54
BSE-0031	.312	5/16	7.9	.250		.047	+0.003	.031	.243	-0.000	.025		.050	.065	.57	.500	.52
BE-0037	.375	3/8	9.5	.303		.060		.036	.300		.035		.060	.076	1.5	.660	.68
BE-0043	.438	7/16	11.1	.343		.060		.047	.337	+0.002	.035	±.002	.060	.076	1.5	.687	.71
BSE-0043	.438	7/16	11.1	.380		.057		.029	.375	-0.004	.035		.060	.076	1.0	.600	.62
BE-0050	.500	1/2	12.7	.396	+0.003	.073	-0.000	.052	.392		.042		.075	.093	2.5	.800	.82
BE-0062	.625	5/8	15.9	.485	.004*	.077		.070	.480		.042		.080	.098	3.2	.940	.96
BSE-0074	.744	-	18.9	.625		.085		.060	.616		.050		.090	.110	4.3	1.000	1.02
BSE-0074	.750	3/4	19.0	.625		.085		.062	.616	+0.003	.050		.090	.110	4.3	1.000	1.02
BE-0075	.750	3/4	19.0	.580		.085		.085	.574	-0.005	.050		.090	.110	5.8	1.120	1.14
BE-0087	.875	7/8	22.2	.675		.085		.100	.668		.050		.090	.110	7.6	1.300	1.32
BSE-0098	.984	63/64	25	.835		.085		.074	.822		.050		.088	.112	9.38	1.500	1.530

*F.I.M. (Full indicator movement)-maximum allowable deviation of concentricity between groove and shaft.

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

PRONGS DIG INTO SHAFT WHEN LOAD IS INTRODUCED INTO OTHER SIDE.



Outside Diameter With Section B-B

Installation View

RING NO.	SHAFT DIAMETER				OUTSIDE DIAMETER		No. of prongs	*** RING HEIGHT		*	↑ Thrust Ld. @ Std. T	Wght. Per 1000 Pcs. @ Std. T	*	↑ Thrust Ld. @ Opt. T	WEIGHT Per 1000 Pcs. @ Opt. T	Min. Distance Face of part to end of shaft				
	Ds DEC		Ds FRACT	Ds mm	O.D.	Tol.		H	Tol.								T Tol.			
	FROM	TO																		
TX-0009	.091	.097	3/32	2.39	.326	±.005	3	.029	±.005	.010 ±.001	.16	.015 ±.002	45	.25	.058					
TX-0012	.121	.129	1/8	3.17	.366		4	.029								46	.22	70	.35	.058
TX-0015	.152	.160	5/32	3.96	.397		4	.029												
TX-0018	.184	.192	3/16	4.77	.444		6	.031	56	.27	85	.42	.062							
TX-0025	.246	.254	1/4	6.35	.522		6	.042						112	.55	58	.39	.074		
TX-0031	.308	.316	5/16	7.92	.584		8	.042	112	.64	60	.44	.074							
TX-0037	.371	.379	3/8	9.53	.645		8	.042						122	.74	65	.48	.074		
TX-0043	.432	.442	7/16	11.1	.737		10	.045	122	.96			.090							
TX-0050	.495	.505	1/2	12.7	.828		10	.054						122	1.27			.108		
TX-0056	.557	.567	9/16	14.27	.889		12	.054	127	1.38			.108							
TX-0062	.620	.630	5/8	15.88	.951	12	.054	137						1.47			.108			
TX-0075	.745	.755	3/4	19.05	1.076	14	.054		142	1.65			.108							
TX-087	.870	.880	7/8	22.23	1.203	16	.054	142						1.96			.108			
TX-0100	.995	1.005	1	25.4	1.327	18	.054		142	2.29			.108							

*For plated rings add .002" To maximum thickness and height.

** Standard thickness for stainless steel is as follows:tx-9-tx-37, .010"; Tx-43-tx-100, .015".

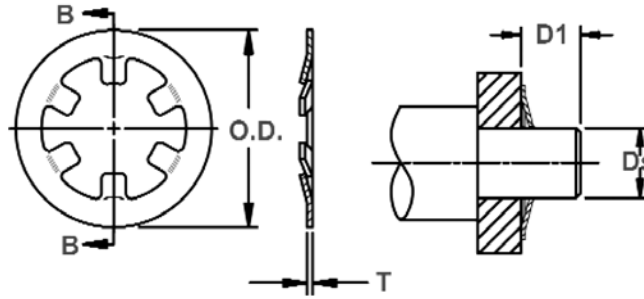
*** For tx-9-tx-18 optional thickness (.015"), Add .005" To ring height values (h) shown.

For tx-25-tx-37 optional thickness (.010), Deduct.005" From ring height values (h) shown.

For hardness specifications see page 94.

Thrust load capacity if applicable to parts made from carbon spring steel and stainless steel materials only.

PRONGS DIG INTO SHAFT WHEN LOAD IS INTRODUCED INTO OTHER SIDE.



Outside Diameter With Section B-B

Installation View

RING NO.	SHAFT DIAMETER			OUTSIDE DIAMETER		No. Of Prongs	THICKNESS*		Thrust Load lbs.	WEIGHT Per 1000 Pcs. lbs.	Min. Distance Face of part to end of shaft D1	
	Ds DEC-DEZ		Ds FRACT	Ds mm	O.D.		Tol.	T				Tol.
	FROM	TO										
TY-0009	.093	.095	3/32	2.39	.250	±.005	.010	±.001	13	.09	.040	
TY-0012	.124	.126	1/8	3.17	.325				20	.14	.040	
TY-0015	.155	.157	5/32	3.96	.356				25	.17	.040	
TY-0018	.187	.189	3/16	4.77	.387				35	.20	.040	
TY-0021	.218	.220	7/32	5.56	.418				35	.21	.040	
TY-0024	.239	.241	-	6.10	.460		6	.015	±.002	40	.35	.060
TY-0025	.249	.251	1/4	6.35	.450		6	.010	±.001	40	.23	.040
TY-0031	.311	.313	5/16	7.92	.512		6			45	.26	.040
TY-0037	.374	.376	3/8	9.53	.575		6			45	.27	.040
TY-0043	.437	.439	7/16	11.1	.638		6			50	.47	.060
TY-0050	.498	.502	1/2	12.7	.750	6	50			.72	.060	
TY-0056	.560	.564	9/16	14.27	.812	±.010	.015	±.002	50	.75	.060	
TY-0062	.623	.627	5/8	15.88	.875				7	50	.82	.060
TY-0075	.748	.752	3/4	19.05	1.000				8	55	.97	.060
TY-0087	.873	.877	7/8	22.23	1.125				10	60	1.1	.060
TY-0100	.998	1.002	1	25.4	1.250				10	65	1.2	.060

* For plated rings add .002" To maximum thickness.

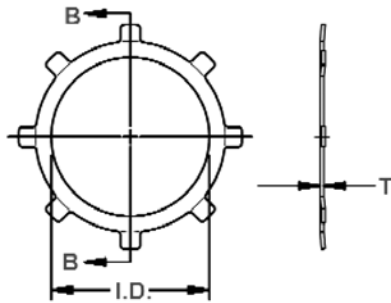
Larger sizes may be available upon request.

† 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 dept.

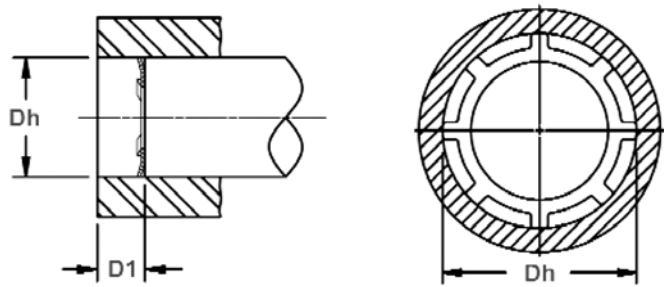
Thrust load capacity if applicable to parts made from carbon spring steel and stainless steel materials only.

For hardness specifications see page 94.

PRONGS DIG INTO THE HOUSING WHEN LOAD IS INTRODUCED TO OTHER SIDE.



Inside Diameter With Section B-B



Housing Diameter

RING NO.	HOUSING DIAMETER				RING SIZE & WEIGHT							Min. Distance Face of part to end of housing D1			
					INSIDE DIAMETER		THICKNESS***		No. of Prongs	Thrust Load lbs.	Weight Per 1000 Pcs. lbs.				
	FROM	TO	FRACT	mm	I.D.	Tol.	T	Tol.							
TI-0031	.311	.313	5/16	7.92	.136	±.005	.010	±.001	6	81	.11	.040			
TI-0037	.374	.376	3/8	9.53	.175				6	76	.16	.040			
TI-0043	.437	.439	7/16	11.13	.237				6	71	.20	.040			
TI-0044	.440	.442	-	11.20	.258				6	41	.18	.040			
TI-0050	.498	.502	1/2	12.7	.258				6	61	.24	.040			
TI-0056	.560	.564	9/16	14.27	.312				6	51	.29	.040			
TI-0062	.623	.627	5/8	15.85	.390				6	46	.30	.040			
TI-0063	.638	.640	-	16.23	.390				6	43	.32	.040			
TI-0075	.748	.752	3/4	19.05	.500				±.010	.015	±.002	8	76	.62	.060
TI-0087	.873	.877	7/8	22.23	.625							8	71	.75	.060
TI-0093	.936	.940	15/16	23.83	.687	10	71	.85				.060			
TI-0100	.998	1.002	1	25.4	.750	10	75	.91				.060			
TI-0112	1.123	1.127	1 1/8	28.57	.813	10	60	1.30				.060			
TI-0125	1.248	1.252	1 1/4	31.75	.938	10	60	1.50				.060			
TI-0143	1.436	1.44	1 7/16	36.51	1.117	12	60	1.73				.060			
TI-0150	1.498	1.502	1 1/2	38.10	1.188	12	60	1.80				.060			
TI-0175	1.748	1.752	1 3/4	44.45	1.438	12	55	2.10				.060			
TI-0200	1.998	2.002	2	50.80	1.600	14	55	3.00				.060			

*** For plated rings add .002" To maximum thickness.

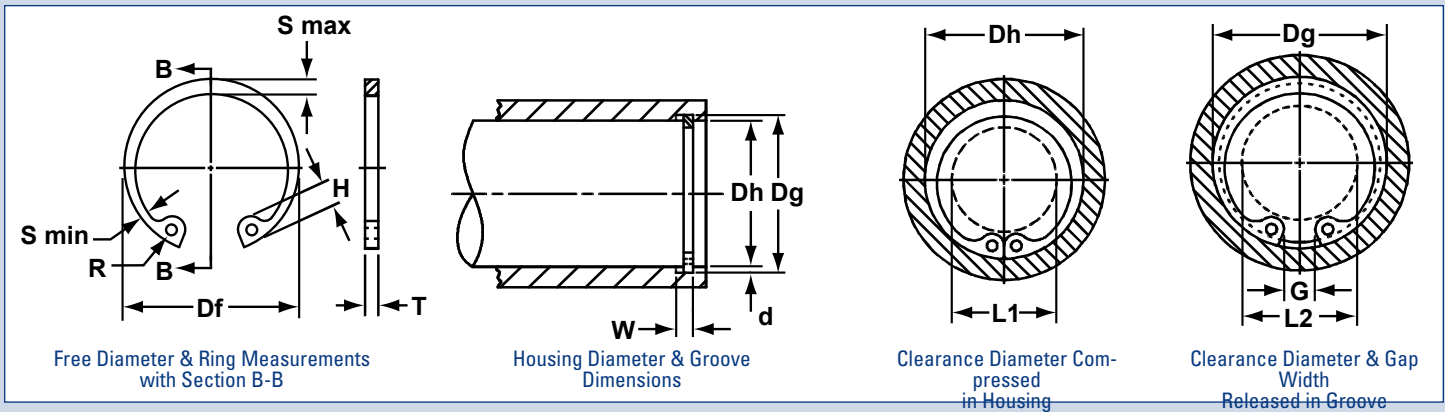
Larger sizes may be available upon request.

† 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 dept.

Thrust load capacity if applicable to parts made from carbon spring steel and stainless steel materials only.

ONCE INSTALLED IN THE GROOVE OF A HOUSING/BORE, THE SHOULDER HOLDS AN ASSEMBLY IN PLACE.



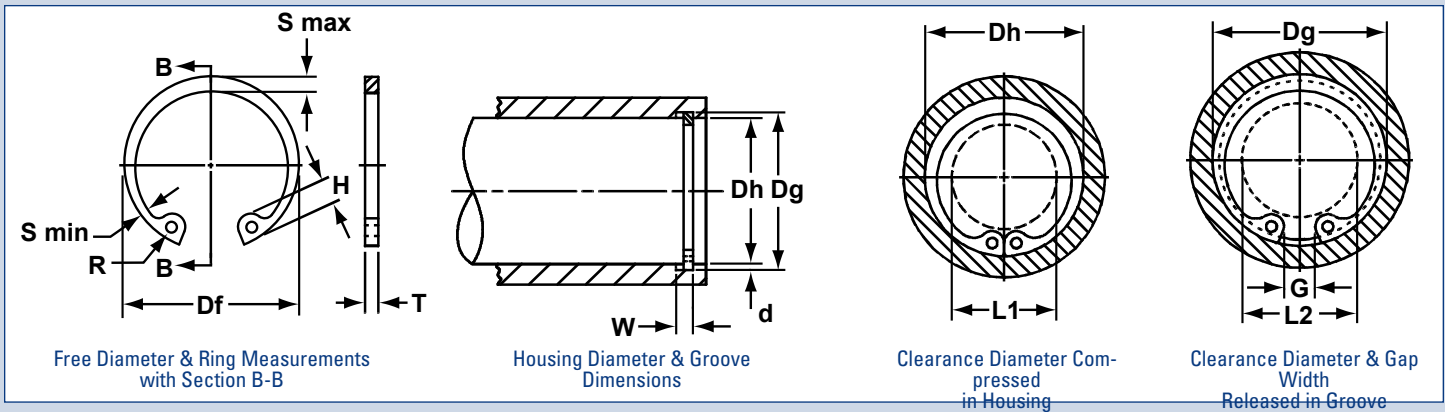
Ring No.	GROOVE SIZE						RINGS SIZE & WEIGHT							SUPPLEMENTARY DATA							
	DIAMETER		WIDTH	DEPTH	THICKNESS ***		FREE DIAMETER		LUG HT.	MAX. SEC.	HOLE DIA.	WEIGHT	EDGE	THRUST LOAD Ring	THRUST LOAD Groove		Max. load w/ R/Ch Max.				
	Dh	Dg	Tol.	W Min.	d	T	Tol.	Df	Tol.	H Max.	S Ref.	R Min.	kg/1000	Y Min.	Pr kN	Pg kN	R/Ch Max.	P'r kN			
DHO-008	8	8.4	+0.09	0.90	0.20	0.80	-0.05	8.7		2.4	1.1	1.0	0.10	0.6	2.0	0.86	0.5	1.5			
DHO-009	9	9.4		0.90	0.20	0.80		9.8		2.5	1.3	1.0	0.13	0.6	2.0	0.96	0.5	1.5			
DHO-010	10	10.4	+0.11	1.10	0.20	1.00		10.8	+0.36 -0.10	3.2	1.4	1.2	0.26	0.6	4.0	1.08	0.5	2.2			
DHO-011	11	11.4		1.10	0.20	1.00		11.8		3.3	1.5	1.2	0.31	0.6	4.0	1.17	0.5	2.3			
DHO-012	12	12.5		1.10	0.25	1.00		13.0		3.4	1.7	1.5	0.37	0.8	4.0	1.60	0.5	2.3			
DHO-013	13	13.6		1.10	0.30	1.00		14.1		3.6	1.8	1.5	0.42	0.9	4.2	2.10	0.5	2.3			
DHO-014	14	14.6		1.10	0.30	1.00		15.1		3.7	1.8	1.7	0.52	0.9	4.5	2.25	0.5	2.3			
DHO-015	15	15.7		1.10	0.35	1.00		16.2		3.7	2.0	1.7	0.56	1.1	5.0	2.80	0.5	2.3			
DHO-016	16	16.8		1.10	0.40	1.00		17.3		3.8	2.0	1.7	0.60	1.2	5.5	3.40	1.0	2.6			
DHO-017	17	17.8		1.10	0.40	1.00		18.3		3.9	2.1	1.7	0.65	1.2	6.0	3.60	1.0	2.5			
DHO-018	18	19.0	+0.13	1.10	0.50	1.00		19.5	+0.42 -0.13	4.1	2.2	2.0	0.74	1.5	6.5	4.80	1.0	2.6			
DHO-019	19	20.0		1.10	0.50	1.00		20.5		4.1	2.2	2.0	0.83	1.5	6.8	5.10	1.0	2.6			
DHO-020	20	21.0		1.10	0.50	1.00		21.5		4.1	2.3	2.0	0.90	1.5	7.2	5.40	1.0	2.6			
DHO-021	21	22.0		1.10	0.50	1.00		22.5		4.2	2.4	2.0	1.00	1.5	7.6	5.70	1.0	2.6			
DHO-022	22	23.0		1.10	0.50	1.00		23.5		4.2	2.5	2.0	1.10	1.5	8.0	5.90	1.0	2.7			
DHO-023	23	24.1		1.30	0.55	1.20		24.6		4.2	2.5	2.0	1.34	1.7	8.0	6.80	1.0	4.6			
DHO-024	24	25.2		+0.21	1.30	0.60		1.20		-0.06	25.9	+0.42 -0.21	4.4	2.6	2.0	1.42	1.8	13.9	7.70	1.0	4.6
DHO-025	25	26.2			1.30	0.60		1.20			26.9		4.5	2.7	2.0	1.50	1.8	14.6	8.00	1.0	4.7
DHO-026	26	27.2	1.30		0.60	1.20	27.9	4.7	2.8		2.0		1.60	1.8	13.8	8.40	1.0	4.6			
DHO-027	27	28.4	1.30		0.70	1.20	29.1	4.7	2.9		2.0		1.75	2.1	13.3	10.10	1.0	4.5			
DHO-028	28	29.4	1.30		0.70	1.20	30.1	4.8	2.9		2.0		1.80	2.1	13.3	10.50	1.0	4.5			
DHO-029	29	30.4	1.30		0.70	1.20	31.1	4.8	3.0		2.0		1.88	2.1	13.6	10.90	1.0	4.6			
DHO-030	30	31.4	1.30		0.70	1.20	32.1	4.8	3.0		2.0		2.06	2.1	13.7	11.30	1.0	4.6			
DHO-031	31	32.7	+0.25		1.30	0.85	1.20		33.4		+0.50 -0.25		5.2	3.1	2.5	2.10	2.6	13.8	14.10	1.0	4.7
DHO-032	32	33.7		1.30	0.85	1.20	34.4		5.4	3.2		2.5	2.21	2.6	13.8	14.60	1.0	4.7			
DHO-033	33	34.7		1.30	0.85	1.20	35.5		5.4	3.3		2.5	2.40	2.6	14.3	15.00	1.0	4.9			
DHO-034	34	35.7		1.60	0.85	1.50	36.5		5.4	3.3		2.5	3.20	2.6	26.2	15.40	1.5	6.3			
DHO-035	35	37.0		1.60	1.00	1.50	37.8		5.4	3.4		2.5	3.54	3.0	26.9	18.80	1.5	6.4			
DHO-036	36	38.0		1.60	1.00	1.50	38.8		5.4	3.5		2.5	3.70	3.0	26.4	19.40	1.5	6.4			
DHO-037	37	39.0		1.60	1.00	1.50	39.8		5.5	3.6		2.5	3.74	3.0	27.1	19.80	1.5	6.5			
DHO-038	38	40.0		1.60	1.00	1.50	40.8		5.5	3.7		2.5	3.90	3.0	28.2	22.50	1.5	6.7			

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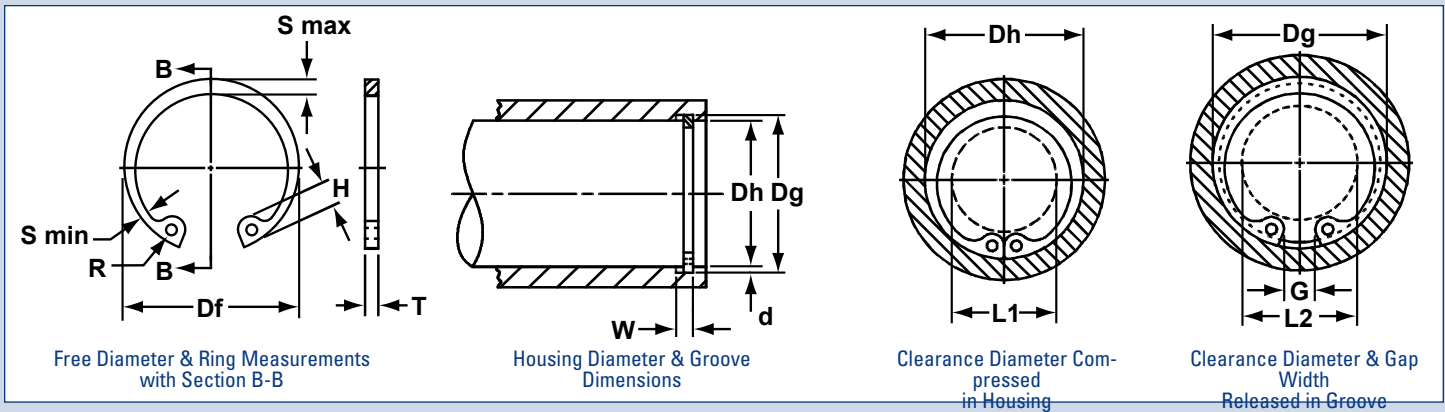
Ring No.	GROOVE SIZE						RINGS SIZE & WEIGHT							SUPPLEMENTARY DATA				
	DIAMETER		WIDTH	DEPTH	THICKNESS ***		FREE DIAMETER		LUG HT.	MAX. SEC.	HOLE DIA.	WEIGHT	EDGE	THRUST LOAD Ring	THRUST LOAD Groove	Max. load w/ R/Ch Max.		
	Dh	Dg	Tol.	W Min.	d	T	Tol.	Df	Tol.	H Max.	S Ref.	R Min.	kg/1000	Y Min.	Pr kN	Pg kN	R/Ch Max.	P'r kN
DHO-039	39	41.0	+0.25	1.60	1.00	1.50	-0.06	42.0	+0.90 -0.39	5.6	3.8	2.5	4.00	3.0	28.8	26.00	1.5	6.9
DHO-040	40	42.5		1.85	1.25	1.75		43.5		5.8	3.9	2.5	4.70	3.8	44.6	27.00	2.0	8.3
DHO-041	41	43.5		1.85	1.25	1.75		44.5		5.9	4.0	2.5	5.10	3.8	45.0	27.60	2.0	8.3
DHO-042	42	44.5		1.85	1.25	1.75		45.5		5.9	4.1	2.5	5.40	3.8	44.7	28.40	2.0	8.4
DHO-043	43	45.5		1.85	1.25	1.75		46.5		5.9	4.2	2.5	5.60	3.8	44.5	28.80	2.0	8.4
DHO-044	44	46.5		1.85	1.25	1.75		47.5		6.0	4.2	2.5	5.80	3.8	43.3	29.50	2.0	8.3
DHO-045	45	47.5		1.85	1.25	1.75		48.5		6.2	4.3	2.5	6.00	3.8	43.1	30.20	2.0	8.2
DHO-046	46	48.5		1.85	1.25	1.75		49.5		6.3	4.4	2.5	6.05	3.8	42.9	30.80	2.0	8.2
DHO-047	47	49.5	1.85	1.25	1.75	50.5	6.4	4.4	2.5	6.10	3.8	43.5	31.40	2.0	8.3			
DHO-048	48	50.5	1.85	1.25	1.75	51.5	6.4	4.5	2.5	6.70	3.8	43.2	32.00	2.0	8.4			
DHO-050	50	53.0	+0.30	2.15	1.50	2.00	-0.07	54.2	+1.10 -0.46	6.5	4.6	2.5	7.30	4.5	60.8	40.50	2.0	12.1
DHO-051	51	54.0		2.15	1.50	2.00		55.2		6.5	4.7	2.5	7.75	4.5	60.2	41.20	2.0	12.0
DHO-052	52	55.0		2.15	1.50	2.00		56.2		6.7	4.7	2.5	8.20	4.5	60.2	42.00	2.0	12.0
DHO-053	53	56.0		2.15	1.50	2.00		57.2		6.7	4.9	2.5	8.22	4.5	60.7	42.90	2.0	12.1
DHO-054	54	57.0		2.15	1.50	2.00		58.2		6.7	5.0	2.5	8.25	4.5	60.4	43.60	2.0	12.3
DHO-055	55	58.0		2.15	1.50	2.00		59.2		6.8	5.0	2.5	8.30	4.5	60.3	44.40	2.0	12.5
DHO-056	56	59.0		2.15	1.50	2.00		60.2		6.8	5.1	2.5	8.80	4.5	60.3	45.20	2.0	12.6
DHO-057	57	60.0		2.15	1.50	2.00		61.2		6.8	5.1	2.5	9.40	4.5	60.8	46.00	2.0	12.7
DHO-058	58	61.0	2.15	1.50	2.00	62.2	6.9	5.2	2.5	10.50	4.5	60.8	46.70	2.0	12.7			
DHO-060	60	63.0	+0.30	2.15	1.50	2.00	-0.07	64.2	+1.10 -0.46	7.3	5.4	2.5	11.10	4.5	61.0	48.30	2.0	13.0
DHO-062	62	65.0		2.15	1.50	2.00		66.2		7.3	5.5	2.5	11.20	4.5	60.9	49.80	2.0	13.0
DHO-063	63	66.0		2.15	1.50	2.00		67.2		7.3	5.6	2.5	12.40	4.5	60.8	50.60	2.0	13.0
DHO-064	64	67.0		2.15	1.50	2.00		68.2		7.4	5.7	2.5	12.45	4.5	60.6	51.40	2.0	13.0
DHO-065	65	68.0		2.65	1.50	2.50		69.2		7.6	5.8	3.0	14.30	4.5	121	51.80	2.5	20.8
DHO-067	67	70.0		2.65	1.50	2.50		71.5		7.7	6.0	3.0	15.30	4.5	121	53.80	2.5	21.1
DHO-068	68	71.0		2.65	1.50	2.50		72.5		7.8	6.1	3.0	16.00	4.5	119	56.20	2.5	21.0
DHO-070	70	73.0		2.65	1.50	2.50		74.5		7.8	6.2	3.0	16.50	4.5	119	56.20	2.5	21.0
DHO-072	72	75.0	2.65	1.50	2.50	76.5	7.8	6.4	3.0	18.10	4.5	119	58.00	2.5	21.0			
DHO-075	75	78.0	2.65	1.50	2.50	79.5	7.8	6.6	3.0	18.80	4.5	118	60.00	2.5	21.0			
DHO-076	76	79.0	2.65	1.50	2.50	80.5	7.8	6.6	3.0	19.00	4.5	119	61.00	2.5	21.0			
DHO-077	77	80.0	2.65	1.50	2.50	82.5	8.5	6.8	3.0	20.40	4.5	121	61.60	2.5	21.5			
DHO-078	78	81.0	+0.35	2.65	1.50	2.50	-0.54	82.5	+1.30 -0.54	8.5	6.8	3.0	20.40	4.5	122	62.30	2.5	21.8
DHO-080	80	83.5		2.65	1.75	2.50		85.5		8.5	7.0	3.0	22.00	5.3	120	74.60	2.5	21.8

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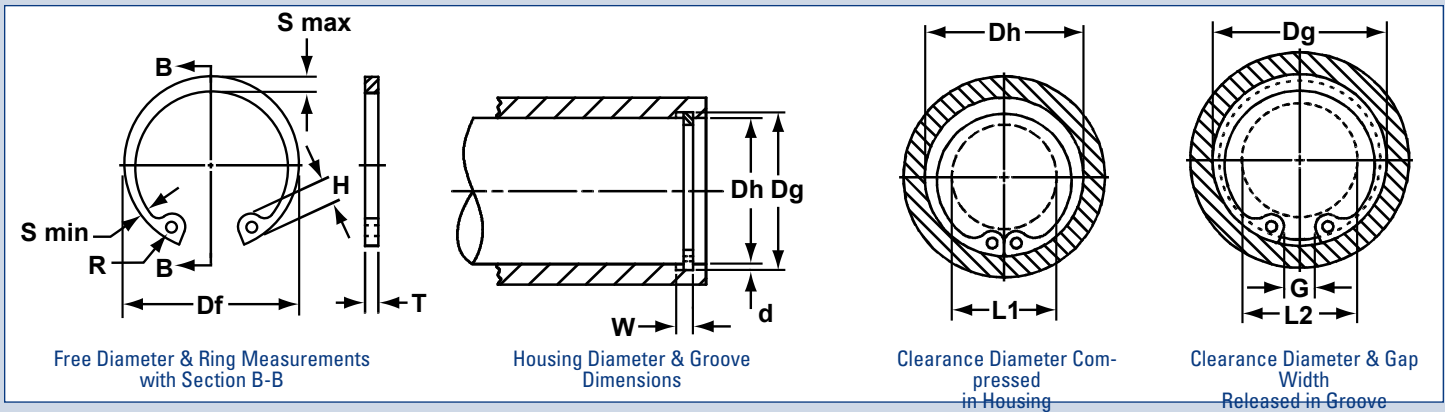
Ring No.	GROOVE SIZE						RINGS SIZE & WEIGHT						SUPPLEMENTARY DATA					
	DIAMETER		WIDTH	DEPTH	THICKNESS ***		FREE DIAMETER		LUG HT.	MAX. SEC.	HOLE DIA.	WEIGHT	EDGE	THRUST LOAD Ring	THRUST LOAD Groove		Max. load w/ R/Ch Max.	
	Dh	Dg	Tol.	W Min.	d	T	Tol.	Df	Tol.	H Max.	S Ref.	R Min.	kg/1000	Y Min.	Pr kN	Pg kN	R/Ch Max.	P'r kN
DHO-081	81	84.5	+0.35	2.65	1.75	2.50	-0.07	86.5	+1.30 -0.54	8.5	7.0	3.0	23.00	5.3	119	75.80	2.5	21.6
DHO-082	82	85.5		2.65	1.75	2.50		87.5		8.5	7.0	3.0	24.00	5.3	119	76.6	2.5	21.4
DHO-083	83	86.5		2.65	1.75	2.50		88.5		8.5	7.0	3.0	25.00	5.3	118	77.5	2.5	21.2
DHO-085	85	88.5		3.15	1.75	3.00		90.5		8.6	7.2	3.5	25.30	5.3	201	79.5	3.0	31.2
DHO-087	87	90.5		3.15	1.75	3.00		93.5		8.6	7.4	3.5	31.00	5.3	204	81.3	3.0	31.8
DHO-088	88	91.5		3.15	1.75	3.00	93.5	8.6		7.4	3.5	31.00	5.3	209	82.0	3.0	32.7	
DHO-090	90	93.5		3.15	1.75	3.00	95.5	8.6		7.6	3.5	33.00	5.3	199	84.0	3.0	31.4	
DHO-092	92	95.5		3.15	1.75	3.00	97.5	8.7		7.8	3.5	35.00	5.3	201	85.0	3.0	32.0	
DHO-095	95	98.5		3.15	1.75	3.00	100.5	8.8		8.1	3.5	37.00	5.3	195	88.0	3.0	31.4	
DHO-098	97	100.5		3.15	1.75	3.00	103.5	9.0		8.3	3.5	41.00	5.3	193	90.0	3.0	31.2	
DHO-098	98	101.5	3.15	1.75	3.00	103.5	9.0	8.3	3.5	41.00	5.3	191	91.0	3.0	31.0			
DHO-100	100	103.5	3.15	1.75	3.00	105.5	9.2	8.4	3.5	42.00	5.3	188	93.0	3.0	30.8			
DHO-102	102	106.0	+0.54	4.15	2.00	4.00	108.0	9.5	8.5	3.5	55.00	6.0	439	108.0	3.0	72.6		
DHO-105	105	109.0		4.15	2.00	4.00	112.0	9.5	8.7	3.5	56.00	6.0	436	112.0	3.0	73.0		
DHO-107	107	111.0		4.15	2.00	4.00	115.0	9.5	8.9	3.5	60.00	6.0	425	114.0	3.0	71.6		
DHO-108	108	112.0		4.15	2.00	4.00	115.0	9.5	8.9	3.5	60.00	6.0	419	115.0	3.0	71.0		
DHO-110	110	114.0		4.15	2.00	4.00	117.0	10.4	9.0	3.5	64.50	6.0	415	117.0	3.0	71.0		
DHO-112	112	116.0		4.15	2.00	4.00	119.0	10.5	9.1	3.5	72.00	6.0	418	119.0	3.0	72.0		
DHO-115	115	119.0		4.15	2.00	4.00	122.0	10.5	9.3	3.5	74.50	6.0	409	122.0	3.0	71.2		
DHO-117	117	121.0		4.15	2.00	4.00	125.0	10.7	9.6	3.5	75.50	6.0	399	124.0	3.0	70.0		
DHO-118	118	122.0		4.15	2.00	4.00	125.0	10.7	9.6	3.5	75.50	6.0	394	125.0	3.0	69.3		
DHO-120	120	124.0		4.15	2.00	4.00	127.0	11.0	9.7	3.5	77.00	6.0	396	127.0	3.0	70.0		
DHO-122	122	126.0	4.15	2.00	4.00	129.0	11.0	9.8	4.0	78.00	6.0	399	129.0	3.0	71.0			
DHO-125	125	129.0	+0.63	4.15	2.00	4.00	132.0	11.0	10.0	4.0	79.00	6.0	385	132.0	3.0	70.0		
DHO-127	127	131.0		4.15	2.00	4.00	135.0	11.0	10.0	4.0	81.00	6.0	383	135.0	3.0	70.0		
DHO-128	128	132.0		4.15	2.00	4.00	135.0	11.0	10.2	4.0	81.00	6.0	378	136.0	3.0	69.0		
DHO-130	130	134.0		4.15	2.00	4.00	137.0	11.0	10.2	4.0	82.00	6.0	374	138.0	3.0	69.0		
DHO-132	132	136.0		4.15	2.00	4.00	139.0	11.0	10.3	4.0	83.00	6.0	366	140.0	3.0	68.0		
DHO-135	135	139.0		4.15	2.00	4.00	142.0	11.2	10.5	4.0	84.00	6.0	358	143.0	3.0	67.0		
DHO-137	137	141.0		4.15	2.00	4.00	145.0	11.2	10.6	4.0	86.00	6.0	356	145.0	3.0	67.0		
DHO-138	138	142.0		4.15	2.00	4.00	145.0	11.2	10.6	4.0	86.00	6.0	352	146.0	3.0	66.5		
DHO-140	140	144.0		4.15	2.00	4.00	147.0	11.2	10.7	4.0	87.50	6.0	350	148.0	3.0	66.5		

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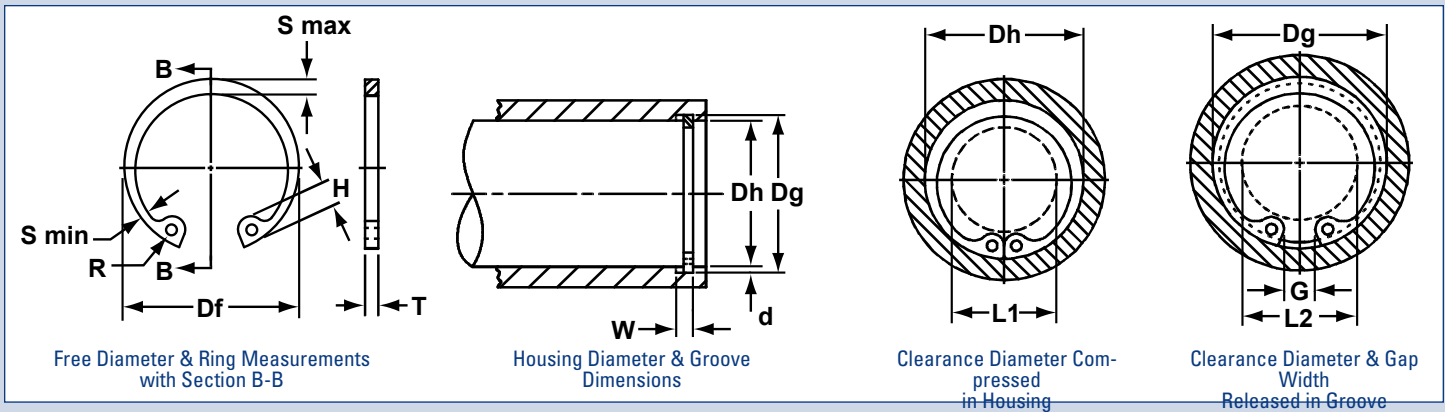
Ring No.	GROOVE SIZE						RINGS SIZE & WEIGHT							SUPPLEMENTARY DATA				
	DIAMETER		WIDTH	DEPTH	THICKNESS ***		FREE DIAMETER		LUG HT.	MAX. SEC.	HOLE DIA.	WEIGHT	EDGE	THRUST LOAD Ring	THRUST LOAD Groove	Max. load w/ R/Ch Max.		
	Dh	Dg	Tol.	W Min.	d	T	Tol.	Df	Tol.	H Max.	S Ref.	R Min.	kg/1000	Y Min.	Pr kN	Pg kN	R/Ch Max.	P'r kN
DHO-142	142	146.0	+0.63	4.15	2.00	4.00	-0.10	149.0	+1.50 -0.63	11.3	10.8	4.0	89.00	6.0	342	150.0	3.0	65.5
DHO-145	145	149.0		4.15	2.00	4.00		152.0		11.4	10.9	4.0	93.00	6.0	336	153.0	3.0	65.0
DHO-147	147	151.0		4.15	2.00	4.00		155.0		11.8	11.1	4.0	100.0	6.0	336	156.0	3.0	65.0
DHO-148	148	152.0		4.15	2.00	4.00		155.0		11.8	11.1	4.0	100.0	6.0	331	157.0	3.0	64.5
DHO-150	150	155.0		4.15	2.50	4.00		158.0		12.0	11.2	4.0	105.0	7.5	326	191.0	3.0	64.0
DHO-152	152	157.0		4.15	2.50	4.00		161.0		12.0	11.3	4.0	106.0	7.5	326	202.0	3.5	55.0
DHO-155	155	160.0		4.15	2.50	4.00		164.0		12.0	11.4	4.0	107.0	7.5	324	206.0	3.5	55.0
DHO-157	157	162.0		4.15	2.50	4.00		167.0		12.3	11.5	4.0	109.0	7.5	328	208.0	3.5	55.5
DHO-158	158	163.0		4.15	2.50	4.00		167.0		12.3	11.5	4.0	109.0	7.5	326	210.0	3.5	55.0
DHO-160	160	165.0		4.15	2.50	4.00		169.0		13.0	11.6	4.0	110.0	7.5	321	212.0	3.5	54.5
DHO-162	162	167.0		4.15	2.50	4.00		171.5		13.0	11.7	4.0	118.0	7.5	321	215.0	3.5	54.5
DHO-165	165	170.0		4.15	2.50	4.00		174.5		13.0	11.8	4.0	125.0	7.5	319	219.0	3.5	54.0
DHO-167	167	172.0		4.15	2.50	4.00		177.5		13.5	12.1	4.0	135.0	7.5	355	221.0	3.5	60.0
DHO-168	168	173.0		4.15	2.50	4.00		177.5		13.5	12.1	4.0	135.0	7.5	353	223.0	3.5	60.0
DHO-170	170	175.0		4.15	2.50	4.00		179.5		13.5	12.2	4.0	140.0	7.5	349	225.0	3.5	59.0
DHO-172	172	177.0		4.15	2.50	4.00		181.5		13.5	12.5	4.0	145.0	7.5	357	228.0	3.5	60.0
DHO-175	175	180.0		4.15	2.50	4.00		184.5		13.5	12.7	4.0	150.0	7.5	351	232.0	3.5	59.0
DHO-177	177	182.0	+0.72	4.15	2.50	4.00	187.5	14.2	12.9	4.0	162.0	7.5	346	235.0	3.5	58.5		
DHO-178	178	183.0		4.15	2.50	4.00	187.5	14.2	12.9	4.0	162.0	7.5	344	236.0	3.5	58.0		
DHO-180	180	185.0		4.15	2.50	4.00	189.5	14.2	13.2	4.0	165.0	7.5	347	238.0	3.5	58.5		
DHO-182	182	187.0		4.15	2.50	4.00	191.5	14.2	13.5	4.0	168.0	7.5	355	241.0	3.5	60.0		
DHO-185	185	190.0		4.15	2.50	4.00	194.5	14.2	13.7	4.0	170.0	7.5	349	245.0	3.5	59.0		
DHO-187	187	192.0		4.15	2.50	4.00	197.5	14.2	13.8	4.0	174.0	7.5	345	248.0	3.5	58.5		
DHO-188	188	193.0		4.15	2.50	4.00	197.5	14.2	13.8	4.0	174.0	7.5	343	249.0	3.5	58.0		
DHO-190	190	195.0		4.15	2.50	4.00	199.5	14.2	13.8	4.0	175.0	7.5	340	251.0	3.5	57.5		
DHO-192	192	197.0		4.15	2.50	4.00	201.5	14.2	13.8	4.0	178.0	7.5	336	254.0	3.5	57.0		
DHO-195	195	200.0		4.15	2.50	4.00	204.5	14.2	13.8	4.0	183.0	7.5	330	258.0	3.5	55.5		
DHO-197	197	202.0		4.15	2.50	4.00	207.5	14.2	14.0	4.0	190.0	7.5	330	260.0	3.5	55.5		
DHO-198	198	203.0		4.15	2.50	4.00	207.5	14.2	14.0	4.0	190.0	7.5	329	262.0	3.5	55.5		
DHO-200	200	205.0		4.15	2.50	4.00	209.5	14.2	14.0	4.0	195.0	7.5	325	265.0	3.5	55.0		
DHO-202	202	208.0		5.15	3.00	5.00	214.0	14.2	14.0	4.0	210.0	9.0	625	321.0	4.0	92.5		
DHO-205	205	211.0		5.15	3.00	5.00	217.0	14.2	14.0	4.0	225.0	9.0	616	326.0	4.0	91.5		
DHO-207	207	213.0		5.15	3.00	5.00	217.0	14.2	14.0	4.0	225.0	9.0	610	329.0	4.0	90.0		

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ONCE INSTALLED IN THE GROOVE OF A HOUSING/BORE, THE SHOULDER HOLDS AN ASSEMBLY IN PLACE.



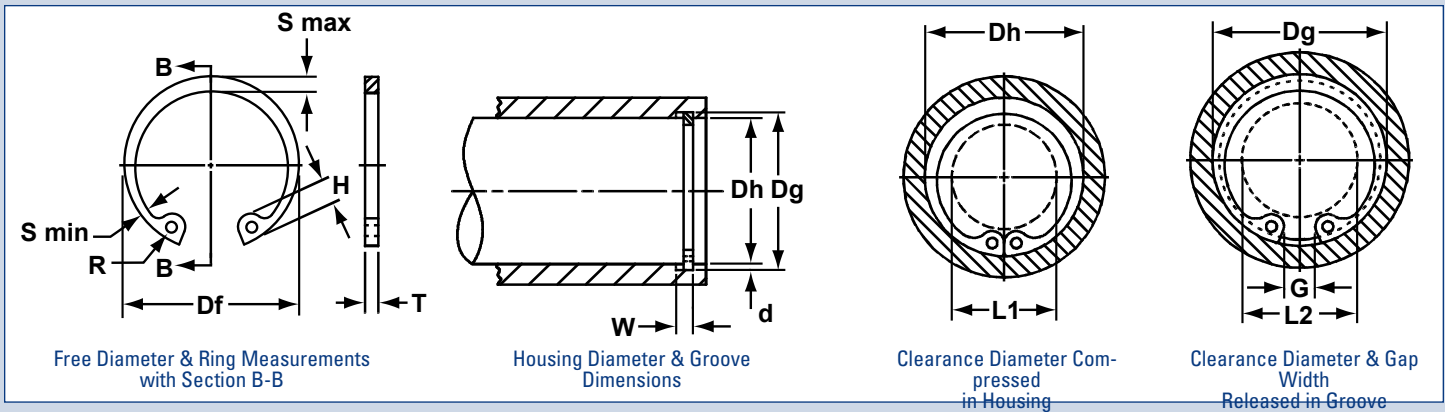
Ring No.	GROOVE SIZE						RINGS SIZE & WEIGHT							SUPPLEMENTARY DATA				
	DIAMETER		WIDTH	DEPTH	THICKNESS ***		FREE DIAMETER		LUG HT.	MAX. SEC.	HOLE DIA.	WEIGHT	EDGE	THRUST LOAD Ring	THRUST LOAD Groove	Max. load w/ R/Ch Max.		
	Dh	Dg	Tol.	W Min.	d	T	Tol.	Df	Tol.	H Max.	S Ref.	R Min.	kg/1000	Y Min.	Pr kN	Pg kN	R/Ch Max.	P'r kN
DHO-208	208	214.0	+0.72	5.15	3.00	5.00	-0.12	222.0	+1.70 -0.72	14.2	14.0	4.0	270.0	9.0	607	331.0	4.0	90.0
DHO-210	210	216.0		5.15	3.00	5.00		222.0		14.2	14.0	4.0	270.0	9.0	601	333.0	4.0	89.5
DHO-212	212	218.0		5.15	3.00	5.00		222.0		14.2	14.0	4.0	270.0	9.0	596	337.0	4.0	88.5
DHO-215	215	221.0		5.15	3.00	5.00		227.0		14.2	14.0	4.0	300.0	9.0	586	341.0	4.0	87.0
DHO-217	217	223.0		5.15	3.00	5.00		227.0		14.2	14.0	4.0	300.0	9.0	581	345.0	4.0	86.0
DHO-218	218	224.0		5.15	3.00	5.00		232.0		14.2	14.0	4.0	315.0	9.0	580	346.0	4.0	86.0
DHO-220	220	226.0		5.15	3.00	5.00		232.0		14.2	14.0	4.0	315.0	9.0	574	349.0	4.0	85.0
DHO-222	222	228.0		5.15	3.00	5.00		232.0		14.2	14.0	4.0	315.0	9.0	568	353.0	4.0	84.0
DHO-225	225	231.0		5.15	3.00	5.00		237.0		14.2	14.0	4.0	323.0	9.0	560	357.0	4.0	83.0
DHO-227	227	233.0		5.15	3.00	5.00		237.0		14.2	14.0	4.0	323.0	9.0	555	361.0	4.0	82.0
DHO-228	228	234.0	5.15	3.00	5.00	242.0	14.2	14.0	4.0	330.0	9.0	554	362.0	4.0	82.0			
DHO-230	230	236.0	5.15	3.00	5.00	242.0	14.2	14.0	4.0	330.0	9.0	549	365.0	4.0	81.0			
DHO-232	232	238.0	5.15	3.00	5.00	242.0	14.2	14.0	4.0	330.0	9.0	544	369.0	4.0	80.50			
DHO-235	235	241.0	5.15	3.00	5.00	247.0	14.2	14.0	4.0	338.0	9.0	536	373.0	4.0	79.50			
DHO-237	237	243.0	5.15	3.00	5.00	247.0	14.2	14.0	4.0	338.0	9.0	531	376.0	4.0	79.00			
DHO-238	238	244.0	5.15	3.00	5.00	252.0	14.2	14.0	4.0	345.0	9.0	530	378.0	4.0	79.00			
DHO-240	240	246.0	5.15	3.00	5.00	252.0	14.2	14.0	4.0	345.0	9.0	525	380.0	4.0	77.50			
DHO-242	242	248.0	5.15	3.00	5.00	252.0	14.2	14.0	4.0	345.0	9.0	521	385.0	4.0	77.00			
DHO-245	245	251.0	5.15	3.00	5.00	257.0	14.2	14.0	4.0	353.0	9.0	514	389.0	4.0	76.50			
DHO-247	247	253.0	5.15	3.00	5.00	257.0	14.2	14.0	4.0	353.0	9.0	509	392.0	4.0	76.00			
DHO-248	248	254.0	5.15	3.00	5.00	262.0	14.2	14.0	4.0	360.0	9.0	507	394.0	4.0	75.50			
DHO-250	250	256.0	5.15	3.00	5.00	262.0	14.2	14.0	4.0	360.0	9.0	504	396.0	4.0	75.00			
DHO-252	252	260.0	+0.81	5.15	4.00	5.00	-0.81	262.0	+2.00 -0.81	14.2	16.0	5.0	360.0	12.0	557	535.0	4.0	83.00
DHO-255	255	263.0		5.15	4.00	5.00		270.0		16.2	16.0	5.0	368.0	12.0	549	541.0	4.0	81.50
DHO-257	257	265.0		5.15	4.00	5.00		270.0		16.2	16.0	5.0	368.0	12.0	545	546.0	4.0	81.00
DHO-258	258	266.0		5.15	4.00	5.00		275.0		16.2	16.0	5.0	375.0	12.0	543	548.0	4.0	80.50
DHO-260	260	268.0		5.15	4.00	5.00		275.0		16.2	16.0	5.0	375.0	12.0	538	553.0	4.0	80.00
DHO-262	262	270.0		5.15	4.00	5.00		275.0		16.2	16.0	5.0	375.0	12.0	535	556.0	4.0	79.00
DHO-265	265	273.0		5.15	4.00	5.00		280.0		16.2	16.0	5.0	383.0	12.0	528	563.0	4.0	78.50
DHO-267	267	275.0		5.15	4.00	5.00		280.0		16.2	16.0	5.0	383.0	12.0	524	566.0	4.0	78.00
DHO-268	268	276.0		5.15	4.00	5.00		285.0		16.2	16.0	5.0	388.0	12.0	522	570.0	4.0	77.50
DHO-270	270	278.0		5.15	4.00	5.00		285.0		16.2	16.0	5.0	388.0	12.0	518	573.0	4.0	77.00
DHO-272	272	280.0	5.15	4.00	5.00	285.0	16.2	16.0	5.0	388.0	12.0	515	577.0	4.0	76.50			

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ONCE INSTALLED IN THE GROOVE OF A HOUSING/BORE, THE SHOULDER HOLDS AN ASSEMBLY IN PLACE.



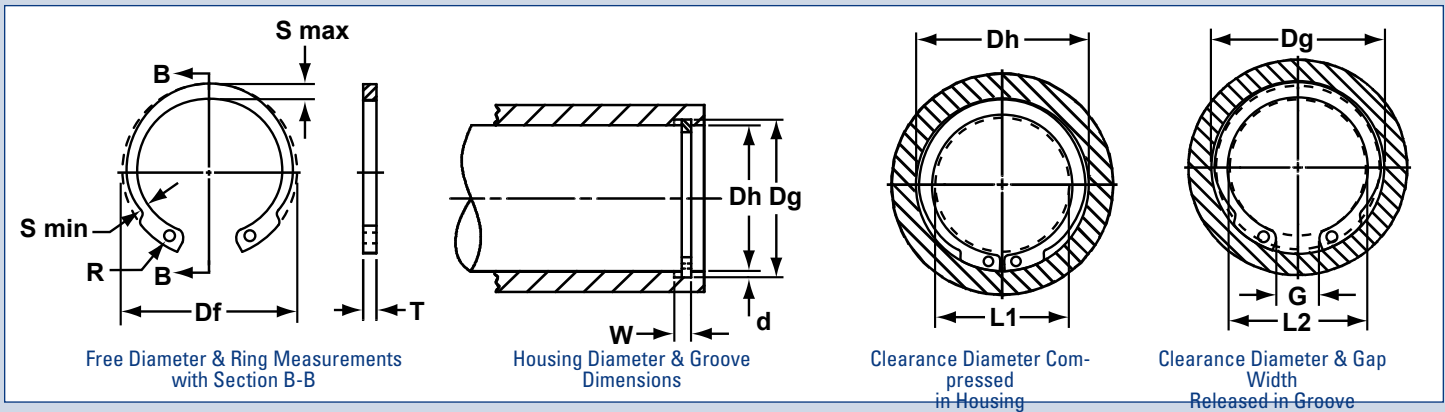
Ring No.	GROOVE SIZE						RINGS SIZE & WEIGHT							SUPPLEMENTARY DATA				
	DIAMETER		WIDTH	DEPTH	THICKNESS ***		FREE DIAMETER		LUG HT.	MAX. SEC.	HOLE DIA.	WEIGHT	EDGE	THRUST LOAD Ring	THRUST LOAD Groove		Max. load w/ R/Ch Max.	
	Dh	Dg	Tol.	W Min.	d	T	Tol.	Df	Tol.	H Max.	S Ref.	R Min.	kg/1000	Y Min.	Pr kN	Pg kN	R/Ch Max.	P'r kN
DHO-275	275	283.0	+0.81	5.15	4.00	5.00	-0.12	290.0	+2.00 -0.81	16.2	16.0	5.0	393.0	12.0	509	585.0	4.0	75.50
DHO-277	277	285.0		5.15	4.00	5.00		290.0		16.2	16.0	5.0	393.0	12.0	505	587.0	4.0	75.00
DHO-278	278	286.0		5.15	4.00	5.00		295.0		16.2	16.0	5.0	400.0	12.0	504	590.0	4.0	75.00
DHO-280	280	288.0		5.15	4.00	5.00		295.0		16.2	16.0	5.0	400.0	12.0	499	593.0	4.0	74.00
DHO-282	282	290.0		5.15	4.00	5.00		295.0		16.2	16.0	5.0	400.0	12.0	497	599.0	4.0	74.00
DHO-285	285	293.0		5.15	4.00	5.00		300.0		16.2	16.0	5.0	408.0	12.0	491	605.0	4.0	73.00
DHO-287	287	295.0		5.15	4.00	5.00		300.0		16.2	16.0	5.0	408.0	12.0	487	610.0	4.0	72.00
DHO-288	288	296.0		5.15	4.00	5.00		305.0		16.2	16.0	5.0	415.0	12.0	485	611.0	4.0	72.00
DHO-290	290	298.0		5.15	4.00	5.00		305.0		16.2	16.0	5.0	415.0	12.0	482	615.0	4.0	71.50
DHO-292	292	300.0		5.15	4.00	5.00		305.0		16.2	16.0	5.0	415.0	12.0	479	620.0	4.0	71.00
DHO-295	295	303.0		5.15	4.00	5.00		310.0		16.2	16.0	5.0	426.0	12.0	474	625.0	4.0	70.50
DHO-297	297	305.0		5.15	4.00	5.00		310.0		16.2	16.0	5.0	426.0	12.0	471	630.0	4.0	70.50
DHO-398	298	306.0		5.15	4.00	5.00		315.0		16.2	16.0	5.0	435.0	12.0	469	631.0	4.0	69.50
DHO-300	300	308.0		5.15	4.00	5.00		315.0		16.2	16.0	5.0	435.0	12.0	466	636.0	4.0	69.00
DHO-305	305	315.0		6.20	5.00	6.00		322.0		16.2	20.0	6.0	755.0	15.0	961	810.0	5.0	114.00
DHO-310	310	320.0	6.20	5.00	6.00	327.0	20.2	20.0	6.0	770.0	15.0	947	823.0	5.0	113.00			
DHO-315	315	325.0	6.20	5.00	6.00	332.0	20.2	20.0	6.0	785.0	15.0	934	837.0	5.0	111.00			
DHO-320	320	330.0	6.20	5.00	6.00	337.0	20.2	20.0	6.0	800.0	15.0	919	850.0	5.0	109.00			
DHO-325	325	335.0	6.20	5.00	6.00	342.0	20.2	20.0	6.0	810.0	15.0	906	864.0	5.0	108.00			
DHO-330	330	340.0	6.20	5.00	6.00	347.0	20.2	20.0	6.0	820.0	15.0	894	876.0	5.0	106.00			
DHO-335	335	345.0	6.20	5.00	6.00	352.0	20.2	20.0	6.0	830.0	15.0	880	890.0	5.0	105.00			
DHO-340	340	350.0	6.20	5.00	6.00	357.0	20.2	20.0	6.0	840.0	15.0	869	903.0	5.0	104.00			
DHO-345	345	355.0	6.20	5.00	6.00	362.0	20.2	20.0	6.0	855.0	15.0	857	916.0	5.0	102.00			
DHO-350	350	360.0	6.20	5.00	6.00	367.0	20.2	20.0	6.0	870.0	15.0	846	929.0	5.0	101.00			
DHO-355	355	365.0	6.20	5.00	6.00	372.0	20.2	20.0	6.0	880.0	15.0	834	942.0	5.0	99.00			
DHO-360	360	370.0	6.20	5.00	6.00	377.0	20.2	20.0	6.0	890.0	15.0	823	955.0	5.0	98.00			
DHO-365	365	375.0	6.20	5.00	6.00	382.0	20.2	20.0	6.0	906.0	15.0	813	968.0	5.0	97.00			
DHO-370	370	380.0	6.20	5.00	6.00	387.0	20.2	20.0	6.0	920.0	15.0	803	981.0	5.0	95.00			
DHO-375	375	385.0	6.20	5.00	6.00	392.0	20.2	20.0	6.0	932.0	15.0	793	994.0	5.0	94.00			
DHO-380	380	390.0	6.20	5.00	6.00	397.0	20.2	20.0	6.0	940.0	15.0	784	1008.0	5.0	93.00			
DHO-385	385	395.0	6.20	5.00	6.00	402.0	20.2	20.0	6.0	950.0	15.0	774	1021.0	5.0	92.00			
DHO-390	390	400.0	6.20	5.00	6.00	407.0	20.2	20.0	6.0	960.0	15.0	764	1033.0	5.0	91.00			
DHO-395	395	405.0	6.20	5.00	6.00	412.0	20.2	20.0	6.0	972.0	15.0	756	1047.0	5.0	90.00			
DHO-400	400	410.0	+1.00	6.20	5.00	6.00	417.0	20.2	20.0	6.0	980.0	15.0	746	1060.0	5.0	89.00		

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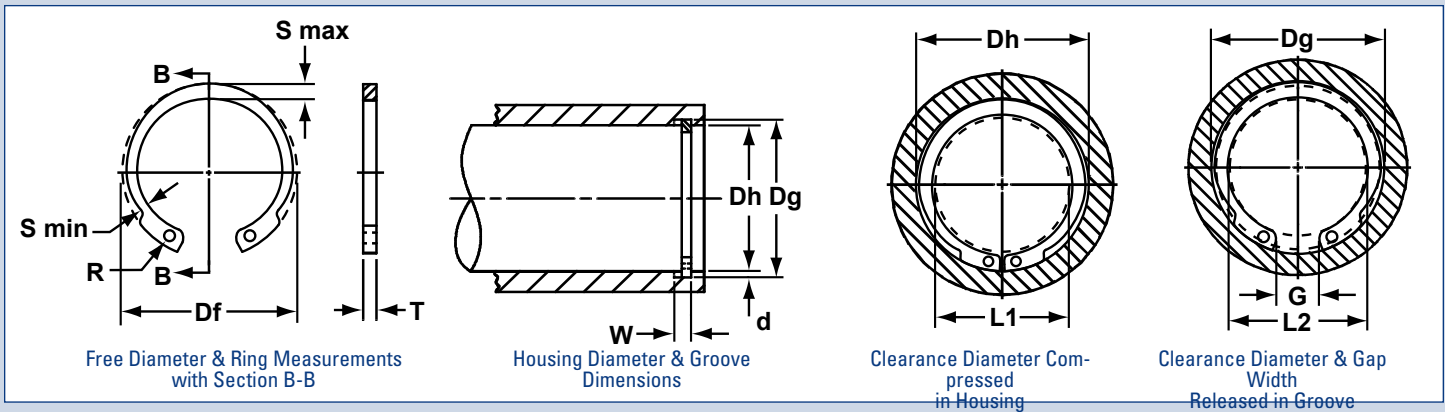
THE INVERTED POSITION OF THE LUGS AFFORDS GREATER CLEARANCE THAN THE BASIC EXTERNAL RETAINING RING.



RING NO.	GROOVE SIZE					RING SIZE & WEIGHT							SUPPLEMENTARY DATA					
	DIAMETER		WIDTH	DEPTH	THICKNESS ***	FREE DIAMETER		MAX. SEC.	HOLE DIA.	WEIGHT	EDGE	THRUST LOAD Ring	THRUST LOAD Groove		Max. load w/R/Ch. Max.			
	Dh	Dg	Tol.	W Min.	d	T	Tol.	Df	Tol.	S	Tol.	R Min.	kg/1000	Y Min.	Pr kN	Pg kN	R/Ch. Max.	P'r kN
DHI-012	12	12.6	+0.11	0.70	0.30	0.60	-0.05	13.1	+0.42	1.8	±0.1	1.0	0.25	0.9	1.8	0.75	0.8	1.0
DHI-015	15	15.7		0.90	0.35	0.80		16.1		2.0		1.0	0.41	1.0	3.3	1.33	1.0	1.9
DHI-016	16	16.8		1.10	0.40	1.00		17.3		2.1		1.3	0.53	1.2	5.2	1.67	1.0	3.1
DHI-017	17	17.8	+0.15	1.10	0.40	1.00	-0.06	18.3	-0.13	2.1	±0.1	1.3	0.58	1.2	5.8	1.70	1.0	3.0
DHI-018	18	19.0		1.10	0.50	1.00		19.5		2.2		1.3	0.62	1.5	6.3	1.78	1.0	3.0
DHI-019	19	20.0		1.10	0.50	1.00		20.5		2.2		1.3	0.66	1.5	6.6	2.50	1.0	2.8
DHI-020	20	21.0	+0.21	1.10	0.50	1.00	-0.06	21.5	+0.42	2.3	±0.1	1.3	0.80	1.5	7.0	2.66	1.0	2.9
DHI-021	21	22.0		1.10	0.50	1.00		22.5		2.4		1.3	0.81	1.5	7.4	2.73	1.0	2.8
DHI-022	22	23.0		1.10	0.50	1.00		23.5		2.4		1.3	0.83	1.5	7.5	2.80	1.0	2.8
DHI-024	24	25.2	+0.25	1.30	0.60	1.20	-0.06	25.9	+0.42	2.8	±0.1	1.5	1.30	1.8	14.5	3.68	1.0	4.8
DHI-025	25	26.2		1.30	0.60	1.20		26.9		2.8		1.5	1.40	1.8	14.8	4.00	1.0	5.0
DHI-026	26	27.2		1.30	0.60	1.20		27.9		3.0		1.5	1.50	1.8	15.3	4.17	1.0	5.2
DHI-027	27	28.4	+0.25	1.30	0.70	1.20	-0.06	29.1	+0.50	3.0	±0.1	1.5	1.53	2.1	15.0	5.00	1.0	5.1
DHI-028	28	29.4		1.30	0.70	1.20		30.1		3.1		1.5	1.80	2.1	15.3	5.10	1.0	5.2
DHI-030	30	31.4		1.30	0.70	1.20		32.1		3.2		1.5	2.03	2.1	14.9	5.50	1.0	5.1
DHI-032	32	33.7	+0.25	1.30	0.85	1.20	-0.06	34.4	+0.50	3.3	±0.1	1.5	2.05	2.5	14.1	7.00	1.0	4.9
DHI-033	33	34.7		1.30	0.85	1.20		35.5		3.3		1.5	2.35	2.5	13.8	7.30	1.0	4.8
DHI-034	34	35.7		1.60	0.85	1.50		36.5		3.4		1.5	2.95	2.5	24.0	7.50	1.5	6.0
DHI-035	35	37.0	+0.25	1.60	1.00	1.50	-0.06	37.8	+0.50	3.4	±0.1	1.7	3.20	3.0	26.4	9.20	1.5	6.3
DHI-036	36	38.0		1.60	1.00	1.50		38.8		3.6		1.7	3.23	3.0	27.5	9.70	1.5	6.6
DHI-038	38	40.0		1.60	1.00	1.50		40.8		3.8		1.7	3.68	3.0	28.0	10.20	1.5	6.7

*** For plated rings, add 0.05 To the listed maximum thickness. Maximum ring thickness will be a minimum of 0.005 Less than the listed groove width (w) minimum.

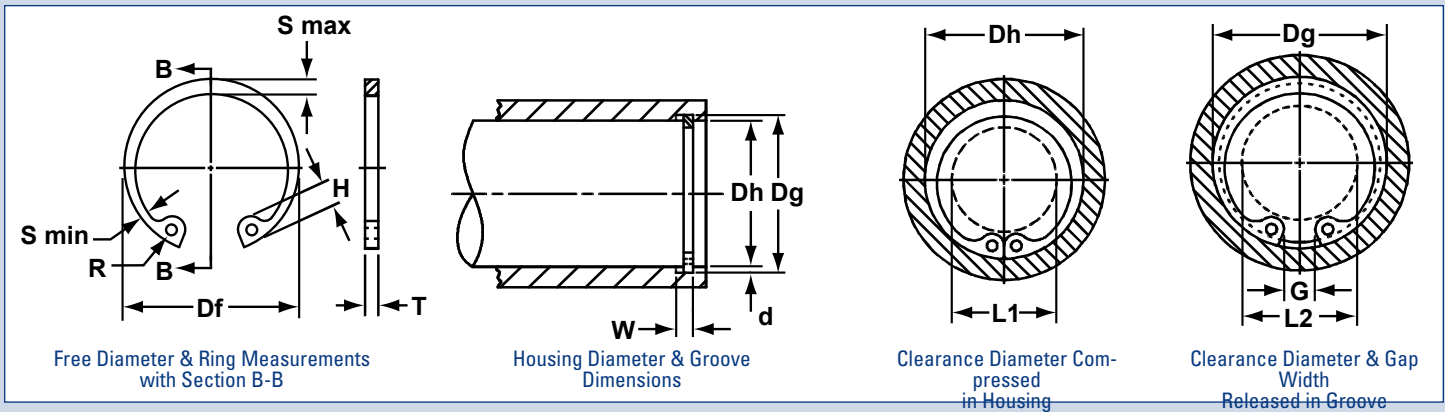
THE INVERTED POSITION OF THE LUGS AFFORDS GREATER CLEARANCE THAN THE BASIC EXTERNAL RETAINING RING.



RING NO.	GROOVE SIZE					RING SIZE & WEIGHT							SUPPLEMENTARY DATA					
	DIAMETER		WIDTH	DEPTH	THICKNESS ***	FREE DIAMETER		MAX. SEC.	HOLE DIA.	WEIGHT	EDGE	THRUST LOAD Ring	THRUST LOAD Groove		Max. load w/R/Ch. Max.			
	Dh	Dg	Tol.	W Min.	d	T	Tol.	Df	Tol.	S	Tol.	R Min.	kg/1000	Y Min.	Pr kN	Pg kN	R/Ch. Max.	P'r kN
DHI-040	40	42.5	+0.30	1.85	1.25	1.75	-0.07	43.5	+0.90 -0.39	4.2	±0.2	2.0	4.75	3.8	45.5	13.50	2.0	8.4
DHI-042	42	44.5		1.85	1.25	1.75		45.5		4.2		2.0	5.20	3.8	45.5	14.10	2.0	8.5
DHI-045	45	47.5		1.85	1.25	1.75		48.5		4.2		2.0	6.00	3.8	44.0	15.00	2.0	8.4
DHI-047	47	49.5		1.85	1.25	1.75		50.5		4.7		2.0	6.50	3.8	45.0	15.80	2.0	8.7
DHI-048	48	50.5	+0.30	1.85	1.25	1.75	-0.07	51.5	+1.10 -0.46	4.7	±0.2	2.0	7.00	3.8	48.0	16.00	2.0	9.1
DHI-050	50	53.0		2.15	1.50	2.00		54.2		5.2		2.5	8.50	4.5	69.0	20.00	2.0	13.4
DHI-052	52	55.0		2.15	1.50	2.00		56.2		5.2		2.5	9.00	4.5	66.5	20.80	2.0	13.3
DHI-055	55	58.0		2.15	1.50	2.00		59.2		5.2		2.5	10.00	4.5	66.0	22.20	2.0	13.3
DHI-057	57	60.0		2.15	1.50	2.00		61.2		5.2		2.5	10.25	4.5	65.0	23.00	2.0	13.1
DHI-058	58	61.0		2.15	1.50	2.00		62.2		5.2		2.5	10.50	4.5	64.0	23.30	2.0	12.9
DHI-060	60	63.0		2.15	1.50	2.00		64.2		5.2		2.5	11.25	4.5	62.0	24.20	2.0	12.7
DHI-062	62	65.0		2.15	1.50	2.00		66.2		5.2		2.5	11.75	4.5	60.0	25.00	2.0	12.3
DHI-065	65	68.0		2.65	1.50	2.50		69.2		5.7		2.5	16.25	4.5	122.0	25.80	2.5	20.6
DHI-067	67	70.0		2.65	1.50	2.50		71.5		5.7		2.5	17.30	4.5	122.0	26.80	2.5	20.8
DHI-068	68	71.0	+0.35	2.65	1.50	2.50	-0.08	72.5	+1.30 -0.54	5.7	±0.3	2.5	17.75	4.5	123.0	27.20	2.5	21.0
DHI-072	72	75.0		2.65	1.50	2.50		76.5		6.0		2.5	19.60	4.5	119.0	28.80	2.5	20.8
DHI-080	80	83.5		2.65	1.75	2.50		85.5		6.0		2.5	22.90	5.3	110.0	37.40	2.5	19.6
DHI-085	85	88.5		3.15	1.75	3.00		90.5		6.6		3.0	30.00	5.3	176.0	39.70	3.0	27.2
DHI-090	90	93.5		3.15	1.75	3.00		95.5		6.6		3.0	33.00	5.3	169.0	42.00	3.0	26.6
DHI-095	95	98.5		3.15	1.75	3.00		100.5		7.4		3.0	37.50	5.3	168.0	43.50	3.0	27.0
DHI-100	100	103.5		3.15	1.75	3.00		105.5		7.4		3.0	41.90	5.3	165.0	46.70	3.0	26.8

*** For plated rings, add 0.05 To the listed maximum thickness. Maximum ring thickness will be a minimum of 0.005 Less than the listed groove width (w) minimum.

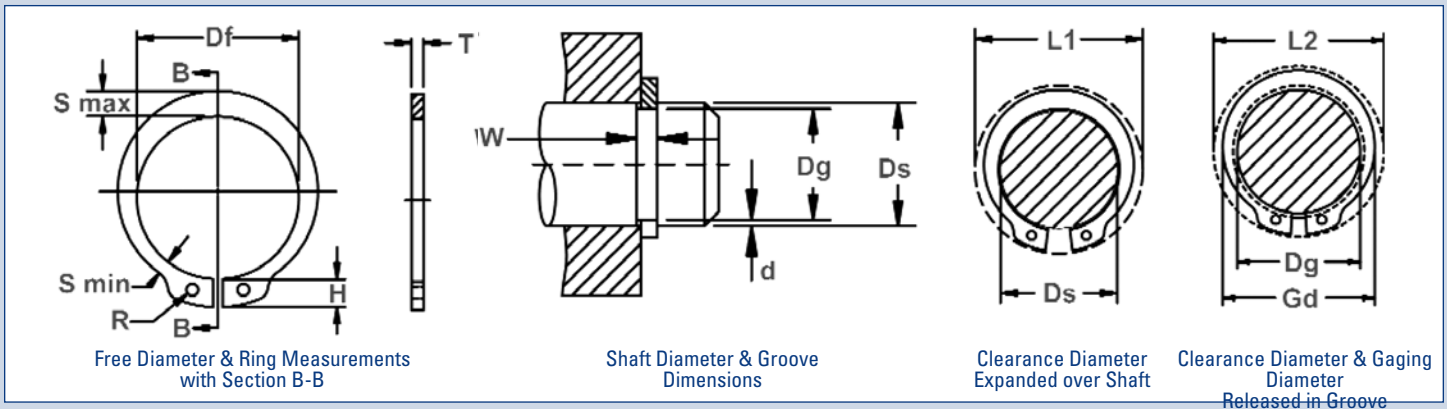
THIS HEAVY-DUTY RING AFFORDS THE USER HIGHER THRUST LOAD CAPACITY.



RING NO.	GROOVE SIZE						RING SIZE & WEIGHT							SUPPLEMENTARY DATA					
	DIAMETER		WIDTH	DEPTH	THICKNESS ***		FREE DIAMETER		LUG HT.	MAX. SEC.	HOLE DIA.	WEIGHT	EDGE	THRUST LOAD Ring	THRUST LOAD Groove	Max. load w/ R/Ch. Max.			
	Dh	Dg	Tol.	W Min.	d	T	Tol.	Df	Tol.	H Max.	S Ref.	R Min.	kg/1000	Y Min.	Pr kN	Pg kN	R/Ch Max.	P'r kN	
DSR-020	20	21.0	+0.15	1.60	0.50	1.50	-0.06	21.5	+0.42 -0.21	4.5	2.4	2.0	1.4	1.5	16.2	5.4	1.0	5.8	
DHR-022	22	23.0		1.60	0.50	1.50		23.5		4.7	2.8	2.0	1.9	1.5	18.0	5.9	1.0	6.1	
DHR-024	24	25.2	+0.21	1.60	0.60	1.50	-0.06	25.9	+0.50 -0.25	4.9	3.0	2.0	2.0	1.8	21.7	7.7	1.0	7.2	
DHR-025	25	26.2		1.60	0.60	1.50		26.9		5.0	3.1	2.0	2.1	1.8	22.8	8.0	1.0	7.3	
DHR-026	26	27.2	+0.25	1.60	0.60	1.50	-0.07	27.9	+0.90 -0.39	5.1	3.1	2.0	2.3	1.8	21.6	8.4	1.0	7.2	
DHR-027	27	28.4		1.60	0.70	1.50		29.1		5.1	3.2	2.0	2.4	2.1	20.8	10.1	1.0	7.0	
DHR-028	28	29.4	+0.30	1.60	0.70	1.50	-0.08	30.1	+1.10 -0.46	5.3	3.2	2.0	2.5	2.1	20.8	10.5	1.0	7.0	
DHR-030	30	31.4		1.60	0.70	1.50		32.1		5.5	3.3	2.0	2.7	2.1	21.4	11.3	1.0	7.2	
DHR-032	32	33.7	+0.35	1.60	0.85	1.50	-0.10	34.4	+1.30 -0.54	5.7	3.4	2.0	2.9	2.6	21.4	14.6	1.0	7.3	
DHR-034	34	35.7		1.85	0.85	1.75		36.5		5.9	3.7	2.5	4.1	2.6	35.6	15.4	1.5	8.6	
DHR-035	35	37.0	+0.42	1.85	1.00	1.75	-0.11	37.8	+1.40 -0.58	6.0	3.8	2.5	4.5	3.0	36.6	18.8	1.5	8.7	
DHR-037	37	39.0		1.85	1.00	1.75		39.8		6.2	3.9	2.5	4.7	3.0	36.6	19.8	1.5	8.8	
DHR-038	38	40.0	+0.48	1.85	1.00	1.75	-0.12	40.8	+1.50 -0.64	6.3	3.9	2.5	4.8	3.0	38.3	22.5	1.5	9.1	
DHR-040	40	42.5		2.15	1.25	2.00		43.5		6.5	3.9	2.5	5.1	3.8	58.4	27.0	2.0	10.9	
DHR-042	42	44.5	+0.54	2.15	1.25	2.00	-0.13	45.5	+1.60 -0.70	6.7	4.1	2.5	5.6	3.8	58.5	28.4	2.0	11.0	
DHR-045	45	47.5		2.15	1.25	2.00		48.5		7.0	4.3	2.5	6.3	3.8	56.5	30.2	2.0	10.7	
DHR-047	47	49.5	+0.60	2.15	1.25	2.00	-0.14	50.5	+1.70 -0.76	7.2	4.4	2.5	6.7	3.8	57.0	31.4	2.0	10.8	
DHR-050	50	53.0		2.65	1.50	2.50		54.2		7.5	4.6	2.5	8.8	4.5	95.5	40.5	2.0	19.0	
DHR-052	52	55.0	+0.66	2.65	1.50	2.50	-0.15	56.2	+1.80 -0.82	7.7	4.7	2.5	9.9	4.5	94.6	42.0	2.0	18.8	
DHR-055	55	58.0		2.65	1.50	2.50		59.2		8.0	5.0	2.5	10.4	4.5	94.7	44.4	2.0	19.6	
DHR-060	60	63.0	+0.72	3.15	1.50	3.00	-0.16	64.2	+1.90 -0.88	8.5	5.4	2.5	15.9	4.5	137.0	48.3	2.0	29.2	
DHR-062	62	65.0		3.15	1.50	3.00		66.2		8.6	5.5	2.5	16.1	4.5	137.0	49.8	2.0	29.2	
DHR-064	64	67.0	+0.78	3.15	1.50	3.00	-0.17	68.2	+2.00 -0.94	8.7	5.6	3.0	16.5	4.5	137.0	51.4	2.0	30.0	
DHR-065	65	68.0		3.15	1.50	3.00		69.2		8.7	5.8	3.0	16.6	4.5	174.0	51.8	2.5	30.0	
DHR-068	68	71.0	+0.84	3.15	1.50	3.00	-0.18	72.5	+2.10 -1.00	8.8	6.1	3.0	17.2	4.5	174.0	54.5	2.5	30.6	
DHR-070	70	73.0		3.15	1.50	3.00		74.5		9.0	6.2	3.0	18.0	4.5	171.0	56.2	2.5	30.3	
DHR-072	72	75.0	+0.90	3.15	1.50	3.00	-0.19	76.5	+2.20 -1.06	9.2	6.4	3.0	21.7	4.5	172.0	58.0	2.5	30.3	
DHR-075	75	78.0		3.15	1.50	3.00		79.5		9.3	6.6	3.0	22.6	4.5	170.0	60.0	2.5	30.3	
DHR-080	80	83.5	+0.96	4.15	1.75	4.00	-0.20	85.5	+2.30 -1.12	9.5	7.0	3.0	33.2	5.3	308.0	74.6	2.5	56.0	
DHR-085	85	88.5		4.15	1.75	4.00		90.5		9.7	7.2	3.5	33.8	5.3	358.0	79.5	3.0	55.0	
DHR-090	90	93.5	+1.02	4.15	1.75	4.00	-0.21	95.5	+2.40 -1.18	10.0	7.6	3.5	41.3	5.3	354.0	84.0	3.0	56.0	
DHR-095	95	98.5		4.15	1.75	4.00		100.5		10.3	8.1	3.5	46.7	5.3	347.0	88.6	3.0	56.0	
DHR-100	100	103.5	+1.08	4.15	1.75	4.00	-0.22	105.5	+2.50	10.5	8.4	3.5	50.7	5.3	335.0	93.1	3.0	55.0	

*** For plated rings, add 0.05 To the listed maximum thickness. Maximum ring thickness will be a minimum of 0.005 Less than the listed groove width (w) minimum.

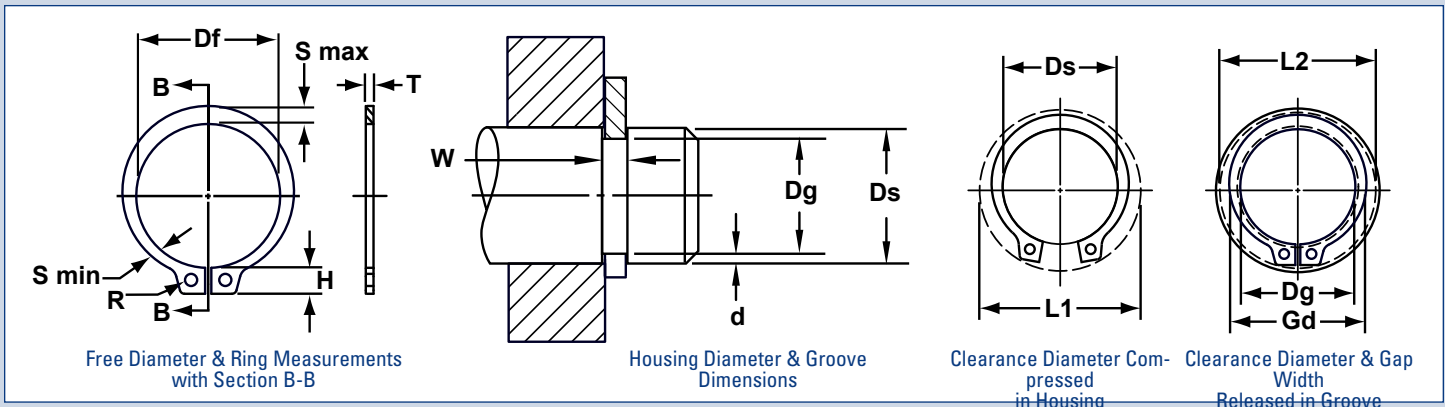
THIS HEAVY-DUTY RING AFFORDS THE USER HIGHER THRUST LOAD CAPACITY.



RING NO.	SHAFT DIA.	GROOVE SIZE					RING SIZE & WEIGHT								SUPPLEMENTARY DATA				
		DIAMETER		WIDTH	DEPTH	THICKNESS ***	FREE DIAMETER		LUG HT.	MAX. SEC.	HOLE DIA.	EDGE	Pr kN	Pg kN	R/Ch Max.	P'r kN	RPM Limits		
		Ds	Dg	Tol.	W Min.	d	T	Tol.	Df	H Max.	S Ref.							R Min.	kg/1000
DSR-012	12	11.5	-0.11	1.60	0.25	1.50	-0.06	11.0	+0.10 -0.36	3.4	1.8	1.7	0.75	0.7	11.30	1.53	1.0	4.5	75000
DSR-015	15	14.3		1.60	0.35	1.50		13.8		4.8	2.4	2.0	1.20	0.7	15.50	3.20	1.0	4.5	50000
DSR-016	16	15.2		1.60	0.40	1.50		14.7		5.0	2.5	2.0	1.20	1.2	16.70	3.26	1.0	4.5	48000
DSR-017	17	16.2		1.60	0.40	1.50		15.7		5.0	2.6	2.0	1.24	1.2	18.00	4.32	1.0	4.5	46000
DSR-018	18	17.0		1.60	0.50	1.50		16.5		5.1	2.7	2.0	1.54	1.5	26.60	5.50	1.5	5.8	43000
DSR-019	19	18.0	-0.13	1.60	0.50	1.50	17.5	+0.21 -0.42	5.1	2.7	2.0	1.45	1.5	26.60	5.78	1.5	5.9	28000	
DSR-020	20	19.0		1.85	0.50	1.75	18.5		5.5	3.0	2.0	2.25	1.5	36.30	5.60	1.5	8.2	32000	
DSR-022	22	21.0		1.85	0.50	1.75	20.5		6.0	3.1	2.0	2.30	1.5	36.00	5.60	1.5	8.1	29000	
DSR-024	24	22.9		1.85	0.55	1.75	22.2		6.3	3.2	2.0	2.70	1.7	34.20	7.95	1.5	7.6	29000	
DSR-025	25	23.9		2.15	0.55	2.00	23.2		6.4	3.4	2.0	3.35	1.7	45.00	8.30	1.5	10.3	25000	
DSR-026	26	24.4	-0.21	2.15	0.80	2.00	23.6	+0.25 -0.50	6.6	3.3	2.0	3.65	2.4	44.00	10.70	1.5	10.0	27000	
DSR-027	27	25.5		2.15	0.75	2.00	24.7		6.6	3.4	2.0	3.85	2.3	45.50	10.30	1.5	10.6	25000	
DSR-028	28	26.6		2.15	0.70	2.00	25.9		6.5	3.5	2.0	3.90	2.1	57.00	10.00	1.5	13.4	22000	
DSR-029	29	27.6		2.15	0.70	2.00	26.9		6.5	3.8	2.0	4.30	2.1	56.50	10.40	1.5	13.3	22000	
DSR-030	30	28.6		2.15	0.70	2.00	27.9		6.5	4.1	2.0	5.00	2.1	57.00	10.70	1.5	13.6	21000	
DSR-032	32	30.3	-0.25	2.15	0.85	2.00	29.6	+0.39 -0.90	6.5	4.1	2.5	5.40	2.5	57.00	12.90	1.5	13.6	20000	
DSR-034	34	32.3		2.65	0.85	2.50	31.5		6.6	4.2	2.5	6.80	2.5	87.00	16.40	1.5	15.6	18000	
DSR-035	35	33.0		2.65	1.00	2.50	32.2		6.7	4.2	2.5	7.10	3.0	86.00	17.80	1.5	15.4	17000	
DSR-036	36	34.0		2.65	1.00	2.50	33.2		6.7	4.2	2.5	7.50	3.0	101.50	20.10	2.0	18.3	16000	
DSR-038	38	36.0		2.65	1.00	2.50	35.2		6.8	4.3	2.5	8.00	3.0	101.00	21.20	2.0	18.6	15000	
DSR-040	40	37.5	-0.30	2.65	1.25	2.50	36.5	+0.46 -1.10	7.0	4.4	2.5	8.20	3.8	104.00	25.30	2.0	19.3	14000	
DSR-042	42	39.5		2.65	1.25	2.50	38.5		7.2	4.5	2.5	9.60	3.8	102.00	26.70	2.0	19.2	13000	
DSR-044	44	41.5		2.65	1.25	2.50	40.5		7.2	4.5	2.5	10.40	3.8	101.00	27.90	2.0	19.1	12000	
DSR-045	45	42.5		2.65	1.25	2.50	41.5		7.5	4.7	2.5	10.80	3.8	100.00	28.60	2.0	19.1	11000	
DSR-048	48	45.5		2.65	1.25	2.50	44.5		7.8	5.0	2.5	12.20	3.8	101.00	30.70	2.0	19.5	10000	
DSR-050	50	47.0	-0.35	3.15	1.50	3.00	45.8	+0.54 -1.30	8.0	5.1	2.5	14.80	4.5	165.00	38.20	2.0	32.4	11000	
DSR-052	52	49.0		3.15	1.50	3.00	47.8		8.2	5.2	2.5	15.40	4.5	165.00	39.70	2.5	26.0	10000	
DSR-055	55	52.0		3.15	1.50	3.00	50.8		8.5	5.4	2.5	17.00	4.5	161.00	42.00	2.5	25.6	9000	
DSR-058	58	55.0		3.15	1.50	3.00	53.8		8.8	5.6	2.5	19.40	4.5	160.00	44.30	2.5	26.0	8000	
DSR-060	60	57.0		3.15	1.50	3.00	55.8		9.0	5.8	2.5	20.00	4.5	156.00	46.00	2.5	25.4	8000	
DSR-065	65	62.0	-0.10	4.15	1.50	4.00	60.8	+0.54 -1.30	9.3	6.3	3.0	31.00	4.5	346.00	49.80	2.5	58.0	7000	
DSR-070	70	67.0		4.15	1.50	4.00	65.5		9.5	6.6	3.0	32.20	4.5	343.00	53.80	2.5	59.0	7000	
DSR-075	75	72.0		4.15	1.50	4.00	70.5		9.7	7.0	3.0	39.80	4.5	333.00	57.60	2.5	58.0	6000	
DSR-080	80	76.5		4.15	1.75	4.00	74.5		9.8	7.4	3.0	42.40	5.3	328.00	71.60	3.0	50.0	6000	
DSR-085	85	81.5		4.15	1.75	4.00	79.5		10.0	7.8	3.5	47.00	5.3	383.00	76.30	3.0	59.4	6000	
DSR-090	90	86.5	-0.35	4.15	1.75	4.00	84.5	+0.54 -1.30	10.2	10.2	3.5	55.60	5.3	386.00	80.80	3.0	61.0	5000	
DSR-095	95	91.5		4.15	1.75	4.00	89.5		10.2	8.6	3.5	61.20	5.3	378.00	85.50	3.5	52.0	5000	
DSR-100	100	96.5		4.15	1.75	4.00	94.5		10.5	9.0	3.5	72.00	5.3	368.00	90.00	3.5	51.6	4000	

*** For plated rings, add 0.05 To the listed maximum thickness. Maximum ring thickness will be a minimum of 0.005 Less than the listed groove width (w) minimum. All dimensions in millimeters.

ONCE INSTALLED IN THE GROOVE OF A HOUSING/BORE, THE SHOULDER HOLDS AN ASSEMBLY IN PLACE.



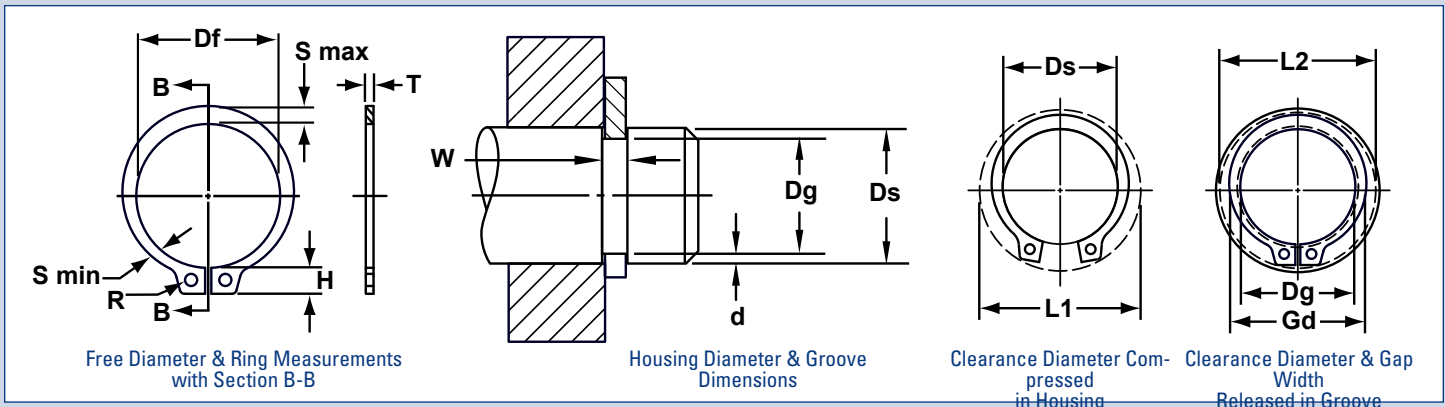
Ring No.	SHAFT DIA. (mm)	GROOVE SIZE					RING SIZE & WEIGHT							SUPPLEMENTARY DATA					
		DIAMETER		WIDTH	DEPTH	THICKNESS ***	FREE DIAMETER		LUG HT.	MAX. SEC.	HOLE DIA.	kg/1000	EDGE	Pr kN	Pg kN	R/Ch Max.	P'r kN	RPM Limits	
		Ds	Dg	TOL.	W Min.	d	T	Tol.	Df	H Max.	S Ref.								R Min.
DSH-003	3	2.8	-0.04	0.50	0.10	0.40	-0.05	2.7	+0.04 -0.15	1.9	0.8	1.0	0.017	0.3	0.47	0.1	0.5	0.27	360000
DSH-004	4	3.8		0.50	0.10	0.40		3.7		2.2	0.9	1.0	0.022	0.3	0.50	0.2	0.5	0.30	211000
DSH-005	5	4.8		0.70	0.10	0.60		4.7		2.5	1.1	1.0	0.066	0.3	1.00	0.2	0.5	0.80	154000
DSH-006	6	5.7	-0.06	0.80	0.15	0.70	-0.06 -0.18	5.6	+0.06 -0.18	2.7	1.3	1.2	0.084	0.5	1.45	0.4	0.5	0.90	114000
DSH-007	7	6.7		0.90	0.15	0.80		6.5		3.1	1.4	1.2	0.121	0.5	2.60	0.5	0.5	1.40	121000
DSH-008	8	7.6		0.90	0.20	0.80		7.4		3.2	1.5	1.2	0.158	0.6	3.00	0.8	0.5	2.00	96000
DSH-009	9	8.6	-0.11	1.10	0.20	1.00	+0.10 -0.36	8.4	+0.10 -0.36	3.3	1.7	1.2	0.300	0.6	3.50	0.9	0.5	2.40	85000
DSH-010	10	9.6		1.10	0.20	1.00		9.3		3.3	1.8	1.5	0.340	0.6	4.00	1.0	1.0	2.40	84000
DSH-011	11	10.5		1.10	0.25	1.00		10.2		3.3	1.8	1.5	0.410	0.8	4.50	1.4	1.0	2.40	70000
DSH-012	12	11.5	-0.13	1.10	0.25	1.00	+0.13 -0.42	11.0	+0.13 -0.42	3.3	1.8	1.7	0.500	0.8	5.00	1.5	1.0	2.40	75000
DSH-013	13	12.4		1.10	0.30	1.00		11.9		3.4	2.0	1.7	0.530	0.9	5.80	2.0	1.0	2.40	66000
DSH-014	14	13.4		1.10	0.30	1.00		12.9		3.5	2.1	1.7	0.640	0.9	6.40	2.1	1.0	2.40	58000
DSH-015	15	14.3	-0.15	1.10	0.35	1.00	+0.21 -0.42	13.8	+0.21 -0.42	3.6	2.2	1.7	0.670	1.1	6.90	2.6	1.0	2.40	50000
DSH-016	16	15.2		1.10	0.40	1.00		14.7		3.7	2.2	1.7	0.700	1.2	7.40	3.2	1.0	2.40	45000
DSH-017	17	16.2		1.10	0.40	1.00		15.7		3.8	2.3	1.7	0.820	1.2	8.00	3.4	1.0	2.40	41000
DSH-018	18	17.0	-0.21	1.30	0.50	1.20	+0.25 -0.50	16.5	+0.25 -0.50	3.9	2.4	2.0	1.110	1.5	17.00	4.5	1.5	3.75	39000
DSH-019	19	18.0		1.30	0.50	1.20		17.5		3.9	2.5	2.0	1.220	1.5	17.00	4.8	1.5	3.80	35000
DSH-020	20	19.0		1.30	0.50	1.20		18.5		4.0	2.6	2.0	1.300	1.5	17.10	5.0	1.5	3.85	32000
DSH-021	21	20.0	-0.21	1.30	0.50	1.20	+0.25 -0.50	19.5	+0.25 -0.50	4.1	2.7	2.0	1.420	1.5	16.80	5.3	1.5	3.75	29000
DSH-022	22	21.0		1.30	0.50	1.20		20.5		4.2	2.8	2.0	1.500	1.5	16.90	5.6	1.5	3.80	27000
DSH-023	23	22.0		1.30	0.50	1.20		21.5		4.3	2.9	2.0	1.630	1.5	16.60	5.9	1.5	3.80	25000
DSH-024	24	22.9	-0.21	1.30	0.55	1.20	+0.25 -0.50	22.2	+0.25 -0.50	4.4	3.0	2.0	1.770	1.7	16.10	6.7	1.5	3.65	27000
DSH-025	25	23.9		1.30	0.55	1.20		23.2		4.4	3.0	2.0	1.900	1.7	16.20	7.0	1.5	3.70	25000
DSH-026	26	24.9		1.30	0.55	1.20		24.2		4.5	3.1	2.0	1.960	1.7	16.10	7.3	1.5	3.70	24000
DSH-027	27	25.6	-0.21	1.30	0.70	1.20	+0.25 -0.50	24.9	+0.25 -0.50	4.6	3.1	2.0	2.080	2.1	16.40	9.6	1.5	3.80	22500
DSH-028	28	26.6		1.60	0.70	1.50		25.9		4.7	3.2	2.0	2.920	2.1	32.10	10.0	1.5	7.50	21200
DSH-029	29	27.6		1.60	0.70	1.50		26.9		4.8	3.4	2.0	3.200	2.1	31.80	10.3	1.5	7.45	20000
DSH-030	30	28.6	-0.21	1.60	0.70	1.50	+0.25 -0.50	27.9	+0.25 -0.50	5.0	3.5	2.0	3.320	2.1	32.10	10.7	1.5	7.65	18900
DSH-031	31	29.3		1.60	0.85	1.50		28.6		5.1	3.5	2.5	3.450	2.6	31.50	13.4	2.0	5.60	17900
DSH-032	32	30.3		1.60	0.85	1.50		29.6		5.2	3.6	2.5	3.540	2.6	31.20	13.8	2.0	5.55	16900
DSH-033	33	31.3	-0.21	1.60	0.85	1.50	+0.25 -0.50	30.5	+0.25 -0.50	5.2	3.7	2.5	3.690	2.6	31.60	14.3	2.0	5.65	17400
DSH-034	34	32.3		1.60	0.85	1.50		31.5		5.4	3.8	2.5	3.800	2.6	31.30	14.7	2.0	5.60	16100
DSH-035	35	33.0		1.60	1.00	1.50		32.2		5.6	3.9	2.5	4.000	3.0	30.80	17.8	2.0	5.55	15500

All dimensions in millimeters.

*The radius "r" on the load side must not exceed 0.1T.

*** For plated rings, add 0.05 To the listed maximum thickness. Maximum ring thickness will be a minimum of 0.005 Less than the listed groove width (w) minimum.

ONCE INSTALLED IN THE GROOVE OF A HOUSING/BORE, THE SHOULDER HOLDS AN ASSEMBLY IN PLACE.



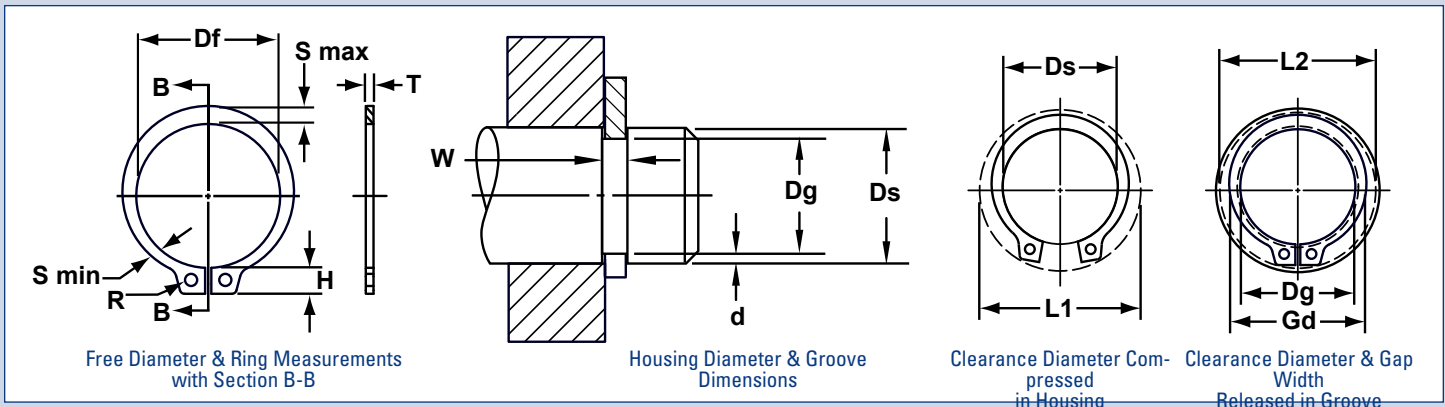
Ring No.	SHAFT DIA. (mm)	GROOVE SIZE					RING SIZE & WEIGHT							SUPPLEMENTARY DATA					
		DIAMETER		WIDTH	DEPTH	THICKNESS ***	FREE DIAMETER		LUG HT.	MAX. SEC.	HOLE DIA.	EDGE	Pr kN	Pg kN	R/Ch Max.	P'r kN	RPM Limits		
		Ds	Dg	TOL.	W Min.	d	T	Tol.	Df	Tol.	H Max.							S Ref.	R Min.
DSH-036	36	34.0	-0.25	1.85	1.00	1.75	-0.06	33.2	+0.25 -0.50	5.6	4.0	2.5	5.000	3.0	49.40	18.3	2.0	9.00	14500
DSH-037	37	35.0		1.85	1.00	1.75		34.2		5.7	4.1	2.5	5.370	3.0	50.00	18.8	2.0	9.15	14100
DSH-038	38	36.0		1.85	1.00	1.75		35.2		5.8	4.2	2.5	5.620	3.0	49.50	19.3	2.0	9.10	13600
DSH-039	39	37.0		1.85	1.00	1.75		36.0		5.9	4.3	2.5	5.850	3.0	49.80	19.9	2.0	9.25	14500
DSH-040	40	37.5		1.85	1.25	1.75		36.5		6.0	4.4	2.5	6.030	3.8	51.00	25.3	2.0	9.50	14300
DSH-041	41	38.5		1.85	1.25	1.75		37.5		6.2	4.5	2.5	6.215	3.8	50.10	26.0	2.0	9.40	13500
DSH-042	42	39.5		1.85	1.25	1.75		38.5		6.5	4.5	2.5	6.500	3.8	50.00	26.7	2.0	9.45	13000
DSH-044	44	41.5		1.85	1.25	1.75		40.5		6.6	4.6	2.5	7.000	3.8	48.50	28.0	2.0	9.20	11800
DSH-045	45	42.5		1.85	1.25	1.75		41.5		6.7	4.7	2.5	7.500	3.8	49.0	28.6	2.0	9.35	11400
DSH-046	46	43.5		1.85	1.25	1.75		42.5		6.7	4.8	2.5	7.600	3.8	48.9	29.4	2.0	9.40	10900
DSH-047	47	44.5	1.85	1.25	1.75	43.5	6.8	4.9	2.5	7.500	3.8	49.5	30.0	2.0	9.55	11000			
DSH-048	48	45.5	1.85	1.25	1.75	44.5	6.9	5.0	2.5	7.900	3.8	49.4	30.7	2.0	9.55	10000			
DSH-050	50	47.0	2.15	1.50	2.00	45.8	6.9	5.1	2.5	10.20	4.5	73.3	38.0	2.0	14.40	11000			
DSH-052	52	49.0	2.15	1.50	2.00	47.8	7.0	5.2	2.5	11.10	4.5	73.1	39.7	2.5	11.50	10000			
DSH-054	54	51.0	2.15	1.50	2.00	49.8	7.1	5.3	2.5	11.30	4.5	71.2	41.2	2.5	11.30	9000			
DSH-055	55	52.0	2.15	1.50	2.00	50.8	7.2	5.4	2.5	11.40	4.5	71.4	42.0	2.5	11.40	9000			
DSH-056	56	53.0	2.15	1.50	2.00	51.8	7.3	5.5	2.5	11.80	4.5	70.8	42.8	2.5	11.30	9000			
DSH-057	57	54.0	2.15	1.50	2.00	52.8	7.3	5.5	2.5	12.20	4.5	70.9	43.7	2.5	11.40	8000			
DSH-058	58	55.0	2.15	1.50	2.00	53.8	7.3	5.6	2.5	12.60	4.5	71.1	44.3	2.5	11.50	8000			
DSH-060	60	57.0	2.15	1.50	2.00	55.8	7.4	5.8	2.5	12.90	4.5	69.2	46.0	2.5	11.30	8000			
DSH-062	62	59.0	2.15	1.50	2.00	57.8	7.5	6.0	2.5	14.30	4.5	69.3	47.5	2.5	11.40	7000			
DSH-063	63	60.0	2.15	1.50	2.00	58.8	7.6	6.2	2.5	15.90	4.5	70.2	48.3	2.5	11.60	7000			
DSH-065	65	62.0	2.65	1.50	2.50	60.8	7.8	6.3	3.0	18.20	4.5	135.0	49.8	2.5	22.70	7000			
DSH-067	67	64.0	2.65	1.50	2.50	62.5	7.9	6.4	3.0	20.30	4.5	136.0	51.3	2.5	23.00	7000			
DSH-068	68	65.0	2.65	1.50	2.50	63.5	8.0	6.5	3.0	21.80	4.5	135.0	52.2	2.5	23.10	7000			
DSH-070	70	67.0	2.65	1.50	2.50	65.5	8.1	6.6	3.0	22.00	4.5	134.0	53.8	2.5	23.00	7000			
DSH-072	72	69.0	2.65	1.50	2.50	67.5	8.2	6.8	3.0	22.50	4.5	131.0	55.3	2.5	22.80	6000			
DSH-075	75	72.0	2.65	1.50	2.50	70.5	8.4	7.0	3.0	24.60	4.5	130.0	57.6	2.5	22.80	6000			
DSH-077	77	74.0	2.65	1.50	2.50	72.5	8.5	7.2	3.0	25.70	4.5	131.0	59.3	3.0	19.70	6000			
DSH-078	78	75.0	2.65	1.50	2.50	73.5	8.6	7.3	3.0	26.20	4.5	131.0	60.0	3.0	19.70	5000			
DSH-080	80	76.5	2.65	1.75	2.50	74.5	8.6	7.4	3.0	27.30	5.3	128.0	71.6	3.0	19.50	6000			
DSH-082	82	78.5	2.65	1.75	2.50	76.5	8.7	8.7	3.0	31.20	5.3	128.0	73.5	3.0	19.60	6000			
DSH-085	85	81.5	-0.35	3.15	1.75	3.00	-0.08	79.5	8.7	7.8	3.5	36.40	5.3	215.0	76.2	3.0	33.40	6000	

All dimensions in millimeters.

*The radius "r" on the load side must not exceed 0.1T.

*** For plated rings, add 0.05 To the listed maximum thickness. Maximum ring thickness will be a minimum of 0.005 Less than the listed groove width (w) minimum.

ONCE INSTALLED IN THE GROOVE OF A HOUSING/BORE, THE SHOULDER HOLDS AN ASSEMBLY IN PLACE.



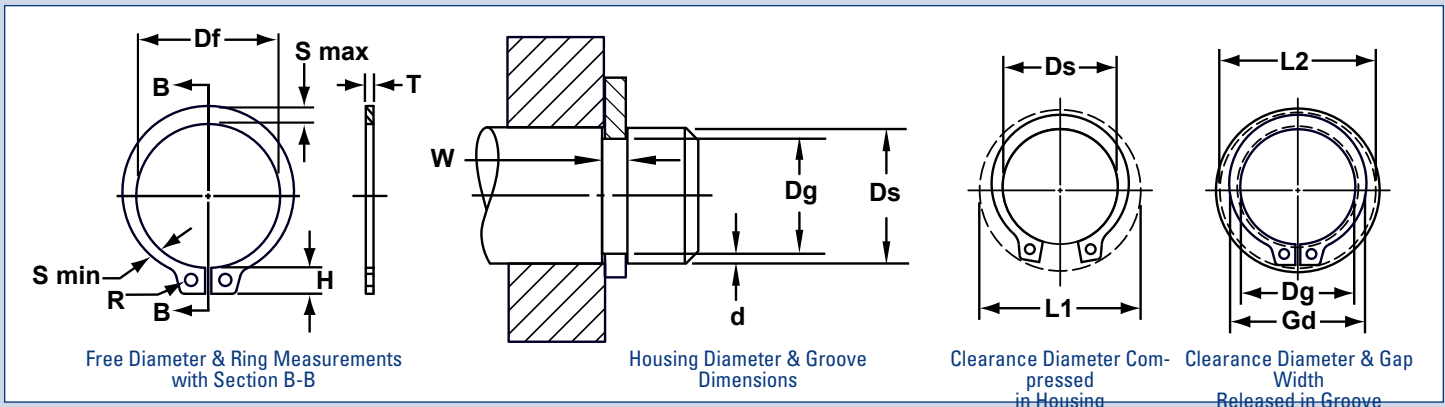
Ring No.	SHAFT DIA. (mm)	GROOVE SIZE					RING SIZE & WEIGHT							SUPPLEMENTARY DATA								
		DIAMETER		WIDTH	DEPTH	THICKNESS ***	FREE DIAMETER		LUG HT.	MAX. SEC.	HOLE DIA.	kg/1000	EDGE			Max. Load w/Ch Max.	RPM Limits					
		Ds	Dg	TOL.	W Min.	d	T	Tol.	Df	Tol.	H Max.		S Ref.	R Min.	Y Min.			Pr kN	Pg kN	R/Ch Max.	P'r kN	
DSH-087	87	83.5	-0.35	3.15	1.75	3.00	-0.08	81.5		8.8	7.9	3.5	39.80	5.3	222.0	78.2	3.0	34.80	5000			
DSH-088	88	84.5		3.15	1.75	3.00		82.5		8.8	8.0	3.5	41.20	5.3	221.0	79.0	3.0	34.80	5000			
DSH-090	90	86.5		3.15	1.75	3.00		84.5		8.8	8.2	3.5	44.50	5.3	217.0	80.0	3.0	34.40	5000			
DSH-092	92	88.5		3.15	1.75	3.00		86.5		9.0	8.4	3.5	46.00	5.3	217.0	82.0	3.5	29.60	5000			
DSH-095	95	91.5		3.15	1.75	3.00		89.5		9.4	8.6	3.5	49.00	5.3	212.0	85.0	3.5	29.20	5000			
DSH-097	97	93.5		3.15	1.75	3.00		91.5		9.4	8.8	3.5	50.20	5.3	211.0	87.0	3.5	29.40	4000			
DSH-098	98	94.5		3.15	1.75	3.00		91.5		9.4	8.8	3.5	50.20	5.3	208.0	88.0	3.5	29.00	4000			
DSH-100	100	96.5		3.15	1.75	3.00		94.5		9.6	9.0	3.5	53.70	5.3	206.0	90.0	3.5	29.00	4000			
DSH-102	102	98.0		-0.54	4.15	2.00		4.00		-0.10	95.0		9.7	9.2	3.5	78.00	6.0	482.0	104.0	3.5	68.50	5000
DSH-105	105	101.0			4.15	2.00		4.00			98.0		9.9	9.9	3.5	80.00	6.0	471.0	107.0	3.5	67.70	5000
DSH-107	107	103.0	4.15		2.00	4.00	100.0	+0.54	10.0		9.5		3.5	81.00	6.0	465.0	110.0	3.5	67.30	5000		
DSH-108	108	104.0	4.15		2.00	4.00	100.0	-1.30	10.0		9.5		3.5	81.00	6.0	459.0	111.0	3.5	66.30	4000		
DSH-110	110	106.0	4.15		2.00	4.00	103.0	10.1	9.6		3.5		82.00	6.0	457.0	113.0	3.5	66.90	4000			
DSH-112	112	108.0	4.15		2.00	4.00	105.0	10.3	9.7		3.5		83.00	6.0	451.0	115.0	3.5	66.60	4000			
DSH-115	115	111.0	4.15		2.00	4.00	108.0	10.6	9.8		3.5		84.00	6.0	438.0	118.0	3.5	65.50	4000			
DSH-117	117	113.0	4.15		2.00	4.00	110.0	10.8	10.0		3.5		85.00	6.0	437.0	120.0	3.5	65.60	4000			
DSH-118	118	114.0	4.15		2.00	4.00	110.0	10.8	10.0		3.5		85.00	6.0	430.0	121.0	3.5	64.80	4000			
DSH-120	120	116.0	4.15		2.00	4.00	113.0	11.0	10.2		3.5		86.00	6.0	424.0	123.0	3.5	64.50	4000			
DSH-122	122	118.0	4.15	2.00	4.00	115.0	11.2	10.3	4.0	88.00	6.0	418.0	125.0	4.0	56.60	4000						
DSH-125	125	121.0	-0.63	4.15	2.00	4.00	-0.10	118.0		11.4	10.4	4.0	90.00	6.0	411.0	128.0	4.0	56.50	3000			
DSH-127	127	123.0		4.15	2.00	4.00		120.0		11.4	10.5	4.0	95.00	6.0	407.0	130.0	4.0	56.10	3000			
DSH-128	128	124.0		4.15	2.00	4.00		120.0		11.4	10.5	4.0	95.00	6.0	401.0	131.0	4.0	55.60	3000			
DSH-130	130	126.0		4.15	2.00	4.00		123.0		11.6	10.7	4.0	100.0	6.0	395.0	134.0	4.0	55.20	3000			
DSH-132	132	128.0		4.15	2.00	4.00		125.0		11.7	10.8	4.0	103.0	6.0	396.0	136.0	4.0	55.60	3000			
DSH-135	135	131.0		4.15	2.00	4.00		128.0		11.8	11.0	4.0	104.0	6.0	389.0	139.0	4.0	55.40	3000			
DSH-137	137	133.0		4.15	2.00	4.00		130.0		11.9	11.0	4.0	107.0	6.0	380.0	141.0	4.0	54.40	3000			
DSH-138	138	134.0		4.15	2.00	4.00		130.0		11.9	11.0	4.0	107.0	6.0	381.0	142.0	4.0	54.70	3000			
DSH-140	140	136.0		4.15	2.00	4.00		133.0		12.0	11.2	4.0	110.0	6.0	376.0	144.0	4.0	54.40	3000			
DSH-142	142	138.0		4.15	2.00	4.00		135.0		12.1	11.3	4.0	112.0	6.0	370.0	146.0	4.0	54.00	3000			
DSH-145	145	141.0	4.15	2.00	4.00	138.0	12.2	11.5	4.0	115.0	6.0	367.0	149.0	4.0	53.80	3000						
DSH-147	147	143.0	4.15	2.00	4.00	140.0	12.3	11.6	4.0	116.0	6.0	361.0	151.0	4.0	53.50	3000						
DSH-148	148	144.0	4.15	2.00	4.00	140.0	12.3	11.6	4.0	116.0	6.0	357.0	152.0	4.0	53.00	2000						
DSH-150	150	145.0	4.15	2.50	4.00	142.0	13.0	11.8	4.0	120.0	7.5	357.0	193.0	4.0	53.40	2000						

All dimensions in millimeters.

*The radius "r" on the load side must not exceed 0.1T.

*** For plated rings, add 0.05 To the listed maximum thickness. Maximum ring thickness will be a minimum of 0.005 Less than the listed groove width (w) minimum.

ONCE INSTALLED IN THE GROOVE OF A HOUSING/BORE, THE SHOULDER HOLDS AN ASSEMBLY IN PLACE.



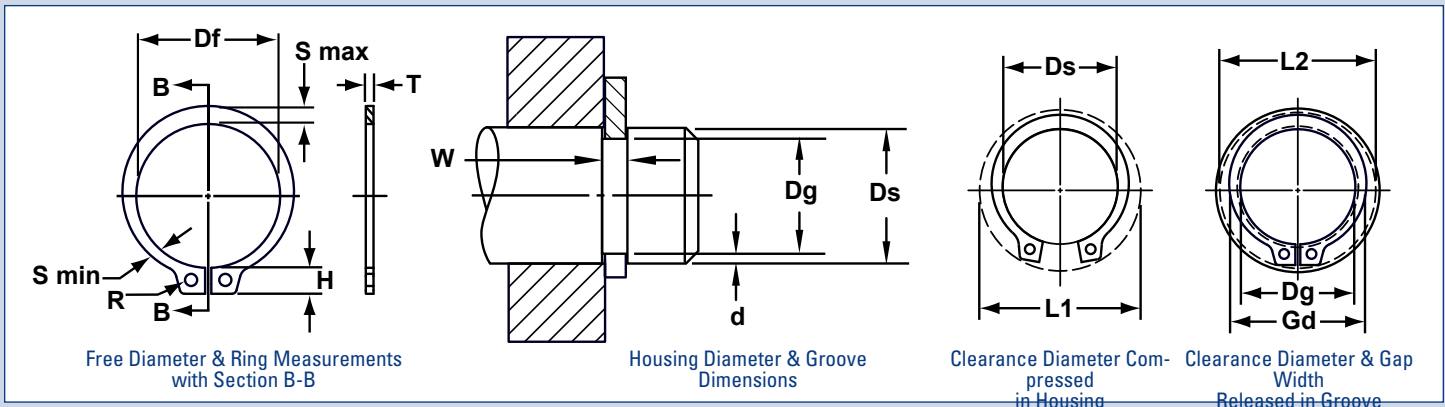
Ring No.	SHAFT DIA. (mm)	GROOVE SIZE					RING SIZE & WEIGHT							SUPPLEMENTARY DATA						
		DIAMETER		WIDTH	DEPTH	THICKNESS ***	FREE DIAMETER		LUG HT.	MAX. SEC.	HOLE DIA.	EDGE				Max. Load w/Ch Max.	RPM Limits			
		Ds	Dg	TOL.	W Min.	d	T	Tol.	Df	Tol.	H Max.	S Ref.	R Min.	kg/1000	Y Min.	Pr kN	Pg kN	R/Ch Max.	P'r kN	
DSH-152	152	147.0	-0.63	4.15	2.50	4.00	-0.10	143.0	+0.63 -1.50	13.0	11.9	4.0	128.0	7.5	356.0	195.0	4.0	53.10	3000	
DSH-155	155	150.0		4.15	2.50	4.00		146.0		13.0	12.0	4.0	135.0	7.5	352.0	199.0	4.0	52.60	3000	
DSH-157	157	152.0		4.15	2.50	4.00		148.0		13.1	12.0	4.0	140.0	7.5	352.0	202.0	4.0	52.50	3000	
DSH-158	158	153.0		4.15	2.50	4.00		148.0		13.1	12.0	4.0	140.0	7.5	353.0	203.0	4.0	52.70	3000	
DSH-160	160	155.0		4.15	2.50	4.00		151.0		13.3	12.2	4.0	150.0	7.5	349.0	206.0	4.0	52.20	3000	
DSH-162	162	157.0		4.15	2.50	4.00		152.5		13.3	12.3	4.0	155.0	7.5	348.0	208.0	5.0	41.70	3000	
DSH-165	165	160.0		4.15	2.50	4.00		155.5		13.5	12.5	4.0	160.0	7.5	345.0	212.0	5.0	41.40	3000	
DSH-167	167	162.0		4.15	2.50	4.00		157.5		13.5	12.9	4.0	163.0	7.5	354.0	215.0	5.0	42.50	3000	
DSH-168	168	163.0		4.15	2.50	4.00		157.5		13.5	12.9	4.0	163.0	7.5	353.0	216.0	5.0	42.40	2000	
DSH-105	105	101.0		4.15	2.00	4.00		98.0		9.9	9.9	3.5	80.00	6.0	471.0	107.0	3.5	67.70	5000	
DSH-170	170	165.0		4.15	2.50	4.00		160.5		13.5	12.9	4.0	170.0	7.5	349.0	219.0	5.0	41.90	2000	
DSH-172	172	167.0		4.15	2.50	4.00		160.5		13.5	12.9	4.0	170.0	7.5	344.0	221.0	5.0	41.30	2000	
DSH-175	175	170.0		4.15	2.50	4.00		165.5		13.5	12.9	4.0	180.0	7.5	340.0	225.0	5.0	40.70	2000	
DSH-177	177	172.0		4.15	2.50	4.00		167.5		14.2	13.5	4.0	183.0	7.5	335.0	228.0	5.0	40.20	2000	
DSH-178	178	173.0		4.15	2.50	4.00		167.5		14.2	13.5	4.0	183.0	7.5	349.0	229.0	5.0	42.00	2000	
DSH-180	180	175.0		4.15	2.50	4.00		170.5		14.2	13.5	4.0	190.0	7.5	345.0	232.0	5.0	41.40	2000	
DSH-182	182	177.0		4.15	2.50	4.00		170.5		14.2	13.5	4.0	190.0	7.5	341.0	235.0	5.0	41.00	2000	
DSH-185	185	180.0		4.15	2.50	4.00		175.5		14.2	13.5	4.0	200.0	7.5	336.0	238.0	5.0	40.40	2000	
DSH-187	187	182.0	4.15	2.50	4.00	177.5	14.2	14.0	4.0	203.0	7.5	338.0	241.0	5.0	40.50	2000				
DSH-188	188	183.0	4.15	2.50	4.00	177.5	14.2	14.0	4.0	203.0	7.5	337.0	242.0	5.0	40.60	2000				
DSH-190	190	185.0	4.15	2.50	4.00	180.5	14.2	14.0	4.0	210.0	7.5	333.0	245.0	5.0	40.00	2000				
DSH-192	192	187.0	4.15	2.50	4.00	180.5	14.2	14.0	4.0	210.0	7.5	330.0	248.0	5.0	39.60	2000				
DSH-195	195	190.0	4.15	2.50	4.00	185.5	14.2	14.0	4.0	220.0	7.5	325.0	251.0	5.0	39.00	2000				
DSH-197	197	192.0	4.15	2.50	4.00	187.5	14.2	14.0	4.0	223.0	7.5	322.0	254.0	5.0	38.60	2000				
DSH-198	198	193.0	4.15	2.50	4.00	187.5	14.2	14.0	4.0	223.0	7.5	322.0	255.0	5.0	38.70	2000				
DSH-200	200	195.0	4.15	2.50	4.00	190.5	14.2	14.0	4.0	230.0	7.5	319.0	258.0	5.0	38.30	2000				
DSH-202	202	196.0	-0.72	5.15	3.00	5.00	190.0	14.2	14.0	4.0	235.0	9.0	624.0	312.0	6.0	62.50	2000			
DSH-205	205	199.0	5.15	3.00	5.00	193.0	193.0	+0.72	14.2	14.0	4.0	243.0	9.0	611.0	317.0	6.0	61.30	2000		
DSH-207	207	201.0	5.15	3.00	5.00	193.0	193.0	14.2	14.0	4.0	243.0	9.0	608.0	320.0	6.0	60.90	2000			
DSH-208	208	202.0	5.15	3.00	5.00	193.0	193.0	14.2	14.0	4.0	243.0	9.0	605.0	321.0	6.0	60.50	2000			
DSH-210	210	204.0	5.15	3.00	5.00	198.0	198.0	-0.12	14.2	14.0	4.0	248.0	9.0	598.0	325.0	6.0	59.90	2000		
DSH-212	212	206.0	5.15	3.00	5.00	198.0	198.0	14.2	14.0	4.0	248.0	9.0	593.0	328.0	6.0	59.50	2000			
DSH-215	215	209.0	5.15	3.00	5.00	203.0	203.0	14.2	14.0	4.0	260.0	9.0	585.0	332.0	6.0	58.50	2000			
DSH-217	217	211.0	5.15	3.00	5.00	203.0	203.0	14.2	14.0	4.0	260.0	9.0	580.0	336.0	6.0	58.10	2000			
DSH-218	218	212.0	5.15	3.00	5.00	203.0	203.0	14.2	14.0	4.0	260.0	9.0	577.0	337.0	6.0	57.80	2000			

All dimensions in millimeters.

*The radius "r" on the load side must not exceed 0.1T.

*** For plated rings, add 0.05 To the listed maximum thickness. Maximum ring thickness will be a minimum of 0.005 Less than the listed groove width (w) minimum.

ONCE INSTALLED IN THE GROOVE OF A HOUSING/BORE, THE SHOULDER HOLDS AN ASSEMBLY IN PLACE.



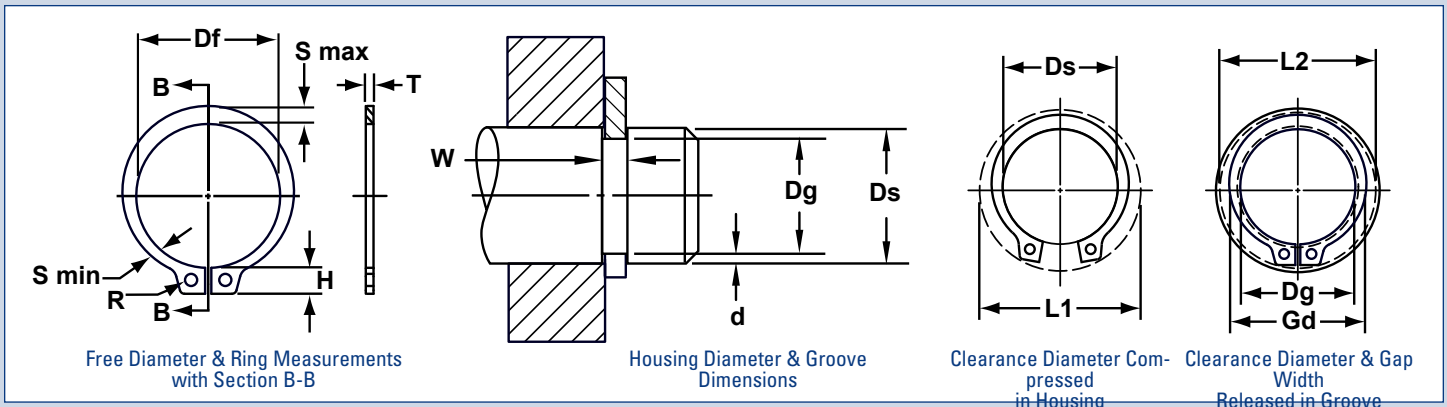
Ring No.	SHAFT DIA. (mm)	GROOVE SIZE					RING SIZE & WEIGHT							SUPPLEMENTARY DATA					
		DIAMETER		WIDTH	DEPTH	THICKNESS ***	FREE DIAMETER		LUG HT.	MAX. SEC.	HOLE DIA.	EDGE	Pr kN	Pg kN	R/Ch Max.	P'r kN	RPM Limits		
		Ds	Dg	TOL.	W Min.	d	T	Tol.	Df	Tol.	H Max.							S Ref.	R Min.
DSH-220	220	214.0	-0.72	5.15	3.00	5.00	-0.12	208.0	+0.72 -1.70	14.2	14.0	4.0	265.0	9.0	572.0	340.0	6.0	57.30	2000
DSH-222	222	216.0		5.15	3.00	5.00		208.0		14.2	14.0	4.0	265.0	9.0	567.0	343.0	6.0	56.80	2000
DSH-225	225	219.0		5.15	3.00	5.00		213.0		14.2	14.0	4.0	280.0	9.0	559.0	349.0	6.0	56.00	2000
DSH-227	227	221.0		5.15	3.00	5.00		213.0		14.2	14.0	4.0	280.0	9.0	555.0	351.0	6.0	55.50	1000
DSH-228	228	222.0		5.15	3.00	5.00		213.0		14.2	14.0	4.0	280.0	9.0	552.0	353.0	6.0	55.40	1000
DSH-230	230	224.0		5.15	3.00	5.00		218.0		14.2	14.0	4.0	290.0	9.0	548.0	356.0	6.0	55.00	1000
DSH-232	232	226.0		5.15	3.00	5.00		218.0		14.2	14.0	4.0	290.0	9.0	543.0	359.0	6.0	54.50	1000
DSH-235	235	229.0		5.15	3.00	5.00		223.0		14.2	14.0	4.0	305.0	9.0	537.0	364.0	6.0	53.80	1000
DSH-237	237	231.0		5.15	3.00	5.00		223.0		14.2	14.0	4.0	305.0	9.0	532.0	367.0	6.0	53.40	1000
DSH-238	238	232.0		5.15	3.00	5.00		223.0		14.2	14.0	4.0	305.0	9.0	530.0	369.0	6.0	53.00	1000
DSH-240	240	234.0	5.15	3.00	5.00	228.0	14.2	14.0	4.0	310.0	9.0	530.0	372.0	6.0	53.00	1000			
DSH-242	242	236.0	5.15	3.00	5.00	228.0	14.2	14.0	4.0	310.0	9.0	520.0	375.0	6.0	52.20	1000			
DSH-245	245	239.0	5.15	3.00	5.00	233.0	14.2	14.0	4.0	325.0	9.0	515.0	380.0	6.0	51.50	1000			
DSH-247	247	241.0	5.15	3.00	5.00	233.0	14.2	14.0	4.0	325.0	9.0	511.0	383.0	6.0	51.20	1000			
DSH-248	248	242.0	5.15	3.00	5.00	233.0	14.2	14.0	4.0	325.0	9.0	508.0	385.0	6.0	50.90	1000			
DSH-250	250	244.0	5.15	3.00	5.00	238.0	14.2	14.0	4.0	335.0	9.0	504.0	388.0	6.0	50.50	1000			
DSH-252	252	244.0	5.15	4.00	5.00	238.0	16.2	16.0	5.0	335.0	12.0	563.0	519.0	6.0	56.40	1000			
DSH-255	255	247.0	5.15	4.00	5.00	240.0	16.2	16.0	5.0	348.0	12.0	557.0	525.0	6.0	55.70	1000			
DSH-257	257	249.0	5.15	4.00	5.00	240.0	16.2	16.0	5.0	348.0	12.0	551.0	529.0	6.0	55.20	1000			
DSH-258	258	250.0	5.15	4.00	5.00	240.0	16.2	16.0	5.0	348.0	12.0	550.0	531.0	6.0	55.10	1000			
DSH-260	260	252.0	5.15	4.00	5.00	245.0	16.2	16.0	5.0	355.0	12.0	540.0	535.0	6.0	54.60	1000			
DSH-262	262	254.0	5.15	4.00	5.00	245.0	16.2	16.0	5.0	355.0	12.0	542.0	540.0	6.0	54.40	1000			
DSH-265	265	257.0	5.15	4.00	5.00	250.0	16.2	16.0	5.0	370.0	12.0	536.0	546.0	6.0	53.70	1000			
DSH-267	267	259.0	5.15	4.00	5.00	250.0	16.2	16.0	5.0	370.0	12.0	532.0	550.0	6.0	53.30	1000			
DSH-268	268	260.0	5.15	4.00	5.00	250.0	16.2	16.0	5.0	370.0	12.0	529.0	553.0	6.0	53.00	1000			
DSH-270	270	262.0	5.15	4.00	5.00	255.0	16.2	16.0	5.0	375.0	12.0	525.0	556.0	6.0	52.50	1000			
DSH-272	272	264.0	5.15	4.00	5.00	255.0	16.2	16.0	5.0	375.0	12.0	522.0	560.0	6.0	52.00	1000			
DSH-275	275	267.0	5.15	4.00	5.00	260.0	16.2	16.0	5.0	390.0	12.0	516.0	566.0	6.0	51.00	1000			
DSH-277	277	269.0	5.15	4.00	5.00	260.0	16.2	16.0	5.0	390.0	12.0	513.0	571.0	6.0	51.00	1000			
DSH-278	278	270.0	5.15	4.00	5.00	260.0	16.2	16.0	5.0	390.0	12.0	510.0	574.0	6.0	51.00	1000			
DSH-280	280	272.0	5.15	4.00	5.00	265.0	16.2	16.0	5.0	398.0	12.0	508.0	576.0	6.0	50.00	1000			
DSH-282	282	274.0	5.15	4.00	5.00	265.0	16.2	16.0	5.0	398.0	12.0	503.0	580.0	6.0	50.00	1000			

All dimensions in millimeters.

*The radius "r" on the load side must not exceed 0.1T.

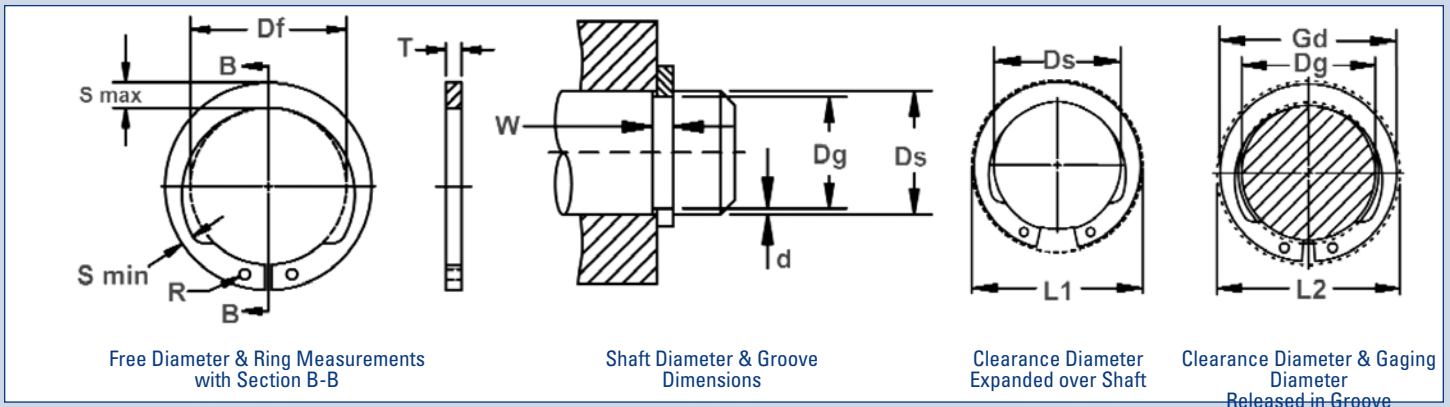
*** For plated rings, add 0.05 To the listed maximum thickness. Maximum ring thickness will be a minimum of 0.005 Less than the listed groove width (w) minimum.

ONCE INSTALLED IN THE GROOVE OF A HOUSING/BORE, THE SHOULDER HOLDS AN ASSEMBLY IN PLACE.



Ring No.	SHAFT DIA. (mm)	GROOVE SIZE				RING SIZE & WEIGHT								SUPPLEMENTARY DATA					
		DIAMETER		WIDTH	DEPTH	THICKNESS ***		FREE DIAMETER		LUG HT.	MAX. SEC.	HOLE DIA.	kg/1000	EDGE	Pr kN	Pg kN	R/Ch Max.	P'r kN	RPM Limits
		Ds	Dg	TOL.	W Min.	d	T	Tol.	Df	Tol.	H Max.	S Ref.		R Min.					
DSH-285	285	277.0	-0.81	5.15	4.00	5.00	-0.12	270.0	+0.81 -2.00	16.2	16.0	5.0	410.0	12.0	499.0	587.0	6.0	50.00	1000
DSH-287	287	279.0		5.15	4.00	5.00		270.0		16.2	16.0	5.0	410.0	12.0	494.0	591.0	6.0	49.00	1000
DSH-288	288	280.0		5.15	4.00	5.00		270.0		16.2	16.0	5.0	410.0	12.0	493.0	594.0	6.0	49.00	1000
DSH-290	290	282.0		5.15	4.00	5.00		275.0		16.2	16.0	5.0	418.0	12.0	490.0	599.0	6.0	49.00	1000
DSH-292	292	284.0		5.15	4.00	5.00		275.0		16.2	16.0	5.0	418.0	12.0	487.0	603.0	6.0	48.00	1000
DSH-295	295	287.0		5.15	4.00	5.00		280.0		16.2	16.0	5.0	430.0	12.0	481.0	609.0	6.0	48.00	1000
DSH-297	297	289.0		5.15	4.00	5.00		280.0		16.2	16.0	5.0	430.0	12.0	479.0	613.0	6.0	48.00	1000
DSH-298	298	290.0		5.15	4.00	5.00		280.0		16.2	16.0	5.0	430.0	12.0	476.0	615.0	6.0	47.00	1000
DSH-300	300	292.0		5.15	4.00	5.00		285.0		16.2	16.0	5.0	440.0	12.0	475.0	619.0	6.0	47.00	1000
DSH-305	305	295.0		6.20	5.00	6.00		288.0		20.2	20.0	6.0	738.0	15.0	1036.0	785.0	7.0	89.00	1000
DSH-310	310	300.0	6.20	5.00	6.00	293.0	20.2	20.0	6.0	750.0	15.0	1016.0	796.0	7.0	87.00	1000			
DSH-315	315	305.0	6.20	5.00	6.00	298.0	20.2	20.0	6.0	760.0	15.0	1007.0	811.0	7.0	86.00	1000			
DSH-320	320	310.0	6.20	5.00	6.00	303.0	20.2	20.0	6.0	770.0	15.0	988.0	825.0	7.0	85.00	1000			
DSH-325	325	315.0	6.20	5.00	6.00	308.0	20.2	20.0	6.0	787.0	15.0	975.0	837.0	7.0	83.00	1000			
DSH-330	330	320.0	6.20	5.00	6.00	313.0	20.2	20.0	6.0	800.0	15.0	958.0	850.0	7.0	82.00	1000			
DSH-335	335	325.0	6.20	5.00	6.00	318.0	20.2	20.0	6.0	826.0	15.0	945.0	864.0	7.0	81.00	1000			
DSH-340	340	330.0	6.20	5.00	6.00	323.0	20.2	20.0	6.0	840.0	15.0	932.0	876.0	7.0	80.00	1000			
DSH-345	345	335.0	6.20	5.00	6.00	328.0	20.2	20.0	6.0	845.0	15.0	917.0	890.0	7.0	79.00	1000			
DSH-350	350	340.0	6.20	5.00	6.00	333.0	20.2	20.0	6.0	850.0	15.0	906.0	903.0	7.0	77.00	1000			
DSH-355	355	345.0	6.20	5.00	6.00	338.0	20.2	20.0	6.0	865.0	15.0	894.0	916.0	7.0	76.00	1000			
DSH-360	360	350.0	6.20	5.00	6.00	343.0	20.2	20.0	6.0	880.0	15.0	880.0	928.0	7.0	75.00	1000			
DSH-365	365	355.0	-0.89	6.20	5.00	6.00	348.0	+0.90 -2.00	20.2	20.0	6.0	885.0	15.0	868.0	942.0	7.0	74.00	1000	
DSH-370	370	360.0	6.20	5.00	6.00	353.0	20.2	20.0	6.0	890.0	15.0	856.0	955.0	7.0	73.00	1000			
DSH-375	375	365.0	6.20	5.00	6.00	358.0	20.2	20.0	6.0	910.0	15.0	847.0	968.0	7.0	72.00	1000			
DSH-380	380	370.0	6.20	5.00	6.00	363.0	20.2	20.0	6.0	930.0	15.0	833.0	980.0	7.0	71.00	1000			
DSH-385	385	375.0	6.20	5.00	6.00	368.0	20.2	20.0	6.0	940.0	15.0	823.0	994.0	7.0	70.00	1000			
DSH-390	390	380.0	6.20	5.00	6.00	373.0	20.2	20.0	6.0	950.0	15.0	814.0	1008.0	7.0	70.00	1000			
DSH-395	395	385.0	6.20	5.00	6.00	378.0	20.2	20.0	6.0	990.0	15.0	803.0	1021.0	7.0	69.00	1000			
DSH-400	400	390.0	6.20	5.00	6.00	383.0	20.2	20.0	6.0	1040.0	15.0	793.0	1033.0	7.0	69.00	1000			

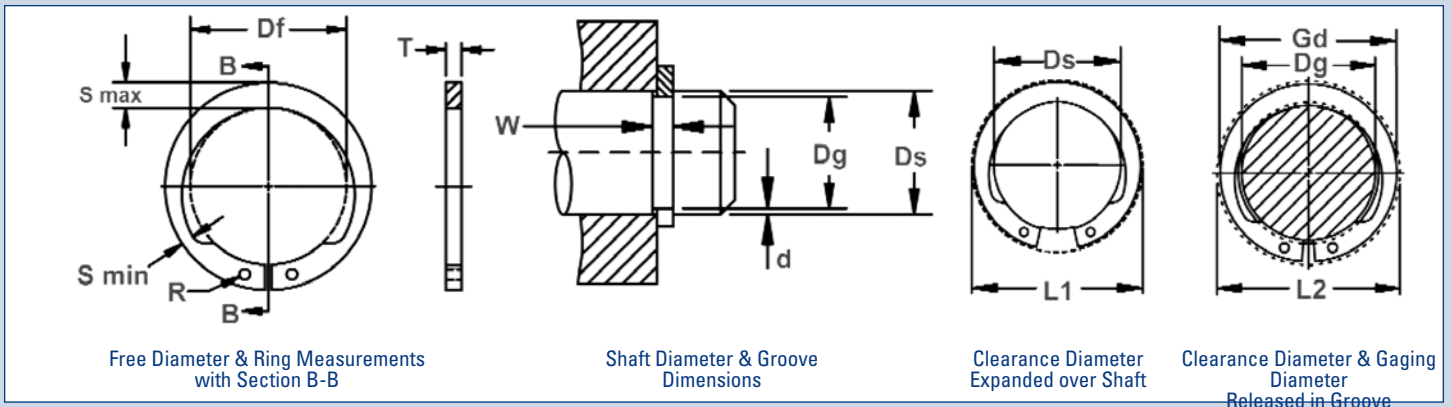
THE INVERTED POSITION OF THE LUGS AFFORDS GREATER CLEARANCE THAN THE BASIC EXTERNAL RETAINING RING.



RING NO.	SHAFT DIA.	GROOVE SIZE				RING SIZE & WEIGHT								SUPPLEMENTARY DATA					
		DIAMETER		WIDTH	DEPTH	THICKNESS ***		FREE DIAMETER		MAX. SEC.		HOLE DIA.		EDGE		Max. load w/ R/Ch. Max.		RPM Limits	
		Ds	Dg	Tol.	W Min.	d	T	Tol.	Df	Tol.	S	Tol.	R Min.	kg/1000	Y Min.	Pr kN	Pg kN		R/Ch Max.
DSI-012	12	11.5	-0.11	1.10	0.25	1.00	-0.06	11.00	+0.10 -0.36	2.1	±0.1	1.3	0.50	0.7	4.5	0.70	1.0	2.4	79000
DSI-013	13	12.4		1.10	0.30	1.00		11.90		2.1		1.3	0.56	0.9	5.5	0.90	1.0	2.4	64000
DSI-014	14	13.4		1.10	0.30	1.00		12.90		2.1		1.3	0.58	0.9	6.0	0.97	1.0	2.4	56000
DSI-015	15	14.3		1.10	0.35	1.00		13.80		2.2		1.3	0.66	1.0	6.5	1.22	1.0	2.4	50000
DSI-016	16	15.2		1.10	0.40	1.00		14.70		2.3		1.3	0.72	1.2	7.0	1.48	1.0	2.5	45000
DSI-017	17	16.2		1.10	0.40	1.00		15.70		2.4		1.3	0.81	1.2	8.1	1.57	1.0	2.6	41000
DSI-018	18	17.0		1.30	0.50	1.20		16.50		2.6		1.5	1.14	1.5	14.8	2.07	1.5	3.2	39000
DSI-020	20	19.0		1.30	0.50	1.20		18.50		2.8		1.5	1.43	1.5	14.6	2.30	1.5	3.1	32000
DSI-021	21	20.0	-0.15	1.30	0.50	1.20	-0.06	19.35	+0.13 -0.42	2.8	±0.1	1.5	1.53	1.5	14.4	2.42	1.5	3.1	29000
DSI-022	22	21.0		1.30	0.50	1.20		20.50		3.0		1.5	1.63	1.5	14.2	2.53	1.5	3.1	27000
DSI-023	23	22.0		1.30	0.50	1.20		21.50		3.1		1.5	1.78	1.5	14.0	2.66	1.5	3.1	25000
DSI-024	24	22.9		1.30	0.55	1.20		22.20		3.2		1.5	1.90	1.6	14.0	3.03	1.5	3.1	27000
DSI-025	25	23.9	-0.21	1.30	0.55	1.20	-0.06	23.20	+0.21 -0.42	3.4	±0.1	1.5	2.10	1.6	14.1	3.18	1.5	3.2	25000
DSI-026	26	24.9		1.30	0.55	1.20		24.20		3.5		1.5	2.18	1.6	14.1	3.30	1.5	3.2	25000
DSI-028	28	26.6		1.60	0.70	1.50		25.90		3.8		2.0	3.18	2.1	28.0	4.50	1.5	6.4	22000
DSI-030	30	28.6		1.60	0.70	1.50		27.90		3.9		2.0	3.58	2.1	27.5	4.86	1.5	6.3	19000
DSI-032	32	30.3		1.60	0.85	1.50		29.60		4.0		2.0	3.88	2.5	27.0	6.25	2.0	4.7	17000
DSI-034	34	32.3		1.60	0.85	1.50		31.50		3.5		2.0	3.60	2.5	26.6	6.67	2.0	4.6	15000
DSI-035	35	33.0		1.60	1.00	1.50		32.20		4.2		2.0	4.53	3.0	26.6	8.00	2.0	4.6	16000
DSI-038	38	35.8		1.85	1.10	1.75		34.50		4.5		2.0	5.50	3.3	42.0	10.60	2.0	7.8	15000

*** For plated rings, add 0.05 To the listed maximum thickness. Maximum ring thickness will be a minimum of 0.005 Less than the listed groove width (w) minimum.

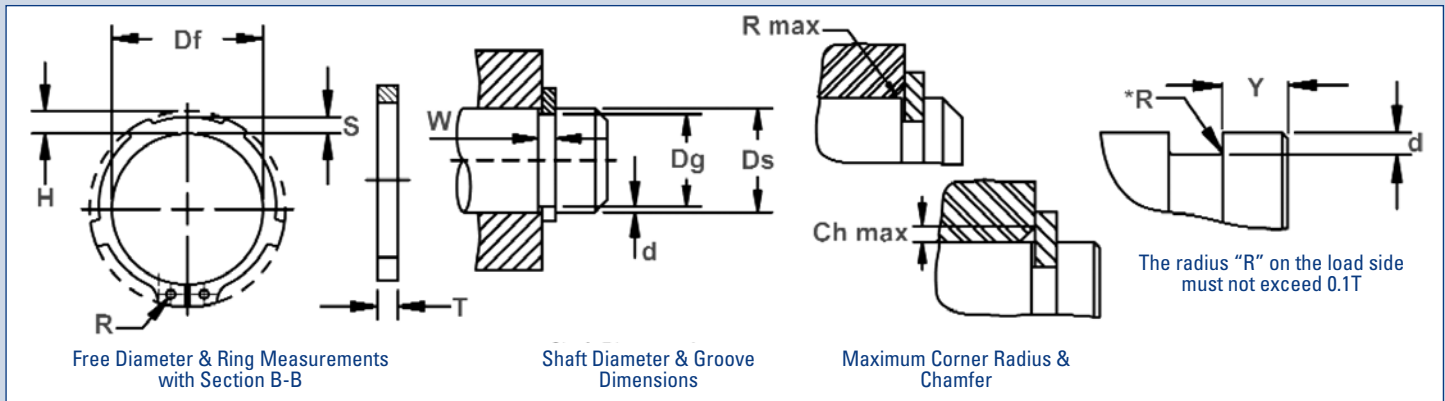
THE INVERTED POSITION OF THE LUGS AFFORDS GREATER CLEARANCE THAN THE BASIC EXTERNAL RETAINING RING.



RING NO.	SHAFT DIA.	GROOVE SIZE				RING SIZE & WEIGHT							SUPPLEMENTARY DATA						
		DIAMETER		WIDTH	DEPTH	THICKNESS ***		FREE DIAMETER		MAX. SEC.		HOLE DIA.	EDGE				Max. load w/ R/Ch. Max.	RPM Limits	
		Ds	Dg	Tol.	W Min.	d	T	Tol.	Df	Tol.	S	Tol.	R Min.	kg/1000	Y Min.	Pr kN	Pg kN		R/Ch Max.
DSI-040	40	37.5	-0.25	1.85	1.25	1.75	-0.06	36.50	+0.39	4.7	±0.2	2.0	6.49	3.8	42.0	12.60	2.0	7.8	15000
DSI-042	42	39.5		1.85	1.25	1.75		38.50		4.7		2.0	6.51	3.8	42.0	13.30	2.0	7.8	13000
DSI-045	45	42.5		1.85	1.25	1.75		41.50		4.7		2.0	7.80	3.8	41.5	14.30	2.0	7.8	11000
DSI-047	47	44.5		1.85	1.25	1.75		43.50		5.0		2.0	8.09	3.8	41.0	15.00	2.0	7.8	10000
DSI-048	48	45.5		1.85	1.25	1.75		44.50		5.2		2.0	8.48	3.8	41.0	15.80	2.0	7.8	10000
DSI-050	50	47.0	-0.30	2.15	1.50	2.00	-0.07	45.80	+0.46	5.2	±0.3	2.5	9.84	4.5	58.0	19.20	2.0	11.6	10000
DSI-055	55	52.0		2.15	1.50	2.00		50.80		5.8		2.5	11.42	4.5	58.0	21.00	2.5	9.3	9000
DSI-058	58	55.0		2.15	1.50	2.00		53.80		5.8		2.5	13.00	4.5	56.0	22.20	2.5	9.2	8000
DSI-060	60	57.0		2.15	1.50	2.00		55.80		5.8		2.5	13.80	4.5	55.5	23.00	2.5	9.1	7000
DSI-065	65	62.0		2.65	1.50	2.50		60.80		6.0		2.5	20.75	4.5	104.0	24.80	2.5	17.6	6000
DSI-070	70	67.0		2.65	1.50	2.50		65.50		6.5		2.5	23.70	4.5	103.0	27.00	2.5	17.6	6000
DSI-072	72	69.0		2.65	1.50	2.50		67.50		6.5		2.5	24.70	4.5	104.0	27.70	2.5	18.0	6000
DSI-075	75	72.0		2.65	1.50	2.50		70.50		6.5		2.5	27.50	4.5	100.0	29.20	2.5	17.7	5000
DSI-080	80	76.5		2.65	1.75	2.50		74.50		7.0		2.5	28.90	5.3	96.0	36.60	3.0	14.6	6000
DSI-082	82	78.5		2.65	1.75	2.50		76.50		7.0		2.5	29.65	5.3	100.0	37.40	3.0	15.4	5000
DSI-085	85	81.5	-0.35	3.15	1.75	3.00	-0.08	79.50	+0.54	7.4	±0.3	3.0	39.50	5.3	167.0	38.30	3.0	25.6	5000
DSI-087	87	83.5		3.15	1.75	3.00		81.50		7.4		3.0	40.00	5.3	164.0	39.20	3.0	25.5	5000
DSI-090	90	86.5		3.15	1.75	3.00		84.50		7.4		3.0	41.92	5.3	157.0	41.70	3.0	24.8	4000
DSI-095	95	91.5		3.15	1.75	3.00		89.50		8.0		3.0	47.70	5.3	152.0	42.70	3.5	21.0	4000
DSI-100	100	96.5		3.15	1.75	3.00		94.50		8.0		3.0	49.92	5.3	144.0	45.80	3.5	20.5	4000

*** For plated rings, add 0.05 To the listed maximum thickness. Maximum ring thickness will be a minimum of 0.005 Less than the listed groove width (w) minimum.

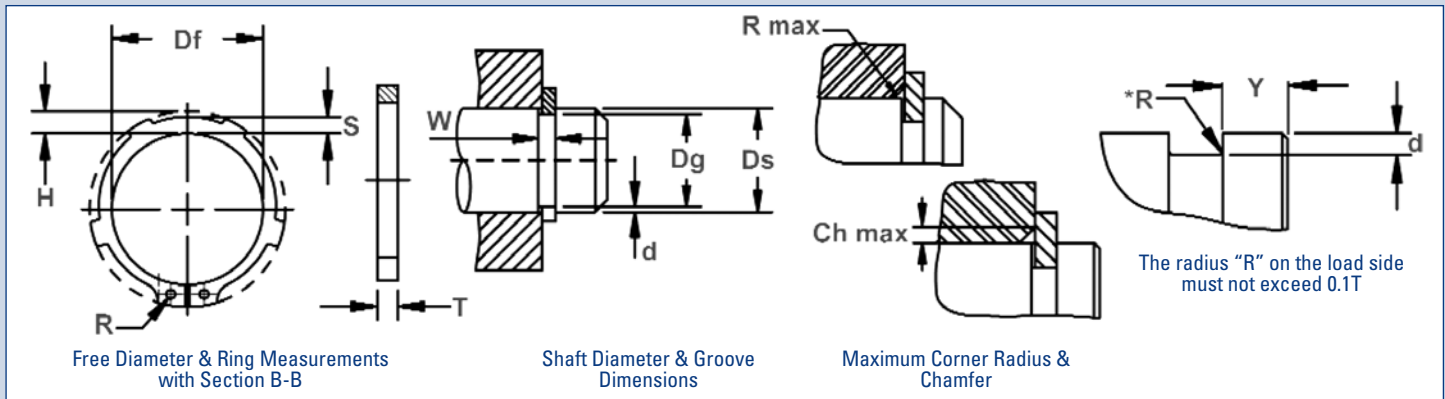
THE INCREASED SHOULDER OFFERED BY THE TEETH IS PARTICULARLY EFFECTIVE IN RETAINING APPLICATIONS WITH LARGE RADII OR CHAMFERS.



RING NO.	SHAFT	GROOVE SIZE					RING SIZE & WEIGHT							SUPPLEMENTARY DATA						
		DIAMETER		WIDTH	DEPTH	THICKNESS ***	FREE DIAMETER		LUG HT.	MAX. SEC.	HOLE DIA.	WEIGHT	EDGE MARGIN	THRUST LOAD Ring	THRUST LOAD Groove		Max. load w/ R/Ch. Max.	RPM Limits		
		Ds	Dg	Tol.	W	d	T	Tol.	Df	Tol.	H Max.	S	R Min.	kg/1000	Y	Pr kN	Pg kN	R/Ch Max.	P'r kN	
DST-016	16	15.2	-0.11	1.10	0.40	1.00	-0.06	14.7	+0.10	3.5	2.3	1.7	0.82	1.2	7.4	3.26	1.0	2.4	45000	
DST-017	17	16.2		1.10	0.40	1.00		15.7		3.6	2.4	1.7	0.93	1.2	8.0	3.46	1.0	2.4	41000	
DST-018	18	17.0		1.30	0.50	1.20		16.5		-0.36	3.7	2.5	2.0	1.24	1.5	17.0	4.58	1.5	3.7	38000
DST-019	19	18.0	-0.15	1.30	0.50	1.20	-0.06	17.5	+0.13	3.7	2.6	2.0	1.35	1.5	17.0	4.85	1.5	3.8	33000	
DST-020	20	19.0		1.30	0.50	1.20		18.5		3.8	2.6	2.0	1.45	1.5	17.1	5.06	1.5	3.8	30000	
DST-022	22	21.0		1.30	0.50	1.20		20.5		4.0	2.8	2.0	1.77	1.5	16.9	5.65	1.5	3.8	26000	
DST-023	23	22.0	-0.21	1.30	0.50	1.20	-0.06	21.5	-0.42	4.1	2.9	2.0	1.84	1.5	16.6	5.90	1.5	3.8	24000	
DST-024	24	22.9		1.30	0.55	1.20		22.2		4.2	3.0	2.0	1.98	1.6	16.1	6.75	1.5	3.6	26000	
DST-025	25	23.9		1.30	0.55	1.20		23.2		4.3	3.0	2.0	2.12	1.6	16.2	7.05	1.5	3.7	24000	
DST-026	26	24.9	-0.25	1.30	0.55	1.20	-0.06	24.2	+0.21	4.4	3.1	2.0	2.18	1.6	16.1	7.34	1.5	3.7	22000	
DST-028	28	26.6		1.60	0.70	1.50		25.9		4.5	3.3	2.0	3.15	2.1	32.1	10.00	1.5	7.5	20000	
DST-029	29	27.6		1.60	0.70	1.50		26.9		4.7	3.4	2.0	3.35	2.1	31.8	10.30	1.5	7.4	19000	
DST-030	30	28.6	-0.25	1.60	0.70	1.50	-0.06	27.9	-0.42	4.7	3.4	2.0	3.65	2.1	32.1	10.70	1.5	7.6	18000	
DST-032	32	30.3		1.60	0.85	1.50		29.6		5.0	3.6	2.5	4.00	2.5	31.2	13.80	2.0	5.5	16000	
DST-034	34	32.3		1.60	0.85	1.50		31.5		5.1	3.8	2.5	4.15	2.5	31.3	14.70	2.0	5.6	16000	
DST-035	35	33.0	-0.25	1.60	1.00	1.50	-0.06	32.2	+0.25	5.2	3.8	2.5	4.38	3.0	30.8	17.80	2.0	5.5	15000	
DST-037	37	35.0		1.85	1.00	1.75		34.2		-0.50	5.4	4.0	2.5	6.30	3.0	50.0	18.80	2.0	9.1	13000
DST-038	38	36.0		1.85	1.00	1.75		35.2		5.5	4.1	2.5	6.50	3.0	49.5	19.30	2.0	9.1	13000	
DST-040	40	37.5	-0.25	1.85	1.25	1.75	-0.06	36.5	+0.39	7.2	4.2	2.5	7.00	3.8	51.0	25.30	2.0	9.5	14000	
DST-042	42	39.5		1.85	1.25	1.75		38.5		7.2	4.5	2.5	7.50	3.8	50.0	26.70	2.0	9.4	13000	
DST-045	45	42.5		1.85	1.25	1.75		41.5		-0.90	7.2	4.6	2.5	8.50	3.8	49.0	28.60	2.0	9.3	11000
DST-047	47	44.5	-0.25	1.85	1.25	1.75	-0.06	43.5		7.2	4.8	2.5	8.70	3.8	49.5	30.00	2.0	9.5	10000	

*** For plated rings, add 0.05 To the listed maximum thickness. Maximum ring thickness will be a minimum of 0.005 Less than the listed groove width (w) minimum.

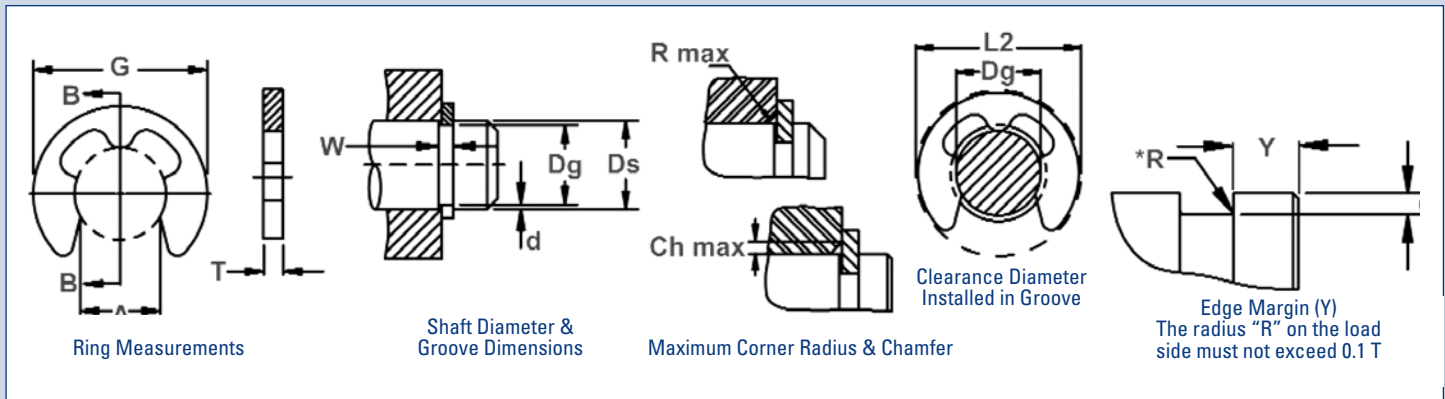
THE INCREASED SHOULDER OFFERED BY THE TEETH IS PARTICULARLY EFFECTIVE IN RETAINING APPLICATIONS WITH LARGE RADII OR CHAMFERS.



RING NO.	SHAFT	GROOVE SIZE						RING SIZE & WEIGHT						SUPPLEMENTARY DATA					
		DIAMETER		WIDTH	DEPTH	THICKNESS ***		FREE DIAMETER		LUG HT.	MAX. SEC.	HOLE DIA.	WEIGHT	EDGE MARGIN	THRUST LOAD Ring	THRUST LOAD Groove		Max. load w/ R/Ch. Max.	RPM Limits
		Ds	Dg	Tol.	W	d	T	Tol.	Df	Tol.	H Max.	S	R Min.	kg/1000	Y	Pr kN	Pg kN	R/Ch Max.	P'r kN
DST-048	48	45.5	-0.25	1.85	1.25	1.75	-0.06	44.5	+0.39 -0.90	7.2	4.9	2.5	8.90	3.8	49.4	30.70	2.0	9.5	9000
DST-050	50	47.0		2.15	1.50	2.00		45.8		8.2	5.0	2.5	11.50	4.5	73.3	38.00	2.0	14.4	10000
DST-055	55	52.0	-0.30	2.15	1.50	2.00	-0.07	50.8	+0.46 -1.10	8.2	5.4	2.5	12.99	4.5	71.4	42.00	2.5	11.4	8000
DST-057	57	54.0		2.15	1.50	2.00		52.8		8.2	5.6	2.5	14.00	4.5	70.9	43.70	2.5	11.4	8000
DST-058	58	55.0	-0.35	2.15	1.50	2.00	-0.08	53.8	+0.54 -1.30	8.2	5.7	2.5	14.30	4.5	71.1	44.30	2.5	11.5	8000
DST-060	60	57.0		2.15	1.50	2.00		55.8		8.2	5.8	2.5	14.80	4.5	69.3	46.00	2.5	11.3	7000
DST-062	62	59.0	-0.54	2.15	1.50	2.00	-0.10	57.8	+0.54 -1.30	8.2	5.9	2.5	15.90	4.5	69.3	47.50	2.5	11.4	7000
DST-065	65	62.0		2.65	1.50	2.50		60.8		10.2	6.2	3.0	21.70	4.5	135.0	49.80	2.5	22.7	6000
DST-067	67	64.0	-0.63	2.65	1.50	2.50	-0.10	62.5	+0.54 -1.30	10.2	6.4	3.0	22.60	4.5	136.0	51.30	2.5	23.0	7000
DST-068	68	65.0		2.65	1.50	2.50		63.5		10.2	6.5	3.0	23.50	4.5	135.0	52.20	2.5	23.0	7000
DST-070	70	67.0	-0.54	2.65	1.50	2.50	-0.10	65.5	+0.54 -1.30	10.2	6.6	3.0	25.10	4.5	134.0	53.80	2.5	23.0	6000
DST-075	75	72.0		2.65	1.50	2.50		70.5		10.2	7.0	3.0	28.20	4.5	130.0	57.60	2.5	22.8	6000
DST-080	80	76.5	-0.35	2.65	1.75	2.50	-0.08	74.5	+0.54 -1.30	10.2	7.4	3.0	30.75	5.3	128.0	71.60	3.0	19.5	6000
DST-085	85	81.5		3.15	1.75	3.00		79.5		10.2	7.8	3.5	39.50	5.3	215.0	76.20	3.0	33.4	5000
DST-090	90	86.5	-0.54	3.15	1.75	3.00	-0.10	84.5	+0.54 -1.30	10.2	8.2	3.5	47.70	5.3	217.0	80.20	3.0	33.4	5000
DST-095	95	91.5		3.15	1.75	3.00		89.5		10.2	8.6	3.5	53.00	5.3	212.0	85.50	3.5	29.3	4000
DST-100	100	96.5	-0.63	3.15	1.75	3.00	-0.10	94.5	+0.54 -1.30	10.2	9.0	3.5	56.60	5.3	206.0	90.00	3.5	29.0	4000
DST-110	110	106.0		4.15	2.00	4.00		103.0		12.2	9.6	3.5	84.60	6.0	457.0	113.00	3.5	66.9	4000
DST-120	120	116.0	-0.54	4.15	2.00	4.00	-0.10	113.0	+0.54 -1.30	14.2	10.1	3.5	89.70	6.0	424.0	123.00	3.5	64.5	4000
DST-130	130	126.0		4.15	2.00	4.00		123.0		14.2	10.7	4.0	105.00	6.0	395.0	134.00	4.0	55.2	3000
DST-140	140	136.0	-0.63	4.15	2.00	4.00	-0.10	133.0	+0.54 -1.30	14.2	11.2	4.0	115.00	6.0	376.0	144.00	4.0	54.4	3000

*** For plated rings, add 0.05 To the listed maximum thickness. Maximum ring thickness will be a minimum of 0.005 Less than the listed groove width (w) minimum.

THE THREE PRONGS OF THIS RING MAKE CONTACT WITH THE BOTTOM OF THE GROOVE FOR EFFECTIVE RETENTION OF AN ASSEMBLY.



RING NO.	NOM SIZE	SHAFT DIA. (mm)		GROOVE SIZE				RING SIZE & WEIGHT				CLEARANCE			SUPPLEMENTARY DATA						
				DIAMETER		WIDTH		THICKNESS ***		GAP		FREE O.D.	EDGE	Thrust Load Ring*	THRUST LOAD Groove (w/smallest listed Ds)		R/Ch Max.	P'r kN	Max. load w/ R /Ch Max.	RPM Limits	
				Dg	Tol.	W	Tol.	T	Tol.	A	Tol.				G Ref.	L2 Max.					Y Min.
DE-0.8	0.8	1	1.4	0.8	-0.04	0.24		0.2		0.58		0.003	1.95	2.25	0.4	0.08	0.03	1.2	0.3	0.04	50000
DE-1.2	1.2	1.4	2.0	1.2		0.34		0.3		1.01		0.009	2.9	3.25	0.6	0.12	0.04	1.5	0.4	0.06	47000
DE-1.5	1.5	2.0	2.5	1.5		0.44		0.4		1.28		0.021	3.9	4.25	0.8	0.22	0.07	2.0	0.6	0.11	42000
DE-1.9	1.9	2.5	3.0	1.9	-0.06	0.54		0.5		1.61	±0.04	0.040	4.40	4.8	1.0	0.35	0.10	2.5	0.7	0.17	40000
DE-2.3	2.3	3.0	4.0	2.3		0.64		0.6		1.94		0.069	5.90	6.3	1.0	0.50	0.15	3.0	0.9	0.24	38000
DE-3.2	3.2	4.0	5.0	3.2		0.64		0.6	±0.02	2.70		0.088	6.90	7.3	1.0	0.65	0.22	4.0	0.9	0.32	35000
DE-004	4.0	5.0	7.0	4.0	-0.075	0.74		0.7		3.34		0.158	8.85	9.3	1.2	0.95	0.25	5.0	1.0	0.47	32000
DE-005	5.0	6.0	8.0	5.0		0.74		0.7		4.11		0.236	10.85	11.3	1.2	1.15	0.90	7.0	1.0	0.60	28000
DE-006	6.0	7.0	9.0	6.0		0.74		0.7		5.26	±0.048	0.255	11.8	12.3	1.2	1.35	1.10	8.0	1.1	0.70	25000
DE-007	7.0	8.0	11.0	7.0		0.94		0.9		5.84		0.474	13.8	14.3	1.5	1.80	1.25	9.0	1.3	1.00	22000
DE-008	8.0	9.0	12.0	8.0	-0.09	1.05		1.0		6.52		0.660	15.75	16.3	1.8	2.50	1.42	10.0	1.5	1.25	20000
DE-009	9.0	10.0	14.0	9.0		1.15		1.1		7.63	±0.058	1.090	18.20	18.8	2.0	3.00	1.60	11.0	1.6	1.50	17000
DE-010	10.0	11.0	15.0	10.0		1.25		1.2		8.32		1.250	19.70	20.4	2.0	3.50	1.70	12.0	1.8	1.75	15000
DE-012	12.0	13.0	18.0	12.0	-0.11	1.35		1.3	±0.03	10.45		1.630	22.7	23.4	2.5	4.70	3.10	15.0	1.9	2.30	13000
DE-015	15.0	16.0	24.0	15.0		1.55		1.5		12.61	±0.07	3.370	28.70	29.4	3.0	7.80	7.00	20.0	2.2	3.30	11000
DE-019	19.0	20.0	31.0	19.0		1.80		1.75		15.92		6.420	36.50	37.6	3.5	11	10.00	25.0	2.5	3.60	7600
DE-024	24.0	25.0	38.0	24.0	-0.13	2.05		2.00		21.88		8.550	43.50	44.6	4.0	15	13.00	30.0	3.0	4.00	5500
DE-030	30.0	32.0	42.0	30.0		2.55		2.50		25.80	±0.084	13.50	51.3	52.6	4.5	23.00	16.50	36.0	3.5	5.30	4200

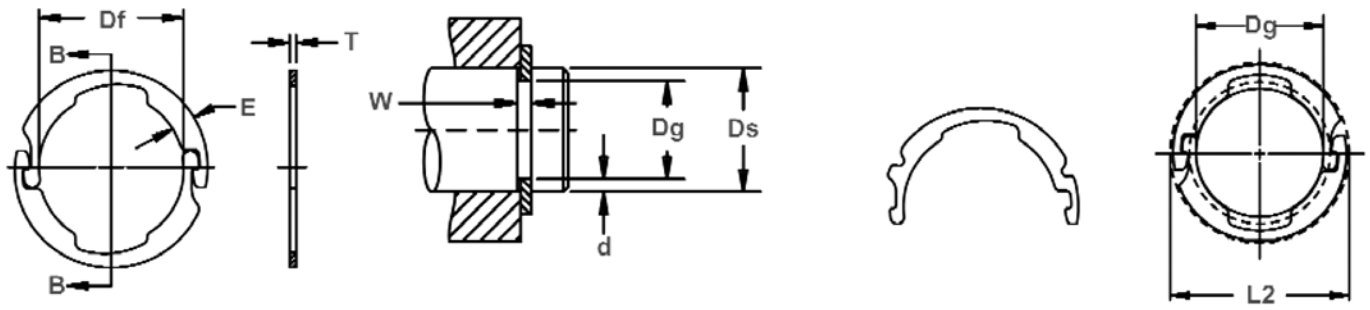
*Sharp corner abutment.

All dimensions in millimeters.

The radius "r" on the load side must not exceed 0.1T.

*** For plated rings, add 0.05 To the listed maximum thickness. Maximum ring thickness will be a minimum of 0.005 Less than the listed groove width (w) minimum.

IDEAL FOR LOW CLEARANCE APPLICATIONS WHERE RADIAL INSTALLATION IS PREFERRED.



Free Diameter & Ring Measurements with Section BB

Shaft Diameter & Groove Dimensions

Plier Notch Design
(Call for additional information)

Clearance Diameter Installed in Groove

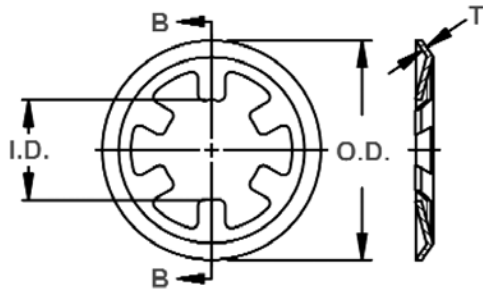
RING NO.	SHAFT DIA. (mm)		GROOVE SIZE			RING SIZE & WEIGHT				CLEARANCE				SUPPLEMENTARY DATA					
			DIAMETER	WIDTH	DEPTH	THICKNESS ***	FREE DIAMETER DIAMETER	MAX. SEC.	FREE O.D.	EDGE			Max Load (lbs.)	RPM Limits					
	Ds	Dg	Tol.	W Min.	d Ref.	T	Tol.	Df	Tol.	S max ref.	kg/ 1000	G Ref.			L2 Max.	Y Min.	Pr kN	Pg kN	R/Ch Max.
DC-003	3	2.3	-0.07	0.44	0.35	0.40	-0.05	2.18	±0.06	0.90	0.02	3.98	4.1	1.0	0.50	0.24	0.40	0.40	95000
DC-004	4	3.2		0.44	0.40	0.40		3.00		1.00	0.04	5.00	5.2	1.2	0.50	0.37	0.40	0.40	90000
DC-005	5	4.0		0.64	0.50	0.60		3.80	1.20	0.08	6.20	6.4	1.5	1.10	0.58	0.60	0.70	88000	
DC-006	6	5.0		0.74	0.50	0.70		4.80	1.30	0.11	7.40	7.6	1.5	1.65	0.72	0.70	1.10	80000	
DC-007	7	6.0		0.85	0.50	0.80		5.80	1.40	0.13	8.60	8.8	1.5	2.20	0.85	0.80	1.30	69000	
DC-008	8	7.0	-0.09	0.85	0.50	0.80	-0.09	6.80	±0.09	1.60	0.17	10.00	10.2	1.5	2.20	0.98	0.80	1.30	67000
DC-009	9	8.0		1.10	0.50	1.00		7.80		1.70	0.22	11.20	11.4	1.5	3.50	1.10	1.00	2.00	58000
DC-010	10	9.0		1.10	0.50	1.00		8.75		1.70	0.26	12.15	12.4	1.5	3.70	1.24	1.00	2.00	50000
DC-011	11	10.0		1.10	0.50	1.00		9.65		1.80	0.29	13.20	13.6	1.5	4.00	1.35	1.00	2.00	40000
DC-012	12	10.9		1.10	0.55	1.00		10.55		1.90	0.32	14.35	14.7	1.7	4.20	1.65	1.00	2.00	35000
DC-013	13	11.8	-0.11	1.10	0.60	1.00	-0.11	11.40	±0.18	2.00	0.36	15.40	15.8	1.8	4.50	1.90	1.00	2.00	30000
DC-014	14	12.7		1.10	0.65	1.00		12.30		2.00	0.40	16.30	16.7	2.0	5.00	2.20	1.00	2.00	27000
DC-015	15	13.6		1.10	0.70	1.00		13.20		2.10	0.46	17.40	17.8	2.1	5.50	2.60	1.00	2.00	25000
DC-016	16	14.5		1.10	0.75	1.00		14.10		2.20	0.54	18.50	18.9	2.3	5.80	3.00	1.00	2.00	24000
DC-017	17	15.4		1.10	0.80	1.00		14.90		2.25	0.64	19.40	19.9	2.4	6.00	3.40	1.00	2.00	23000
DC-018	18	16.3		1.30	0.85	1.20		15.80		2.30	0.72	20.40	20.9	2.6	8.50	3.70	1.20	2.80	21000
DC-019	19	17.2		1.30	0.90	1.20		16.70		2.40	0.80	21.50	22.0	2.7	9.00	4.30	1.20	2.80	21000
DC-020	20	18.1		1.30	0.95	1.20		17.55		2.55	0.87	22.65	23.2	2.9	9.40	4.70	1.20	3.00	20000
DC-022	22	19.9		1.30	1.05	1.20		19.40		2.80	1.10	25.00	25.5	3.2	10.00	5.70	1.20	3.00	17000
DC-023	23	20.8	-0.21	1.30	1.10	1.20	-0.21	20.20	±0.21	2.90	1.15	26.00	26.6	3.3	10.50	6.20	1.20	3.20	15000
DC-024	24	21.7		1.30	1.15	1.20		21.10		3.00	1.52	27.10	27.7	3.5	11.00	6.80	1.20	3.20	15000
DC-025	25	22.6		1.30	1.20	1.20		22.00		3.15	1.74	28.30	28.9	3.6	11.50	7.50	1.20	3.20	15000
DC-026	26	23.5		1.30	1.25	1.20		22.90		3.25	1.88	29.40	30.0	3.8	12.00	8.00	1.20	3.20	15000
DC-028	28	25.2		1.60	1.40	1.50		24.60		3.50	2.32	31.60	32.2	4.2	16.50	9.70	1.50	5.50	13000
DC-030	30	27.0		1.60	1.50	1.50		26.30		3.70	2.43	33.70	34.4	4.5	17.00	11.00	1.50	5.60	13000
DC-032	32	28.8		1.60	1.60	1.50		28.10		4.00	3.02	36.10	36.8	4.6	18.00	12.50	1.50	5.80	13000
DC-035	35	31.5		1.60	1.75	1.50		30.80		4.30	3.30	39.40	40.1	5.3	20.00	15.00	1.50	5.80	11000
DC-036	36	32.4	-0.25	1.85	1.80	1.75	-0.25	31.70	±0.25	4.40	4.40	40.50	41.2	5.4	25.00	16.00	1.75	8.30	10000
DC-038	38	34.2		1.85	1.90	1.75		33.40		4.60	4.62	42.60	43.4	5.7	26.00	17.50	1.75	8.50	10000
DC-040	40	36.0		1.85	2.00	1.75		35.20		4.90	5.05	45.00	45.8	6.0	27.50	20.00	1.75	8.80	9000
DC-042	42	37.8		1.85	2.10	1.75		37.00		5.10	5.46	47.20	48.0	6.3	28.00	21.50	1.75	8.90	9000
DC-045	45	40.5		1.85	2.25	1.75		39.60		5.50	5.98	50.60	51.5	6.8	30.00	25.00	1.75	9.00	8000
DC-048	48	43.2		1.85	2.40	1.75		42.30		5.90	7.82	54.10	55.0	7.2	32.00	28.00	1.75	9.00	8000
DC-050	50	45.0		2.15	2.50	2.00		44.00		6.20	8.85	56.40	57.4	7.5	39.50	31.00	2.00	12.00	7000
DC-052	52	47.0		2.15	2.50	2.00		46.00		6.30	9.33	58.60	59.6	7.5	41.00	32.00	2.00	12.00	7000
DC-055	55	50.0		2.15	2.50	2.00		48.50		6.50	10.40	61.50	63.0	7.5	43.00	34.00	2.00	12.00	7000

All dimensions in millimeters.

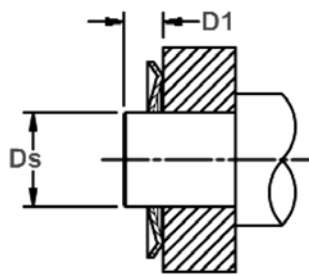
*The radius "r" on the load side must not exceed 0.1 T

*** For plated rings, add 0.05 To the listed maximum thickness. Maximum ring thickness will be a minimum of 0.005 Less than the listed groove width (w) minimum.

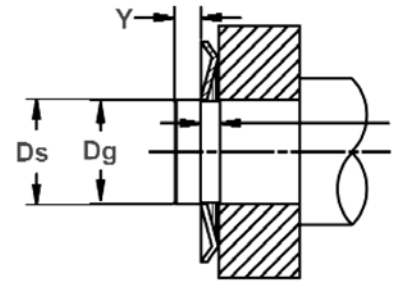
PRONGS DIG INTO SHAFT WHEN A LOAD IS INTRODUCED TO THE OTHER SIDE.



Free Diameter & Ring Measurements
With Section BB



Installation View Without Groove

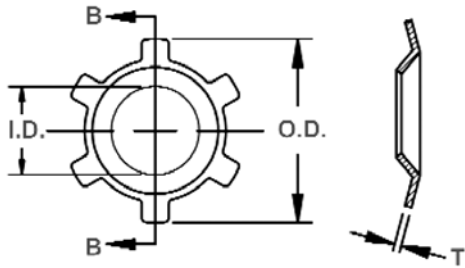


Installation View With Groove

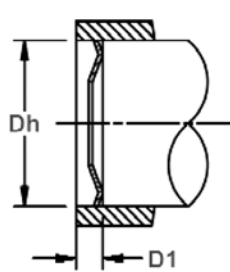
RING NO.	SHAFT DIAMETER (mm)		GROOVE SIZE			RING DIMENSIONS				SUPPLEMENTARY DATA			
			DIMENSIONS			I.D.	O.D.	No. Of Prongs	T	WEIGHT Per 1000 kg.	Min. Distance D1	THRUST LOAD N	EDGE MARGIN Y
	Ds	TOL.	Dg	Tol.	W Min.								
DTX-1.5	1.5	+0.00 -0.060	1.40	-0.060	0.4	1.40	6.0	3	0.25	0.040	1.5	100	1.0
DTX-2.0	2.0		1.90		0.4	1.85	6.5	3	0.25	0.042	1.5	150	1.0
DTX-3.0	3.0	+0.00 -0.075	2.90	-0.075	0.4	2.80	8.0	4	0.25	0.066	1.5	200	1.0
DTX-3.5	3.5		3.40		0.5	3.30	8.2	4	0.40	0.104	2.0	210	1.0
DTX-4.0	4.0	+0.00 -0.075	3.90	-0.075	0.4	3.80	9.0	4	0.25	0.078	2.0	220	1.0
DTX-5.0	5.0		4.90		0.4	4.80	10.0	4	0.25	0.082	2.0	230	1.0
DTX-6.0	6.0	+0.00 -0.090	5.90	-0.090	0.4	5.80	11.0	4	0.25	0.094	2.5	240	1.5
DTX-7.0	7.0		6.90		0.4	6.80	12.0	5	0.25	0.110	2.5	250	1.5
DTX-8.0	8.0	+0.00 -0.090	7.85	-0.090	0.4	7.75	13.0	4	0.25	0.122	2.5	250	1.5
DTX-9.0	9.0		8.85		0.6	8.75	14.0	5	0.30	0.208	2.5	300	1.5
DTX-10.0	10.0	+0.00 -0.110	9.85	-0.110	0.6	9.75	16.0	6	0.30	0.232	3.0	320	1.5
DTX-12.0	12.0		11.85		0.6	11.70	18.0	6	0.30	0.255	3.0	350	1.5
DTX-14.0	14.0	+0.00 -0.110	13.80	-0.110	0.6	13.70	20.5	6	0.30	0.310	3.0	400	1.5
DTX-15.0	15.0		14.80		1.0	14.60	23.0	8	0.50	0.750	3.0	600	2.0
DTX-16.0	16.0	+0.00 -0.130	15.80	-0.130	1.0	15.60	24.5	8	0.40	0.710	3.0	700	2.0
DTX-17.0	17.0		16.80		1.0	16.60	26.0	8	0.50	0.950	3.5	800	2.0
DTX-18.0	18.0	+0.00 -0.130	17.80	-0.130	1.0	17.60	27.0	8	0.40	0.810	3.5	850	2.0
DTX-19.0	19.0		18.80		1.0	18.60	28.0	8	0.50	0.950	3.5	900	2.0
DTX-20.0	20.0	+0.00 -0.130	19.75	-0.130	1.0	19.50	29.0	8	0.50	1.090	3.5	950	2.0
DTX-22.0	22.0		21.75		1.0	21.50	31.0	8	0.50	1.150	3.5	1000	2.0
DTX-23.0	23.0	+0.00 -0.130	22.75	-0.130	1.0	22.50	31.5	8	0.50	1.220	4.0	1050	2.0
DTX-25.0	25.0		24.75		1.0	24.50	34.0	8	0.50	1.490	4.0	1100	2.0
DTX-28.0	28.0	+0.00 -0.160	27.75	-0.160	1.0	27.50	37.0	8	0.50	1.550	4.0	1200	2.0
DTX-30.0	30.0		29.75		1.0	29.50	40.0	8	0.50	1.630	4.0	1300	2.0
DTX-35.0	35.0	+0.00 -0.160	34.75	-0.160	1.0	34.50	46.0	8	0.50	2.100	4.0	1400	2.0
DTX-45.0	45.0		44.75		1.5	44.50	60.0	8	0.50	2.700	4.0	1500	2.0

All dimensions in millimeters.

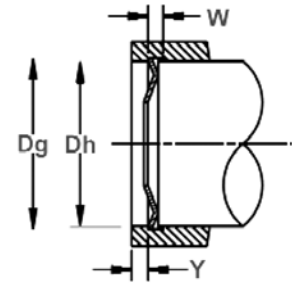
THE ENDS CREATE INTERFERENCE WITH THE HOUSING WHEN THIS RING IS INSTALLED AND A LOAD INTRODUCED ON THE OTHER SIDE.



Free Diameter & Ring Measurements
With Section BB



Installation View Without Groove

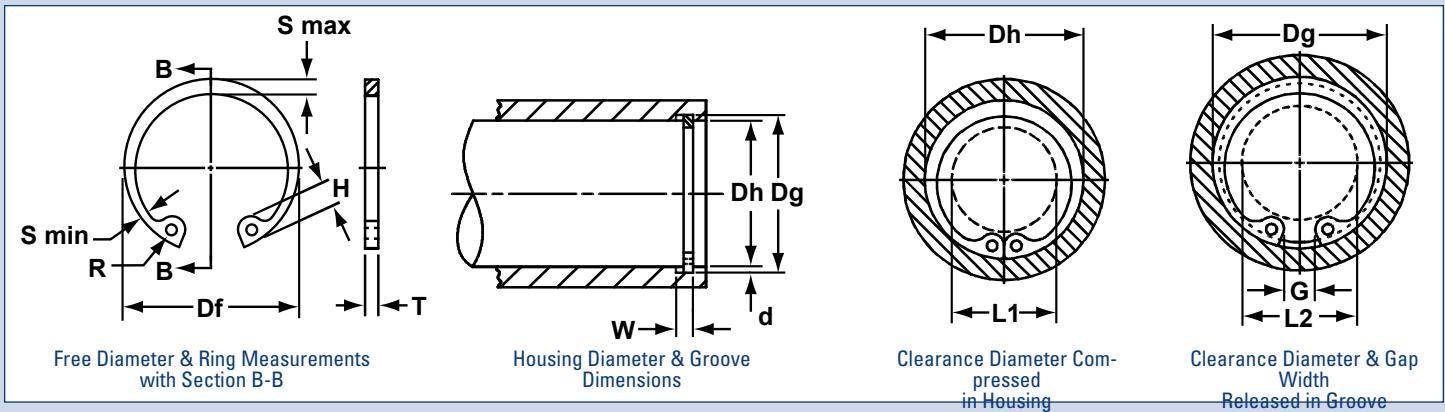


Installation View With Groove

Ring No.	HOUSING DIAMETER (mm)		GROOVE SIZE			RING DIMENSIONS				SUPPLEMENTARY DATA			
			DIMENSIONS			No. Of Prongs	T	kg.	Min. Distance	THRUST LOAD	EDGE MARGIN		
	Dh	TOL.	Dg	Tol.	W Min.							I.D.	O.D.
DTI-008.0	8.0	+0.09	8.10	+0.060	0.4	4.0	8.25	6	0.25	0.048	2.0	300	1.0
DTI-010.0	10.0	-0.00	10.10	+0.075	0.4	5.0	10.20	6	0.25	0.068	2.0	350	1.0
DTI-012.0	12.0	+0.11	12.10		0.4	6.0	12.25	6	0.25	0.112	2.5	450	1.0
DTI-014.0	14.0		-0.00	14.10	0.5	8.0	14.25	6	0.30	0.172	2.5	500	1.0
DTI-015.0	15.0	15.10		0.5	9.0	15.25	6	0.30	0.192	2.5	550	1.0	
DTI-016.0	16.0	16.15	0.5	10.0	16.30	6	0.30	0.206	2.5	600	1.5		
DTI-017.0	17.0	17.15	0.5	11.0	17.30	8	0.30	0.236	3.0	650	1.5		
DTI-018.0	18.0	18.15	0.8	10.5	18.30	8	0.40	0.380	3.0	700	1.5		
DTI-019.8	19.8	20.00	0.8	11.0	20.20	8	0.50	0.604	3.5	800	1.5		
DTI-020.0	20.0	20.20	0.8	11.0	20.35	8	0.40	0.512	3.5	800	1.5		
DTI-022.0	22.0	22.20	1.0	13.0	22.35	8	0.50	0.680	3.5	800	2.0		
DTI-025.0	25.0	25.20	1.0	16.0	25.35	10	0.50	0.810	3.5	800	2.0		
DTI-026.0	26.0	26.20	1.0	17.0	26.40	10	0.50	0.856	3.5	850	2.0		
DTI-028.0	28.0	28.20	1.0	19.0	28.40	10	0.50	0.922	3.5	850	2.0		
DTI-030.0	30.0	30.20	1.0	21.0	30.40	8	0.50	1.010	4.0	900	2.0		
DTI-032.0	32.0	32.20	1.0	22.5	32.40	12	0.50	1.210	4.0	900	2.0		
DTI-035.0	35.0	35.20	1.0	25.0	35.40	12	0.50	1.320	4.0	900	2.0		
DTI-040.0	40.0	40.20	1.0	30.0	40.40	12	0.50	1.720	4.0	950	2.0		
DTI-045.0	45.0	45.20	1.0	35.0	45.40	12	0.50	1.830	4.0	950	2.0		
DTI-046.0	46.0	46.20	1.0	36.0	46.50	12	0.50	1.870	4.0	1000	2.0		
DTI-050.0	50.0	50.20	1.0	39.0	50.50	12	0.50	2.160	4.0	1000	2.0		

All dimensions in millimeters.

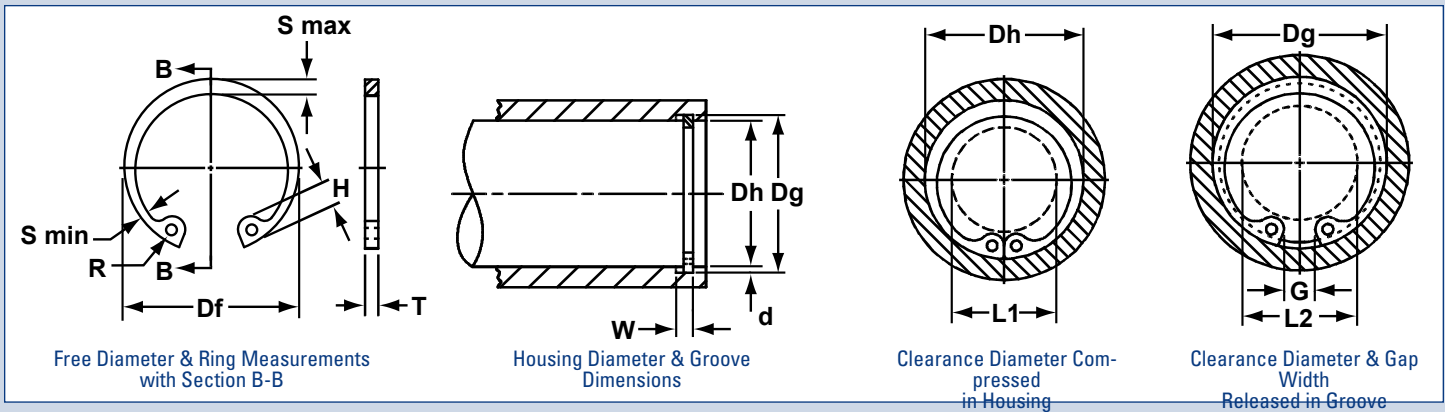
ONCE INSTALLED IN THE GROOVE OF A HOUSING/BORE, THE SHOULDER HOLDS AN ASSEMBLY IN PLACE.



RING NO.	HOUSING DIAMETER		GROOVE SIZE						RING SIZE & WEIGHT					CLEARANCE DIA.		↑ THRUST LD (kN) Sqr. corner abutment	
			DIAMETER			WIDTH		DEPTH	FREE DIAMETER		THICKNESS ***		Wt. Per 1000 pcs.	L1	L2	Ring (Safety Factor of 4)	Groove (Safety Factor of 2)
	Ds mm	Ds INCH	Dg	tol	F.I.M.*	W	tol	d	Df	tol	T	tol	kg			Pr	Pg
MHO-008	8	0.315	8.40	+0.06	0.03	0.50	+0.10	0.20	8.80	+0.25 -0.13	0.4	±0.06	0.05	4.4	4.8	2.4	1.0
MHO-009	9	0.354	9.45		0.03	0.70		0.23	10.00		0.6		0.11	4.6	5.0	4.4	1.2
MHO-010	10	0.393	10.50		0.03	0.70		0.25	11.10		0.6		0.14	5.5	6.0	4.9	1.5
MHO-011	11	0.433	11.60	+0.10	0.05	0.70	+0.10	0.30	12.20	+0.25 -0.13	0.6	±0.06	0.17	5.7	6.3	5.4	2.0
MHO-012	12	0.472	12.65		0.05	0.70		0.33	13.30		0.6		0.19	6.7	7.3	5.8	2.4
MHO-013	13	0.512	13.70		0.05	1.00		0.35	14.25		0.9		0.35	6.8	7.5	8.9	2.6
MHO-014	14	0.551	14.80	+0.10	0.05	1.00	+0.10	0.40	15.45	+0.25 -0.13	0.9	±0.06	0.39	6.9	7.7	9.7	3.2
MHO-015	15	0.591	15.85		0.05	1.00		0.43	16.60		0.9		0.42	7.9	8.7	10.4	3.7
MHO-016	16	0.630	16.90		0.10	1.00		0.45	17.70		0.9		0.47	8.8	9.7	11.0	4.2
MHO-017	17	0.669	18.00	+0.15	0.10	1.00	+0.15	0.50	18.90	+0.40 -0.25	0.9	±0.06	0.52	9.8	10.8	11.7	4.9
MHO-018	18	0.708	19.05		0.10	1.00		0.53	20.05		0.9		0.58	10.3	11.3	12.3	5.5
MHO-019	19	0.748	20.10		0.10	1.00		0.55	21.10		0.9		0.59	11.4	12.5	13.1	6.0
MHO-020	20	0.787	21.15	+0.15	0.10	1.00	+0.15	0.57	22.25	+0.40 -0.25	0.9	±0.06	0.70	11.6	12.7	13.7	6.6
MHO-021	21	0.826	22.20		0.10	1.00		0.60	23.30		0.9		0.82	12.6	13.8	14.5	7.3
MHO-022	22	0.866	23.30		0.10	1.20		0.65	24.40		1.1		0.90	13.5	14.8	22.5	8.3
MHO-023	23	0.905	24.35	+0.15	0.10	1.20	+0.15	0.67	25.45	+0.40 -0.25	1.1	±0.06	1.00	14.5	15.9	23.5	8.9
MHO-024	24	0.945	25.40		0.10	1.20		0.70	26.55		1.1		1.09	15.5	16.9	24.8	9.7
MHO-025	25	0.984	26.60		0.10	1.20		0.80	27.75		1.1		1.26	16.5	18.1	25.7	11.6
MHO-026	26	1.023	27.70	+0.20	0.15	1.20	+0.20	0.85	28.85	+0.65 -0.50	1.1	±0.06	1.3	17.5	19.2	26.8	12.7
MHO-027	27	1.063	28.80		0.15	1.40		0.90	29.95		1.3		1.7	17.4	19.2	33.0	14.0
MHO-028	28	1.102	29.80		0.15	1.40		0.90	31.10		1.3		1.8	18.2	20.0	34.0	14.6
MHO-030	30	1.181	31.90	+0.20	0.15	1.40	+0.20	0.95	33.40	+0.65 -0.50	1.3	±0.06	2.0	20.0	21.9	37.0	16.5
MHO-032	32	1.260	33.90		0.15	1.40		0.95	35.35		1.3		2.2	22.0	23.9	39.0	17.6
MHO-034	34	1.339	36.10		0.15	1.40		1.05	37.75		1.3		2.3	24.0	26.1	42.0	20.6
MHO-035	35	1.378	37.20	+0.20	0.15	1.40	+0.20	1.10	38.75	+0.65 -0.50	1.3	±0.06	2.3	25.0	27.2	43.0	22.3
MHO-036	36	1.417	38.30		0.15	1.40		1.15	40.00		1.3		2.6	26.0	28.3	44.0	23.9
MHO-037	37	1.457	39.30		0.15	1.40		1.15	41.05		1.3		2.9	27.0	29.3	45.0	24.6
MHO-038	38	1.496	40.40		0.15	1.40		1.20	42.15		1.3		3.0	28.0	30.4	46.0	26.4

***For plated rings add 0.05 To the listed maximum thickness. Maximum thickness will be a minimum of 0.005 Less than the listed groove width (w) minimum.

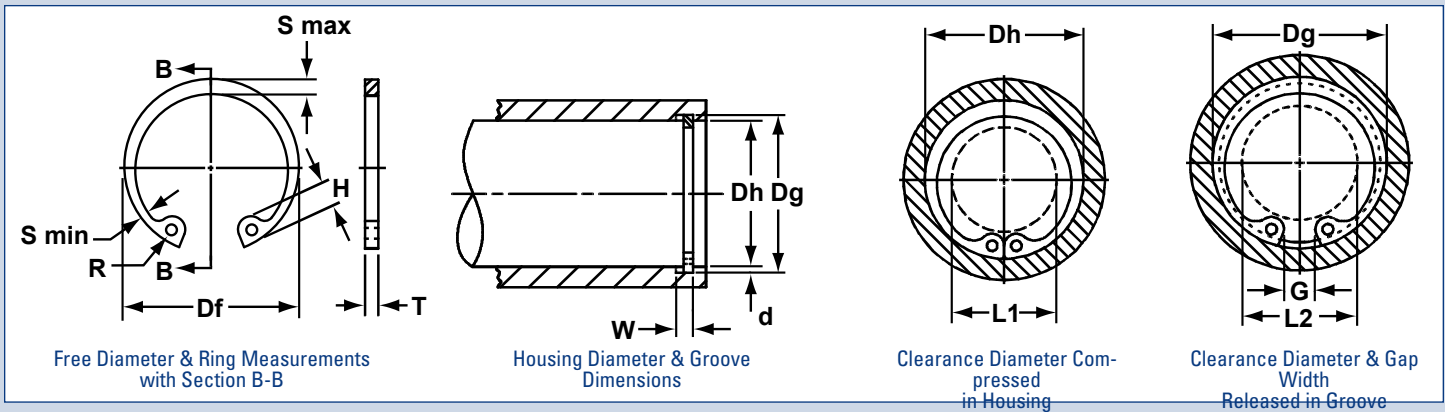
ONCE INSTALLED IN THE GROOVE OF A HOUSING/BORE, THE SHOULDER HOLDS AN ASSEMBLY IN PLACE.



RING NO.	HOUSING DIAMETER		GROOVE SIZE						RING SIZE & WEIGHT					CLEARANCE DIA.		↑ THRUST LD (kN) Sqr. corner abutment	
			DIAMETER			WIDTH		DEPTH	FREE DIAMETER		THICKNESS ***		Wt. Per 1000 pes.			Ring (Safety Factor of 4)	Groove (Safety Factor of 2)
	Ds mm	Ds INCH	Dg	tol	F.I.M.*	W	tol	d	Df	tol	T	tol	kg	L1	L2	Pr	Pg
MHO-040	40	1.575	42.40	+0.20	0.15	1.75	+0.20	1.20	44.25	+0.90 -0.65	1.6	±0.08	4.0	29.2	31.6	62.0	27.7
MHO-042	42	1.654	44.50		0.15	1.75		1.25	46.60		1.6		4.7	29.7	32.2	65.0	30.2
MHO-045	45	1.772	47.60		0.15	1.75		1.30	49.95		1.6		5.1	32.3	34.9	69.0	33.8
MHO-046	46	1.811	48.70		0.20	1.75		1.35	51.05		1.6		5.2	33.3	36.0	71.0	36.0
MHO-047	47	1.850	49.80		0.20	1.75		1.40	52.15		1.6		5.8	34.3	37.1	72.0	38.0
MHO-048	48	1.890	50.90		0.20	1.75		1.45	53.30		1.6		6.1	35.0	37.9	74.0	40.0
MHO-050	50	1.969	53.10		0.20	1.75		1.55	55.35		1.6		6.2	36.9	40.0	77.0	45.0
MHO-052	52	2.047	55.30	+0.30	0.20	2.15	+0.20	1.65	57.90	+1.00 -0.75	2.0	±0.08	8.1	38.6	41.9	99.0	50.0
MHO-055	55	2.165	58.40		0.20	2.15		1.70	61.10		2.0		8.9	40.8	44.2	105.0	54.0
MHO-057	57	2.244	60.50		0.20	2.15		1.75	63.25		2.0		9.9	42.2	45.7	109.0	58.0
MHO-058	58	2.283	61.60		0.20	2.15		1.80	64.40		2.0		10.1	43.2	46.8	111.0	60.0
MHO-060	60	2.362	63.80		0.20	2.15		1.90	66.80		2.0		10.5	45.5	49.3	115.0	66.0
MHO-062	62	2.441	65.80		0.20	2.15		1.90	68.60		2.0		11.5	47.0	50.8	119.0	68.0
MHO-063	63	2.480	66.90		0.20	2.15		1.95	69.90		2.0		11.6	47.8	51.7	120.0	71.0
MHO-065	65	2.559	69.00		0.20	2.55		2.00	72.20		2.4		15.4	49.4	53.4	149.0	75.0
MHO-068	68	2.677	72.20		0.20	2.55		2.10	75.70		2.4		15.9	52.0	56.2	156.0	82.0
MHO-070	70	2.756	74.40		0.20	2.55		2.20	77.50		2.4		16.1	53.8	58.2	161.0	88.0
MHO-072	72	2.835	76.50	+0.30	0.20	2.55	+0.20	2.25	79.60	+1.40 -1.40	2.4	±0.08	16.3	55.9	60.4	166.0	93.0
MHO-075	75	2.953	79.70		0.20	2.55		2.35	83.30		2.4		19.3	58.2	62.9	172.0	101.0
MHO-078	78	3.071	82.80		0.20	2.95		2.40	86.80		2.8		24.0	61.2	66.0	209.0	108.0
MHO-080	80	3.150	85.00		0.20	2.95		2.50	89.10		2.8		25.9	63.0	68.0	215.0	115.0
MHO-082	82	3.228	87.20		0.25	2.95		2.60	91.10		2.8		27.2	63.5	68.7	220.0	122.0
MHO-085	85	3.346	90.40		0.25	2.95		2.70	94.40		2.8		29.5	66.8	72.2	228.0	131.0
MHO-088	88	3.464	93.60		0.25	2.95		2.80	97.90		2.8		31.3	69.6	75.2	236.0	141.0
MHO-090	90	3.543	95.70		0.25	2.95		2.85	100.00		2.8		32.6	71.6	77.3	241.0	147.0
MHO-092	92	3.622	97.80		0.25	2.95		2.90	102.20		2.8		33.1	73.6	79.4	247.0	153.0

***For plated rings add 0.05 To the listed maximum thickness. Maximum thickness will be a minimum of 0.005 Less than the listed groove width (w) minimum.

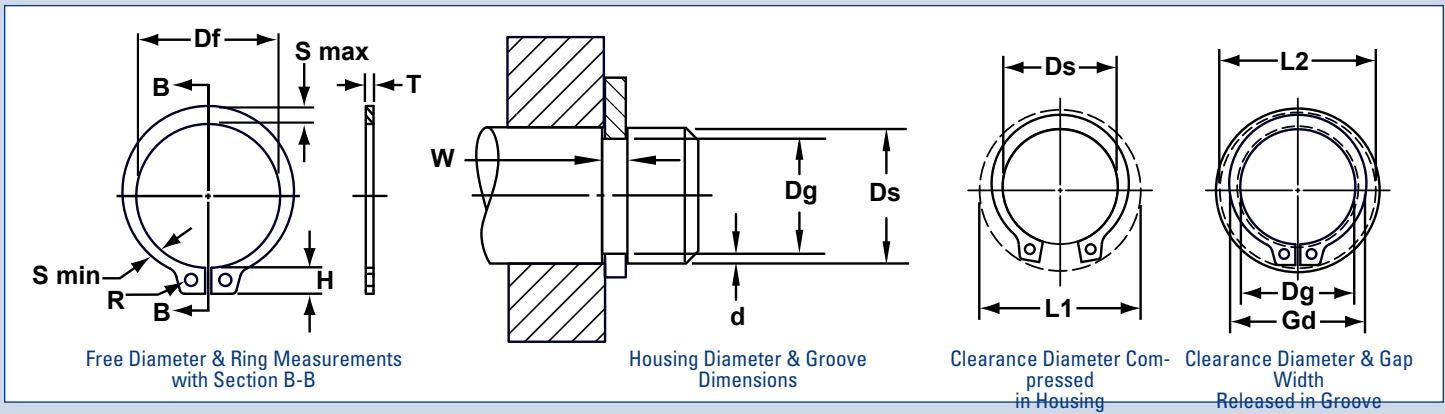
ONCE INSTALLED IN THE GROOVE OF A HOUSING/BORE, THE SHOULDER HOLDS AN ASSEMBLY IN PLACE.



RING NO.	HOUSING DIAMETER		GROOVE SIZE						RING SIZE & WEIGHT				CLEARANCE DIA.		↑ THRUST LD (kN) Sqr. corner abutment			
			DIAMETER			WIDTH		DEPTH	FREE DIAMETER		THICKNESS ***		Wt. Per 1000 pcs.	L1	L2	Ring (Safety Factor of 4)	Groove (Safety Factor of 2)	
	Ds mm	Ds INCH	Dg	tol	F.I.M.*	W	tol	d	Df	tol	T	tol	kg	L1	L2	Pr	Pg	
MHO-095	95	3.740	101.00	+0.30	0.25	2.95	+0.20	3.00	105.60	+1.65	-1.65	2.8	±0.08	35.4	76.7	82.7	255.0	164.0
MHO-098	98	3.858	104.20		0.25	2.95		3.10	109.00			2.8		39.4	78.3	84.5	263.0	174.0
MHO-100	100	3.937	106.30	0.25	2.95	3.15		110.70	2.8			39.9		80.3	86.6	269.0	181.0	
MHO-102	102	4.016	108.40	0.25	2.95	3.20		112.40	2.8			42.2		82.2	88.6	273.0	187.0	
MHO-105	105	4.134	111.50	0.25	2.95	3.25		115.80	2.8			44.0		85.1	91.6	281.0	196.0	
MHO-108	108	4.252	114.60	0.25	2.95	3.30		119.20	2.8			45.8		88.1	94.7	290.0	205.0	
MHO-110	110	4.331	116.70	0.25	2.95	3.35		120.80	2.8			47.6		88.4	95.1	295.0	212.0	
MHO-115	115	4.528	121.90	0.25	2.95	3.45		126.00	2.8			50.3		93.2	100.1	309.0	227.0	
MHO-120	120	4.724	127.00	0.25	2.95	3.50		132.40	2.8			56.2		98.2	105.2	321.0	241.0	
MHO-125	125	4.921	132.10	0.25	2.95	3.55		137.10	2.8			60.0		103.1	110.2	335.0	255.0	
MHO-130	130	5.118	137.20	0.25	2.95	3.60	142.50	2.8	63.5	108.0	115.2	349.0	269.0					
MHO-135	135	5.315	142.30	0.25	3.40	3.65	148.50	3.2	79	110.4	117.7	415.0	283.0					
MHO-140	140	5.512	147.40	0.25	3.40	3.70	154.10	3.2	83	115.3	122.7	429.0	298.0					
MHO-145	145	5.709	152.50	0.25	3.40	3.75	159.50	3.2	87	120.4	127.9	444.0	313.0					
MHO-150	150	5.906	157.60	0.25	3.40	3.80	164.50	3.2	89	125.3	132.9	460.0	327.0					
MHO-155	155	6.102	162.70	0.30	3.40	3.85	168.80	3.2	91	130.4	138.1	475.0	343.0					
MHO-160	160	6.299	167.80	0.30	4.25	3.90	175.10	4.0	121	133.8	141.6	613.0	359.0					
MHO-165	165	6.496	172.90	0.30	4.25	3.95	180.30	4.0	127	138.7	146.6	632.0	374.0					
MHO-170	170	6.693	178.00	0.30	4.25	4.00	185.60	4.0	138	143.6	151.6	651.0	390.0					
MHO-175	175	6.890	183.20	0.30	4.25	4.10	191.30	4.0	147	146.0	154.2	670.0	403.0					
MHO-180	180	7.087	188.40	0.30	4.25	4.20	196.60	4.0	156	151.4	159.8	690.0	434.0					
MHO-185	185	7.283	193.60	0.30	5.10	4.30	202.70	4.8	194	154.7	163.3	851.0	457.0					
MHO-190	190	7.480	198.80	0.30	5.10	4.40	207.70	4.8	220	159.5	168.3	873.0	480.0					
MHO-200	200	7.874	209.00	0.30	5.10	4.50	217.80	4.8	235	169.2	178.2	919.0	517.0					
MHO-210	210	8.268	219.40	0.30	5.10	4.70	230.30	4.8	275	177.5	186.9	965.0	566.0					
MHO-220	220	8.661	230.00	0.30	5.10	5.00	240.50	4.8	285	184.1	194.1	1000.0	608.0					
MHO-230	230	9.055	240.60	0.30	5.10	5.30	251.40	4.8	330	194.0	204.6	1060.0	686.0					
MHO-240	240	9.449	251.00	0.30	5.10	5.50	262.30	4.8	365	200.4	211.4	1090.0	725.0					
MHO-250	250	9.843	261.40	0.30	5.10	5.70	273.30	4.8	375	210.0	221.4	1150.0	808.0					

***For plated rings add 0.05 To the listed maximum thickness. Maximum thickness will be a minimum of 0.005 Less than the listed groove width (w) minimum.

ONCE INSTALLED IN THE GROOVE OF A SHAFT, THE SHOULDER HOLDS AN ASSEMBLY IN PLACE.



RING NO.	SHAFT DIAMETER		GROOVE SIZE						RING SIZE & WEIGHT				CLEARANCE DIA.		↑ THRUST LD (kN) Sqr. corner abutment		
			DIAMETER			WIDTH		DEPTH	FREE DIAMETER		THICKNESS ***		Wt. Per 1000 pcs.			Ring (Safety Factor of 4)	Groove (Safety Factor of 2)
	Ds mm	Ds INCH	Dg	tol	F.I.M.**	W	tol	d	Df	tol	T	tol	kg	L1	L2	Pr	Pg
MSH-004*	4	0.157	3.80	-0.08	0.03	0.32	+0.05	0.10	3.60	+0.05 -0.10	0.25	±0.05	0.017	7.0	6.8	0.6	0.2
MSH-005*	5	0.197	4.75		0.03	0.50	+0.10	0.13	4.55		0.40	±0.06	0.029	8.2	7.9	1.1	0.3
MSH-006*	6	0.236	5.70		0.03	0.50		0.15	5.45		0.40		0.040	9.1	8.8	1.4	0.4
MSH-007	7	0.275	6.60	0.05	0.70	0.20		6.35	+0.05 -0.15	0.60	0.10		12.3	11.8	2.6	0.7	
MSH-008	8	0.315	7.50	0.05	0.70	0.25	7.15	0.60		0.12	13.6	13.0	3.1	1.0			
MSH-009	9	0.354	8.45	0.05	0.70	0.28	8.15	0.60		0.15	14.5	13.8	3.5	1.2			
MSH-010	10	0.393	9.40	-0.10	0.05	0.70	0.30	9.00	+0.05 -0.15	0.60	0.19	15.5	14.7	3.9	1.5		
MSH-011	11	0.433	10.35		0.05	0.70	0.33	10.00		0.60	0.23	16.4	15.6	4.3	1.8		
MSH-012	12	0.472	11.35		0.05	0.70	0.33	10.85		0.60	0.24	17.4	16.6	4.7	2.0		
MSH-013	13	0.512	12.30	-0.12	0.10	1.00	0.35	11.90	+0.15 -0.25	0.90	0.44	19.7	18.8	7.5	2.2		
MSH-014	14	0.551	13.25		0.10	1.00	0.38	12.90		0.90	0.49	20.7	19.7	8.1	2.6		
MSH-015	15	0.591	14.15		0.10	1.00	0.43	13.80		0.90	0.54	21.7	20.6	8.7	3.2		
MSH-016	16	0.630	15.10	-0.15	0.10	1.00	0.45	14.70	+0.15 -0.25	0.90	0.59	22.7	21.6	9.3	3.5		
MSH-017	17	0.669	16.10		0.10	1.00	0.45	15.75		0.90	0.64	23.7	22.6	9.9	4.0		
MSH-018	18	0.708	17.00		0.10	1.20	0.50	16.65		1.10	0.92	26.2	25.0	16.0	4.4		
MSH-019	19	0.748	17.95	-0.15	0.10	1.20	0.53	17.60	+0.15 -0.25	1.10	0.95	27.2	25.9	16.9	4.9		
MSH-020	20	0.787	18.85		0.10	1.20	0.58	18.35		1.10	1.0	28.2	26.8	17.8	5.7		
MSH-021	21	0.826	19.80		0.10	1.20	0.60	19.40		1.10	1.1	29.2	27.7	18.6	6.2		
MSH-022	22	0.866	20.70	-0.15	0.10	1.20	0.65	20.30	+0.15 -0.25	1.10	1.3	30.3	28.7	19.6	7.0		
MSH-023	23	0.905	21.65		0.10	1.20	0.67	21.25		1.10	1.4	31.3	29.6	20.5	7.6		
MSH-024	24	0.945	22.60		0.10	1.20	0.70	22.20		1.10	1.5	34.1	32.4	21.4	8.2		
MSH-025	25	0.984	23.50	-0.15	0.10	1.20	0.75	23.10	+0.15 -0.25	1.10	1.6	35.1	33.3	22.3	9.2		
MSH-026	26	1.023	24.50		0.10	1.20	0.75	24.05		1.10	1.8	36.0	34.2	23.2	9.6		
MSH-027	27	1.063	25.45		0.10	1.40	0.78	24.95		1.30	2.2	37.8	35.9	28.4	10.3		
MSH-028	28	1.102	26.40	-0.20	0.10	1.40	0.80	25.80	+0.25 -0.40	1.30	2.3	38.8	36.9	28.4	11.0		
MSH-030	30	1.181	28.35		0.15	1.40	0.83	27.90		1.30	2.5	40.8	38.8	31.6	12.3		
MSH-032	32	1.260	30.20		0.15	1.40	0.90	29.60		1.30	2.8	42.8	40.7	33.6	14.1		
MSH-034	34	1.339	32.00	-0.20	0.15	1.40	1.00	31.40	+0.25 -0.40	1.30	3.1	44.9	42.5	36.0	16.7		
MSH-035	35	1.378	32.90		0.15	1.40	1.05	32.30		1.30	3.3	45.9	43.4	37.0	18.1		
MSH-036	36	1.417	33.85		0.15	1.40	1.06	33.25		1.30	3.6	48.6	46.1	38.0	18.9		
MSH-038	38	1.496	35.80	-0.30	0.15	1.40	1.10	35.20	+0.35 -0.50	1.30	4.0	50.6	48.0	40.0	20.5		
MSH-040	40	1.575	37.70		0.15	1.75	1.15	36.75		1.60	5.6	54.0	51.3	52.0	22.6		
MSH-042	42	1.654	39.60		0.15	1.75	1.20	38.80		1.60	6.3	56.0	53.2	54.0	24.8		
MSH-043	43	1.683	40.50	-0.30	0.15	1.75	1.25	39.65	1.60	6.7	57.0	54.0	55.0	26.4			

*Sizes -4 thru -6 standard material- carbon steel; optional material- beryllium copper.

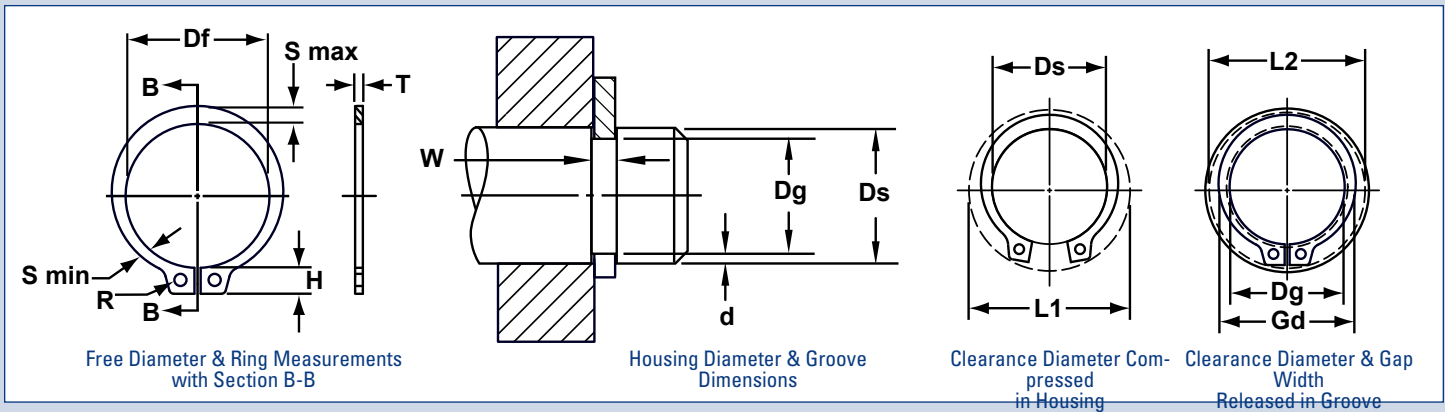
** F.I.M. (Full indicator movement)- maximum allowable deviation of concentricity between groove & shaft.

† 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 0.05 To the listed maximum thickness (t) and beveled end thickness (u) values.

ONCE INSTALLED IN THE GROOVE OF A SHAFT, THE SHOULDER HOLDS AN ASSEMBLY IN PLACE.



RING NO.	SHAFT DIAMETER		GROOVE SIZE							RING SIZE & WEIGHT				CLEARANCE DIA.		↑ THRUST LD (kN) Sqr. corner abutment	
			DIAMETER			WIDTH		DEPTH	FREE DIAMETER		THICKNESS ***		Wt. Per 1000 pcs.	L1	L2	Ring (Safety Factor of 4)	Groove (Safety Factor of 2)
	Ds mm	Ds INCH	Dg	tol	F.I.M.**	W	tol	d	Df	tol	T	tol	kg	L1	L2	Pr	Pg
MSH-045	45	1.772	42.40	-0.30	0.15	1.75	+0.20	1.30	41.60	+0.35 -0.50	1.60	±0.08	7.0	59.0	55.9	58.0	28.8
MSH-046	46	1.811	43.30		0.15	1.75		1.35	42.55		1.60		7.3	60.0	56.8	59.0	30.4
MSH-048	48	1.890	45.20		0.15	1.75		1.40	44.40		1.60		7.7	62.4	59.1	62.0	33.0
MSH-050	50	1.969	47.20		0.15	1.75		1.40	46.20		1.60		8.2	64.4	61.1	64.0	35.0
MSH-054	54	2.126	51.00		0.15	2.15		1.50	49.90		2.00		11.8	69.6	66.1	87.0	40.0
MSH-055	55	2.165	51.80		0.15	2.15		1.60	50.60		2.00		11.9	70.6	66.9	89.0	44.0
MSH-057	57	2.244	53.80	-0.40	0.20	2.15	1.60	52.90	2.00	12.5	72.6	68.9	91.0	45.0			
MSH-058	58	2.283	54.70		0.20	2.15	1.65	53.60	2.00	12.6	73.6	69.8	93.0	46.0			
MSH-060	60	2.362	56.70		0.20	2.15	1.65	55.80	2.00	13.2	75.6	71.8	97.0	49.0			
MSH-062	62	2.441	58.60		0.20	2.15	1.70	57.30	2.00	13.4	77.6	73.6	100.0	52.0			
MSH-065	65	2.559	61.60		0.20	2.15	1.70	60.40	2.00	15.4	80.6	76.6	105.0	54.0			
MSH-068	68	2.677	64.50		0.20	2.15	1.75	63.10	2.00	16.3	83.6	79.5	110.0	58.0			
MSH-070	70	2.756	66.40		0.20	2.55	1.80	64.60	2.40	19.3	88.1	83.9	136.0	62.0			
MSH-072	72	2.835	68.30		0.20	2.55	1.85	66.60	2.40	20.6	90.1	85.8	140.0	65.0			
MSH-075	75	2.953	71.20		0.20	2.55	1.90	69.00	2.40	22.6	93.1	88.7	147.0	69.0			
MSH-078	78	3.071	74.00		0.20	2.55	2.00	72.00	2.40	21.5	95.4	92.1	151.0	76.0			
MSH-080	80	3.150	75.90		0.20	2.55	2.05	74.20	2.40	26.8	97.9	93.1	155.0	80.0			
MSH-082	82	3.228	77.80		0.20	2.55	2.10	76.40	2.40	28.1	100.0	95.1	159.0	84.0			
MSH-085	85	3.346	80.60	0.20	2.55	2.20	78.60	2.40	29.0	103.0	97.9	165.0	91.0				
MSH-088	88	3.464	83.50	0.20	2.95	2.25	81.40	2.80	32.2	107.0	100.8	199.0	97.0				
MSH-090	90	3.543	85.40	0.20	2.95	2.30	83.20	2.80	33.1	109.0	103.6	204.0	101.0				
MSH-095	95	3.740	90.20	0.20	2.95	2.40	88.10	2.80	37.6	114.0	108.6	215.0	112.0				
MSH-100	100	3.852	95.20	0.20	2.95	2.42	92.50	2.80	43.1	119.5	113.7	227.0	123.0				

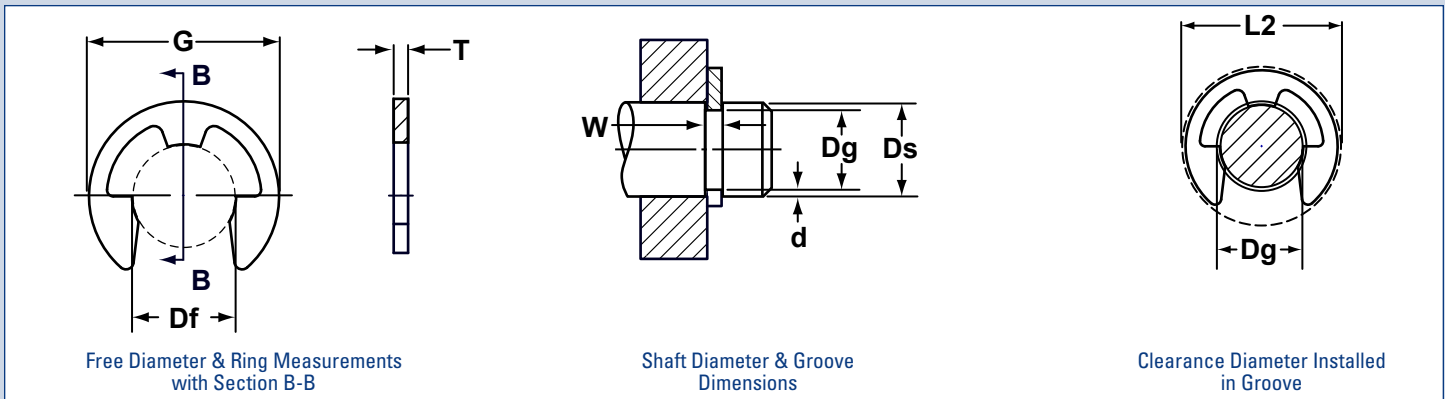
** F.I.M. (Full indicator movement)- maximum allowable deviation of concentricity between groove & shaft.

↑ 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 0.05 To the listed maximum thickness (t) and beveled end thickness (u) values.

THE THREE PRONGS OF THIS RING MAKE CONTACT WITH THE BOTTOM OF THE GROOVE FOR EFFECTIVE RETENTION OF AN ASSEMBLY.



RING NO.	SHAFT DIAMETER		GROOVE SIZE						RING SIZE & WEIGHT				CLEARANCE		↑ THRUST LD (kN) Sqr. Corner Abutment		
			DIAMETER			WIDTH		DEPTH	FREE DIAMETER		THICKNESS***	Wt. Per 1000 Pcs.	Free Out-Side Dia. Ref.	L2	Ring (Safety factor of 3)	Groove (Safety factor of 2)	
	Ds mm	Ds DEC	Dg	Tol.	F.I.M.**	W	Tol.	d	Df	Tol.	T	Tol.	kg	G	L2	Pr	Pg
ME-001*	1	.039	0.72	-0.05	0.04	0.32	+0.05	0.14	0.64	+0.03 -0.08	0.25	±0.05	0.004	2.0	2.2	0.06	0.02
ME-002	2	.079	1.45		0.04	0.32		0.28	1.30		0.25		0.014	4.0	4.3	0.13	0.09
ME-003	3	.118	2.30	-0.08	0.04	0.50	+0.10	0.35	2.10	+0.05 -0.10	0.40	±0.06	0.036	5.6	6.0	0.30	0.17
ME-004	4	.157	3.10		0.05	0.70		0.45	2.90		0.60		0.095	7.2	7.6	0.70	0.30
ME-005	5	.197	3.90		0.05	0.70		0.55	3.70		0.60		0.13	8.5	8.9	0.90	0.40
ME-006	6	.236	4.85	-0.10	0.05	0.70	+0.15	0.58	4.70	+0.10 -0.15	0.60	±0.06	0.21	11.1	11.5	1.10	0.60
ME-007	7	.275	5.55		0.08	0.70		0.73	5.25		0.60		0.34	13.4	14.0	1.20	0.80
ME-008	8	.315	6.40	-0.15	0.08	0.70	+0.15	0.80	6.15	+0.10 -0.15	0.60	±0.06	0.35	14.6	15.1	1.40	1.00
ME-009	9	.354	7.20		0.08	1.00		0.90	6.80		0.90		0.58	15.8	16.5	3.00	1.30
ME-010	10	.393	8.00		0.08	1.00		1.00	7.60		0.90		0.68	16.8	17.5	3.40	1.60
ME-011	11	.433	8.90	-0.15	0.10	1.00	+0.15	1.05	8.55	+0.10 -0.15	0.90	±0.06	0.68	17.4	18.0	3.70	1.90
ME-012	12	.472	9.60		0.10	1.20		1.20	9.20		1.10		1.00	18.6	19.3	4.90	2.30
ME-013	13	.512	10.30	-0.20	0.10	1.20	+0.15	1.35	9.95	+0.10 -0.15	1.10	±0.06	1.13	20.3	21.0	5.40	2.90
ME-015	15	.591	11.80		0.10	1.20		1.60	11.40		1.10		1.40	22.8	23.5	6.20	4.00
ME-016	16	.630	12.50		0.10	1.20		1.75	12.15		1.10		1.45	23.8	24.5	6.60	4.50
ME-018	18	.709	14.30	-0.20	0.10	1.40	+0.15	1.85	13.90	+0.10 -0.15	1.30	±0.06	2.3	27.2	27.9	8.70	5.40
ME-020	20	.787	16.00		0.10	1.40		2.00	15.60		1.30		2.8	30.0	30.7	9.80	6.50
ME-022	22	.866	17.40	-0.20	0.10	1.40	+0.15	2.30	17.00	+0.10 -0.15	1.30	±0.06	3.4	33.0	33.7	10.80	8.10
ME-025	25	.984	20.00		0.10	1.40		2.50	19.50		1.30		4.2	37.1	37.9	12.20	10.10

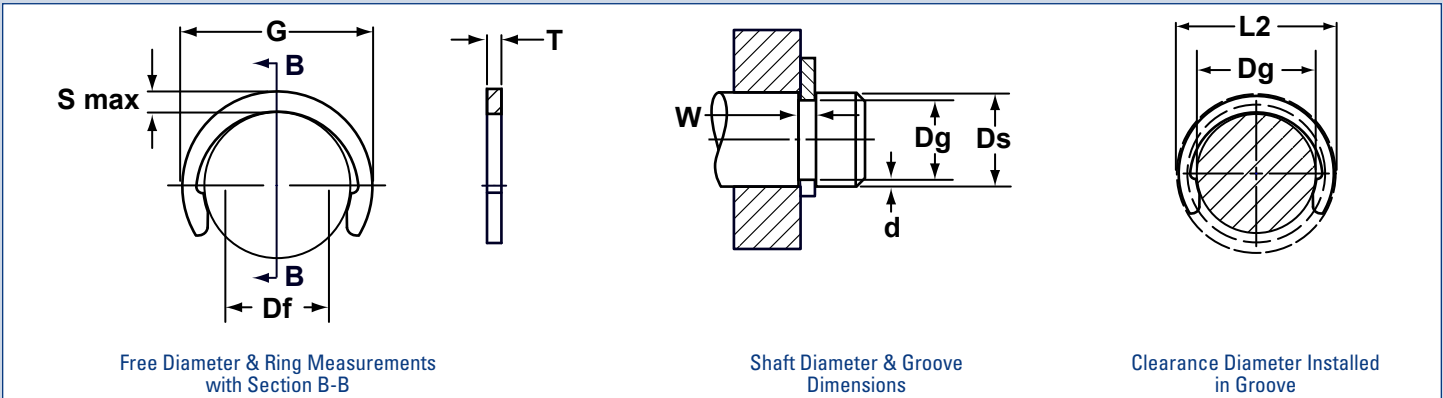
* Available in beryllium copper only.

** F.I.M. (Full indicator movement)- maximum allowable deviation of concentricity between groove and shaft.

† Based on grooves 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 0.05 To the listed maximum thickness. Maximum thickness will be a minimum of 0.005 Less than the Listed groove width (w) minimum.

IDEAL FOR LOW CLEARANCE APPLICATIONS WHERE RADIAL INSTALLATION IS PREFERRED.



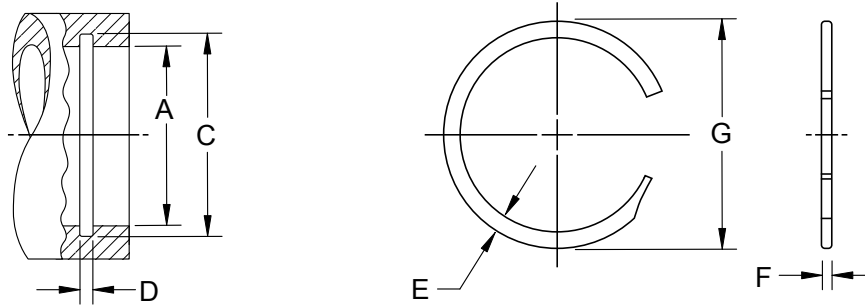
RING NO.	SHAFT DIAMETER		GROOVE SIZE						RING SIZE & WEIGHT				Wt. Per 1000 Pcs.	Free Outside Dia. Ref.	L2	↑ THRUST LD (kN) Sqr. Corner Abutment		
			DIAMETER			WIDTH		DEPTH	FREE DIAMETER		THICKNESS***					Ring (Safety factor of 3)	Groove (Safety factor of 2)	
			Ds mm	Ds DEC	Dg	Tol.	F.I.M.*	W	Tol.	d	Df	Tol.				T	Tol.	kg
MC-003	3	0.118	2.3	-0.05	0.04	0.5	+0.10	0.35	2.18	±0.06	0.4	±0.06	0.019	3.98	4.3	0.4	0.2	
MC-004	4	0.157	3.2	-0.07	0.04	0.5		0.40	3.00		0.6		0.4	0.025	5.00	5.4	0.5	0.4
MC-005	5	0.197	4.0		0.06	0.7		0.50	3.80		0.6		0.6	0.055	6.20	6.6	0.9	0.6
MC-006	6	0.236	5.0		0.06	0.7	0.50	4.80	0.6	0.6	0.072	7.40	7.8	1.1	0.7			
MC-007	7	0.276	6.0	-0.10	0.06	0.7	+0.15	0.50	5.80	±0.09	0.6	±0.08	0.090	8.60	9.0	1.3	0.8	
MC-008	8	0.315	7.0		0.06	0.7		0.50	6.80		0.6		0.6	0.12	10.00	10.4	1.5	1.0
MC-009	9	0.354	8.0		0.06	0.7		0.50	7.80		0.6		0.6	0.13	11.20	11.6	2.2	1.1
MC-010	10	0.393	9.0	-0.10	0.06	0.7	+0.15	0.50	8.75	±0.09	0.6	±0.06	0.15	12.15	12.6	2.3	1.2	
MC-011	11	0.433	10.0		0.10	0.7		0.50	9.65		0.6		0.6	0.17	13.20	13.8	2.6	1.3
MC-012	12	0.472	10.9		0.10	0.7		0.55	10.55		0.6		0.6	0.20	14.35	15.0	2.8	1.6
MC-013	13	0.512	11.8	-0.10	0.10	1.1	+0.15	0.60	11.40	±0.18	1.0	±0.06	0.39	15.40	16.1	4.9	1.9	
MC-014	14	0.551	12.7		0.10	1.1		0.65	12.30		1.0		1.0	0.42	16.30	17.0	5.5	2.1
MC-015	15	0.591	13.6		0.10	1.1		0.70	13.20		1.0		1.0	0.50	17.40	18.1	6.0	2.5
MC-016	16	0.630	14.5	-0.10	0.10	1.1	+0.15	0.75	14.10	±0.18	1.0	±0.06	0.51	18.50	19.2	6.3	2.9	
MC-017	17	0.669	15.4		0.10	1.1		0.80	14.90		1.0		1.0	0.55	19.40	20.2	6.7	3.3
MC-018	18	0.708	16.3		0.10	1.3		0.85	15.80		1.2		1.2	0.67	20.40	21.3	8.5	3.6
MC-019	19	0.748	17.2	-0.10	0.15	1.3	+0.15	0.90	16.70	±0.21	1.2	±0.06	0.85	21.50	22.4	9.0	4.2	
MC-020	20	0.787	18.1		0.15	1.3		0.95	17.55		1.2		1.2	0.85	22.65	23.6	9.5	4.6
MC-022	22	0.866	19.9		0.15	1.3		1.05	19.40		1.2		1.2	1.07	25.00	25.9	10.4	5.6
MC-023	23	0.905	20.8	-0.10	0.15	1.3	+0.15	1.10	20.20	±0.21	1.2	±0.06	1.15	26.00	27.0	10.9	6.1	
MC-024	24	0.945	21.7		0.15	1.3		1.15	21.10		1.2		1.2	1.2	27.10	28.1	11.3	6.7
MC-025	25	0.984	22.6		0.15	1.3		1.20	22.00		1.2		1.2	1.4	28.30	29.3	11.8	7.4
MC-026	26	1.023	23.5	-0.10	0.15	1.3	+0.15	1.25	22.90	±0.21	1.2	±0.06	1.5	29.40	30.4	12.2	7.8	
MC-028	28	1.062	25.2		0.15	1.75		1.40	24.60		1.6		1.6	2.5	31.60	32.6	17.6	9.5
MC-030	30	1.181	27.0		0.15	1.75		1.50	26.30		1.6		1.6	2.6	33.70	34.9	19.2	10.8
MC-032	32	1.260	28.8	-0.10	0.15	1.75	+0.15	1.60	28.10	±0.25	1.6	±0.08	3.2	36.10	37.3	20.5	12.2	
MC-035	35	1.378	31.5		0.15	1.75		1.75	30.80		1.6		1.6	3.5	39.40	40.6	22.4	14.7
MC-036	36	1.417	32.4		0.20	1.75		1.80	31.70		1.6		1.6	4.1	40.50	41.7	23.1	15.7
MC-038	38	1.496	34.2	-0.10	0.20	1.75	+0.15	1.90	33.40	±0.25	1.6	±0.08	4.3	42.60	43.9	23.8	17.2	
MC-040	40	1.575	36.0		0.20	1.75		2.00	35.20		1.6		1.6	4.7	45.00	46.3	25.6	19.6
MC-042	42	1.654	37.8		0.20	1.75		2.10	37.00		1.6		1.6	5.0	47.20	48.5	27.5	21.0
MC-045	45	1.772	40.5	-0.10	0.20	1.75	+0.15	2.25	39.60	±0.39	1.6	±0.08	5.4	50.60	52.1	28.4	24.5	
MC-048	48	1.890	43.2		0.20	1.75		2.40	42.30		1.6		1.6	7.1	54.10	55.6	29.9	27.5
MC-050	50	1.969	45.0		0.20	2.15		2.50	44.00		2.0		2.0	8.9	56.40	58.0	40.0	30.4
MC-052	52	2.047	47.0	-0.10	0.20	2.15	+0.15	2.50	6.00	±0.39	2.0	±0.08	9.3	58.60	60.3	41.0	31.3	
MC-055	55	2.165	50.0		0.20	2.15		2.50	48.50		2.0		2.0	10.4	61.50	63.7	43.0	33.3

*F.I.M.(Full indicator movement)-maximum allowable deviation of concentricity between groove and shaft.

† 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 dept.

*** For plated rings add 0.05 To the listed maximum thickness. Maximum ring thickness will be a minimum Of 0.005 less than the listed groove width (w) minimum.

RINGS ARE AXIALLY ASSEMBLED.



The Maximum Groove Bottom Radius is .005" for rings 50 to 100. .010 for rings 101 and larger

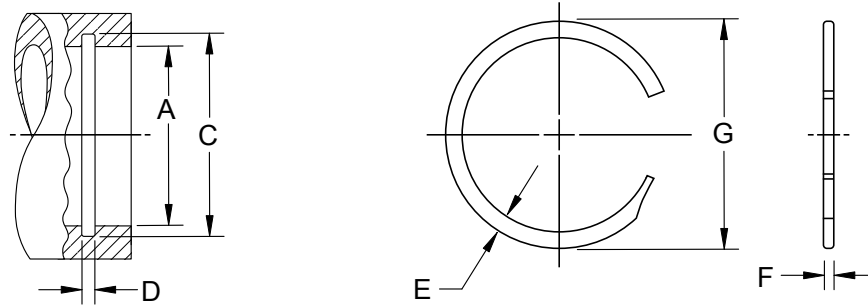
RING NO.	HOUSING DIAMETER			GROOVE SIZE				RING SIZE & WEIGHT					Maximum Corner		THRUST LOAD (PSI)		
	A DEC	A FRAC	A mm	DIAMETER		WIDTH		Radial Wall	FREE DIAMETER		THICKNESS*		Weight Per 1000 Pcs.	Radius	Chamfer	Based on Ring Shear	Based on Groove Yield
				C	Tol.	D	Tol.		E [^]	G	Tol.	F					
UR-0050	0.500	1/2	12.7	0.528	±.002	0.022	+.002 -.000	0.045	0.531	+.013 -.000	0.018	±.0015	0.28	0.007	0.005	1,300	530
UR-0056	0.562	9/16	14.3	0.590		0.022		0.045	0.593		0.018		0.33	0.007	0.005	1,460	660
UR-0062	0.625	5/8	15.9	0.653		0.022		0.045	0.656		0.018		0.37	0.007	0.005	1,630	810
UR-0068	0.687	11/16	17.5	0.715		0.022		0.045	0.719		0.018		0.41	0.007	0.005	1,790	960
UR-0075	0.750	3/4	19.0	0.779	±.003	0.022	+.002 -.000	0.045	0.783	+.013 -.000	0.018	±.0015	0.46	0.007	0.005	1,950	1,090
UR-0081	0.812	13/16	20.6	0.854		0.026		0.065	0.862		0.021		0.82	0.011	0.008	2,460	1,705
UR-0087	0.875	7/8	22.2	0.917		0.026		0.065	0.926		0.021		0.90	0.011	0.008	2,660	1,840
UR-0093	0.937	15/16	23.8	0.979		0.026		0.065	0.989		0.021		0.97	0.011	0.008	2,840	1,970
UR-0100	1.000	1	25.4	1.042	±.004	0.026	+.002 -.000	0.065	1.052	+.015 -.000	0.021	±.0015	1.04	0.011	0.008	3,030	2,100
UR-0106	1.062	1-1/16	27.0	1.106		0.031		0.088	1.117		0.025		1.74	0.016	0.012	3,500	2,340
UR-0112	1.125	1-1/8	29.0	1.169		0.031		0.088	1.181		0.025		1.86	0.016	0.012	3,710	2,480
UR-0118	1.187	1-3/16	30.2	1.231		0.031		0.088	1.242		0.025		1.97	0.016	0.012	3,910	2,615
UR-0125	1.250	1-1/4	31.7	1.294	±.005	0.031	+.003 -.000	0.088	1.317	+.020 -.000	0.025	±.002	2.11	0.016	0.012	4,120	2,755
UR-0131	1.312	1-5/16	33.3	1.356		0.031		0.088	1.369		0.025		2.21	0.016	0.012	4,330	2,890
UR-0137	1.375	1-3/8	34.9	1.419		0.031		0.088	1.433		0.025		2.33	0.016	0.012	4,530	3,030
UR-0143	1.437	1-7/16	36.5	1.481		0.031		0.088	1.496		0.025		2.45	0.016	0.012	4,740	3,165
UR-0150	1.500	1-1/2	38.1	1.544	±.006	0.031	+.003 -.000	0.088	1.559	+.025 -.000	0.025	±.002	2.57	0.016	0.012	4,950	3,305
UR-0156	1.562	1-9/16	39.6	1.609		0.039		0.118	1.637		0.031		4.40	0.022	0.016	6,390	4,455
UR-0162	1.625	1-5/8	41.7	1.682		0.039		0.118	1.701		0.031		4.60	0.022	0.016	6,650	4,635
UR-0168	1.687	1-11/16	42.8	1.744		0.039		0.118	1.763		0.031		4.79	0.022	0.016	6,900	4,815
UR-0175	1.750	1-3/4	44.4	1.807	±.003 -.000	0.039	+.003 -.000	0.118	1.827	+.020 -.000	0.031	±.002	5.00	0.022	0.016	7,160	4,990
UR-0181	1.812	1-13/16	46.0	1.869		0.039		0.118	1.890		0.031		5.19	0.022	0.016	7,410	5,170
UR-0187	1.875	1-7/8	47.6	1.932		0.039		0.118	1.953		0.031		5.39	0.022	0.016	7,670	5,350
UR-0193	1.937	1-15/16	49.2	1.994		0.039		0.118	2.016		0.031		5.59	0.022	0.016	7,920	5,525
UR-0200	2.000	2	50.8	2.057	±.006	0.039	+.003 -.000	0.118	2.079	+.025 -.000	0.031	±.002	5.79	0.022	0.016	8,180	5,710
UR-0206	2.062	2-1/16	52.3	2.138		0.039		0.158	2.162		0.031		7.76	0.029	0.022	8,430	7,845
UR-0212	2.125	2-1/8	53.9	2.201		0.039		0.158	2.226		0.031		8.03	0.029	0.022	8,690	8,085
UR-0218	2.187	2-3/16	55.5	2.263		0.039		0.158	2.289		0.031		8.30	0.029	0.022	8,940	8,320
UR-0225	2.250	2-1/4	57.1	2.326	±.006	0.039	+.003 -.000	0.158	2.352	+.025 -.000	0.031	±.002	8.57	0.029	0.022	9,200	8,560
UR-0231	2.312	2-5/16	58.7	2.388		0.039		0.158	2.415		0.031		8.83	0.029	0.022	9,460	8,800
UR-0237	2.375	2-3/8	60.3	2.451		0.039		0.158	2.478		0.031		9.10	0.029	0.022	9,710	9,035
UR-0243	2.437	2-7/16	61.9	2.513		0.039		0.158	2.541		0.031		9.36	0.029	0.022	9,970	9,270
UR-0250	2.500	2-1/2	63.5	2.576	±.006	0.039	+.003 -.000	0.158	2.605	+.025 -.000	0.031	±.002	9.63	0.029	0.022	10,220	9,510
UR-0256	2.562	2-9/16	65.1	2.638		0.039		0.158	2.667		0.031		9.89	0.029	0.022	10,480	9,750
UR-0262	2.625	2-5/8	66.6	2.701		0.039		0.158	2.731		0.031		10.16	0.029	0.022	10,740	9,990

* "F" ring thickness applies only to unplated rings. Add .001 To upper thickness tolerance for plated rings. Groove widths upper will accept plated rings without modification.

**See design information on page 5, ^see tolerance on page 6

The maximum groove bottom radius is .005" For rings 50 to 100 and .010" For rings 101 and larger.

RINGS ARE AXIALLY ASSEMBLED.



The Maximum Groove Bottom Radius is .005" for rings 50 to 100. .010 for rings 101 and larger

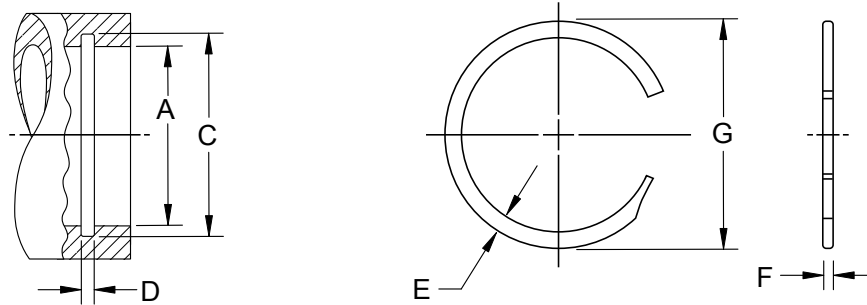
RING NO.	HOUSING DIAMETER			GROOVE SIZE				RING SIZE & WEIGHT					Maximum Corner		THRUST LOAD (PSI)		
	A DEC	A FRAC	A mm	DIAMETER		WIDTH		Radial Wall	FREE DIAMETER		THICKNESS*		Weight Per 1000 Pcs.	Radius	Chamfer	Based on Ring Shear	Based on Groove Yield
				C	Tol.	D	Tol.	E [^]	G	Tol.	F	Tol.					
UR-0268	2.687	2-11/16	68.2	2.763		0.039		0.158	2.794		0.031		10.43	0.029	0.022	10,990	10,225
UR-0275	2.750	2-3/4	69.8	2.826		0.039		0.158	2.857		0.031		10.70	0.029	0.022	11,250	10,465
UR-0281	2.812	2-13/16	71.4	2.888		0.039		0.158	2.920	+0.025	0.031		10.96	0.029	0.022	11,500	10,700
UR-0287	2.875	2-7/8	73.0	2.951		0.039		0.158	2.983	-0.000	0.031		11.22	0.029	0.022	11,760	10,940
UR-0293	2.937	2-15/16	74.5	3.013		0.039		0.158	3.046		0.031		11.49	0.029	0.022	12,010	11,175
UR-0300	3.000	3	76.1	3.076		0.039		0.158	3.110		0.031		11.76	0.029	0.022	12,270	11,415
UR-0306	3.062	3-1/16	77.7	3.154		0.044		0.158	3.187		0.039		17.77	0.035	0.026	15,760	14,105
UR-0312	3.125	3-1/8	79.3	3.217		0.044		0.158	3.251		0.039		18.18	0.035	0.026	16,080	14,395
UR-0318	3.187	3-3/16	81.0	3.279		0.044		0.158	3.314		0.039		18.58	0.035	0.026	16,400	14,680
UR-0325	3.250	3-1/4	82.5	3.342		0.044		0.158	3.377		0.039		18.98	0.035	0.026	16,720	14,970
UR-0331	3.312	3-5/16	84.4	3.404		0.044	+0.003	0.158	3.440		0.039		19.38	0.035	0.026	17,040	15,255
UR-0337	3.375	3-3/8	85.8	3.467		0.044	-0.000	0.158	3.504		0.039		19.79	0.035	0.026	17,370	15,545
UR-0343	3.437	3-7/16	87.2	3.529		0.044		0.158	3.566		0.039		20.18	0.035	0.026	17,690	15,830
UR-0350	3.500	3-1/2	88.8	3.592		0.044		0.158	3.630	+0.030	0.039		20.58	0.035	0.026	18,010	16,120
UR-0356	3.562	3-9/16	90.5	3.654		0.044		0.158	3.692	-0.000	0.039		20.98	0.035	0.026	18,330	16,410
UR-0362	3.625	3-5/8	92.0	3.717	±0.006	0.044		0.158	3.766		0.039		21.45	0.035	0.026	18,650	16,700
UR-0368	3.687	3-11/16	93.6	3.779		0.044		0.158	3.819		0.039		21.79	0.035	0.026	18,970	16,985
UR-0375	3.750	3-3/4	95.2	3.842		0.044		0.158	3.892		0.039	±0.002	22.25	0.035	0.026	19,300	17,290
UR-0381	3.812	3-13/16	97.1	3.904		0.044		0.158	3.945		0.039		25.59	0.035	0.026	19,620	17,560
UR-0387	3.875	3-7/8	98.3	3.967		0.044		0.158	4.009		0.039		22.98	0.035	0.026	19,940	17,850
UR-0393	3.937	3-15/16	99.9	4.029		0.044		0.158	4.071		0.039		23.39	0.035	0.026	20,260	18,135
UR-0400	4.000	4	101.5	4.092		0.044		0.188	4.135		0.039		23.80	0.035	0.026	20,580	18,425
UR-0412	4.125	4-1/8	104.8	4.235		0.052		0.188	4.279		0.046		34.33	0.042	0.031	23,840	22,720
UR-0425	4.250	4-1/4	107.9	4.360		0.052		0.188	4.405		0.046		35.46	0.042	0.031	24,570	23,410
UR-0437	4.375	4-3/8	111.0	4.485		0.052		0.188	4.531		0.046		36.60	0.041	0.031	25,290	24,095
UR-0450	4.500	4-1/2	114.2	4.610		0.052		0.188	4.658	+0.035	0.046		37.74	0.042	0.031	26,010	24,785
UR-0462	4.625	4-5/8	117.4	4.735		0.052		0.188	4.784	-0.000	0.046		38.88	0.042	0.031	26,730	25,475
UR-0475	4.750	4-3/4	120.6	4.860		0.052		0.188	4.910		0.046		40.01	0.042	0.031	27,460	26,165
UR-0487	4.875	4-5/8	123.8	4.985		0.052	+0.004	0.188	5.036	-0.000	0.046		41.06	0.042	0.031	28,180	26,850
UR-0500	5.000	5	126.9	5.110		0.052		0.188	5.163		0.046		42.29	0.042	0.031	28,900	27,540
UR-0525	5.250	5-1/4	133.4	5.381		0.067		0.188	5.435		0.061		58.20	0.040	0.030	40,240	34,435
UR-0550	5.500	5-1/2	139.7	5.638		0.067		0.188	5.694		0.061		61.31	0.039	0.029	42,160	38,005
UR-0575	5.750	5-3/4	146.1	5.894	±0.007	0.067		0.225	5.953	+0.045	0.061		64.42	0.038	0.028	44,080	41,460
UR-0600	6.000	6	152.4	6.150		0.067		0.265	6.212	-0.000	0.061		78.97	0.047	0.035	45,990	45,065
UR-0625	6.250	6-1/4	158.8	6.406	±0.008	0.067		0.265	6.470		0.061		82.62	0.046	0.035	47,910	48,820

* "F" ring thickness applies only to unplated rings. Add .001 To upper thickness tolerance for plated rings. Groove widths upper will accept plated rings without modification.

**See design information on page 5, ^see tolerance on page 6

The maximum groove bottom radius is .005" For rings 50 to 100 and .010" For rings 101 and larger.

RINGS ARE AXIALLY ASSEMBLED.



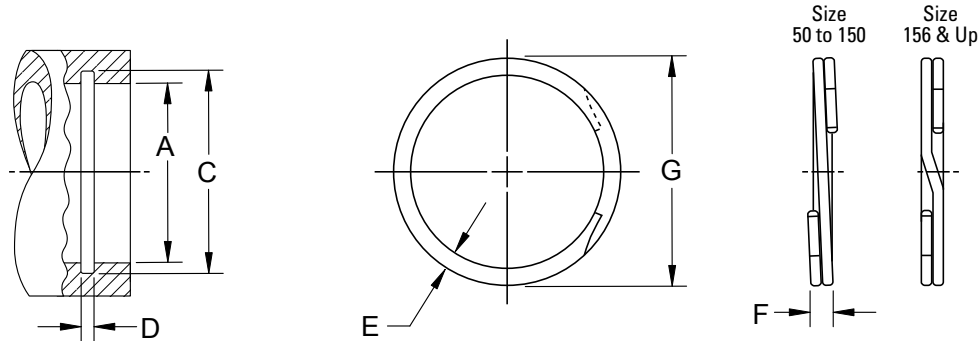
The Maximum Groove Bottom Radius is .005" for rings 50 to 100. .010" for rings 101 and larger

RING NO.	HOUSING DIAMETER			GROOVE SIZE				RING SIZE & WEIGHT						Maximum Corner		THRUST LOAD (PSI)		
	A DEC	A FRAC	A mm	DIAMETER		WIDTH		Radial Wall	FREE DIAMETER			THICKNESS*		Weight Per 1000 Pcs.	Radius	Chamfer	Based on Ring Shear	Based on Groove Yield
				C	Tol.	D	Tol.		E [^]	G	Tol.	F	Tol.					
UR-0650	6.500	6-1/2	165.1	6.663		0.067		0.265	6.730		0.061		85.15	0.046	0.034	49,830	53,050	
UR-0675	6.750	6-3/4	171.5	6.919		0.067		0.265	6.988	+0.045	0.061		88.80	0.045	0.033	51,740	57,120	
UR-0700	7.000	7	177.8	7.175		0.067		0.265	7.247	-0.000	0.061		92.47	0.044	0.033	53,660	61,340	
UR-0725	7.250	7-1/4	184.2	7.431		0.067		0.265	7.505		0.061		96.12	0.043	0.032	55,570	65,705	
UR-0750	7.500	7-1/2	190.5	7.688		0.067		0.265	7.765		0.061		99.79	0.042	0.032	57,490	70,600	
UR-0775	7.750	7-3/4	196.9	7.944		0.067		0.300	8.023		0.061		115.90	0.050	0.038	594,110	75,285	
UR-0800	8.000	8	203.2	8.200		0.067		0.300	8.282	+0.060	0.061		120.05	0.050	0.037	61,320	80,115	
UR-0825	8.250	8-1/4	209.6	8.456	±.008	0.067		0.300	8.541	-0.000	0.061	±.002	124.20	0.049	0.037	63,240	85,100	
UR-0850	8.500	8-1/2	215.9	8.713		0.067		0.300	8.800		0.061		128.34	0.048	0.036	65,160	90,655	
UR-0875	8.750	8-3/4	222.3	8.969		0.082		0.345	9.059		0.076		191.94	0.059	0.044	83,570	95,950	
UR-0900	9.000	9	228.6	9.225		0.082		0.345	9.317		0.076		197.02	0.058	0.043	85,950	101,395	
UR-0925	9.250	9-1/4	235.0	9.481		0.082		0.345	9.576		0.076		203.07	0.057	0.043	88,341	106,995	
UR-0950	9.500	9-1/2	241.3	9.738		0.082		0.345	9.835	+0.070	0.076		209.10	0.056	0.042	90,728	113,215	
UR-0975	9.750	9-3/4	247.7	9.994		0.082		0.345	10.094	-0.000	0.076		215.14	0.055	0.041	93,120	119,125	
UR-1000	10.000	10	254.0	10.250		0.082		0.345	10.353		0.076		221.18	0.055	0.041	95,500	125,185	

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**See design information on page 5, ^see tolerance on page 6

The maximum groove bottom radius is .005" For rings 50 to 100 and .010" For rings 101 and larger.



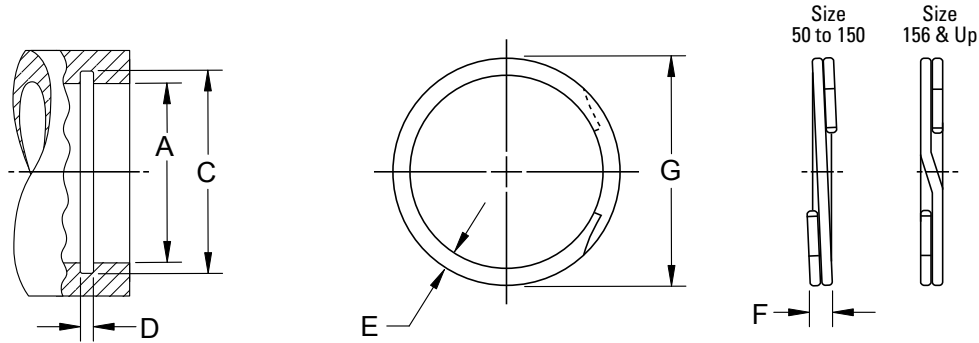
Sizes 281 & up may have optional slot. The Maximum Groove Bottom Radius is .005" for rings 50 to 100. .010 for rings 101 and larger

RING NO.	HOUSING DIAMETER			GROOVE SIZE				RING SIZE & WEIGHT					Maximum Corner		THRUST LOAD (PSI)		
	A DEC	A FRAC	A mm	DIAMETER		WIDTH		Radial Wall	FREE DIAMETER		THICKNESS*		Weight Per 1000 Pcs.	Radius	Chamfer	Based on Ring Shear	Based on Groove Yield
				C	Tol.	D	Tol.		E [^]	G	Tol.	F					
RR-0050	0.500	1/2	12.7	0.526	±.002	0.030	±.003 -.000	0.045	0.532	±.013 -.000	0.025	±.002	0.41	0.015	0.012	2,000	405
RR-0051	0.512		13.0	0.538		0.030		0.045	0.544		0.025		0.42	0.015	0.012	2,050	420
RR-0053	0.531	17/32	13.5	0.557		0.030		0.045	0.564		0.025		0.44	0.015	0.012	2,130	455
RR-0056	0.562	9/16	14.3	0.588		0.030		0.045	0.594		0.025		0.46	0.015	0.012	2,250	495
RR-0059	0.594	19/32	15.1	0.619		0.030		0.045	0.626		0.025		0.49	0.015	0.012	2,380	535
RR-0062	0.625	5/8	15.9	0.651		0.030		0.045	0.658		0.025		0.52	0.015	0.012	2,500	610
RR-0065	0.656	21/32	16.7	0.682		0.030		0.045	0.689		0.025		0.55	0.015	0.012	2,630	670
RR-0068	0.687	11/16	17.5	0.713		0.030		0.045	0.720		0.025		0.58	0.015	0.012	2,750	725
RR-0071	0.718	23/32	18.3	0.744		0.030		0.045	0.751		0.025		0.61	0.015	0.012	2,870	790
RR-0075	0.750	3/4	19.0	0.782		0.036		0.065	0.790		0.031		1.14	0.024	0.019	3,360	800
RR-0077	0.777		19.7	0.808	0.036	0.065	0.817	0.031	1.19	0.024	0.019	3,480	835				
RR-0078	0.781	25/32	19.8	0.812	0.036	0.065	0.821	0.031	1.20	0.024	0.019	3,500	840				
RR-0081	0.812	13/16	20.6	0.843	0.036	0.065	0.853	0.031	1.25	0.024	0.019	3,640	915				
RR-0084	0.843	27/32	21.4	0.880	0.036	0.065	0.889	0.031	1.32	0.022	0.018	3,780	1,155				
RR-0086	0.866		22.0	0.903	0.036	0.065	0.913	0.031	1.35	0.022	0.018	3,880	1,250				
RR-0087	0.875	7/8	22.2	0.912	0.036	0.065	0.922	0.031	1.36	0.022	0.018	3,920	1,250				
RR-0090	0.906	29/32	22.9	0.939	±.003	0.036	0.065	0.949	0.031	1.41	0.022	0.018	4,060	1,335			
RR-0093	0.938	15/16	23.8	0.975	0.036	0.065	0.986	0.031	1.48	0.022	0.018	4,200	1,430				
RR-0096	0.968	31/32	24.4	1.015	0.042	0.075	1.025	0.037	2.11	0.025	0.020	4,340	1,950				
RR-0098	0.987		25.0	1.030	0.042	0.075	1.041	0.037	2.15	0.026	0.021	4,420	1,865				
RR-0100	1.000	1	25.4	1.043	0.042	0.075	1.054	0.037	2.19	0.026	0.021	4,480	1,910				
RR-0102	1.023		26.0	1.066	0.042	0.075	1.078	0.037	2.24	0.026	0.021	5,470	1,660				
RR-0103	1.031	1-1/32	26.3	1.074	0.042	0.075	1.084	0.037	2.26	0.026	0.021	5,510	1,650				
RR-0106	1.062	1-1/16	27.0	1.104	0.042	0.075	1.117	0.037	2.32	0.026	0.021	5,680	1,745				
RR-0109	1.093	1-3/32	27.8	1.135	0.042	0.075	1.147	0.037	2.40	0.026	0.021	5,840	1,820				
RR-0112	1.125	1-1/8	28.6	1.167	0.042	0.075	1.180	0.037	2.48	0.026	0.021	6,010	1,935				
RR-0115	1.156	1-5/32	29.3	1.198	0.042	0.075	1.210	0.037	2.55	0.026	0.021	6,180	2,020				
RR-0118	1.188	1-3/16	30.2	1.236	0.048	0.085	1.249	0.043	3.46	0.029	0.023	7,380	2,115				
RR-0121	1.218	1-7/32	31.0	1.266	0.048	0.085	1.278	0.043	3.56	0.029	0.023	7,570	2,195				
RR-0125	1.250	1-1/4	31.7	1.298	0.048	0.085	1.312	0.043	3.67	0.029	0.023	7,770	2,510				
RR-0128	1.281	1-9/32	32.6	1.329	0.048	0.085	1.342	0.043	3.76	0.029	0.023	7,960	2,425				
RR-0131	1.312	1-5/16	33.3	1.360	0.048	0.085	1.374	0.043	3.83	0.029	0.023	8,150	2,532				
RR-0134	1.343	1-11/32	34.1	1.395	0.048	0.085	1.408	0.043	3.93	0.029	0.023	8,340	2,875				
RR-0137	1.375	1-3/8	34.9	1.427	0.048	0.095	1.442	0.043	4.48	0.033	0.026	8,540	3,070				
RR-0140	1.406	1-13/32	35.8	1.458	0.048	0.095	1.472	0.043	4.59	0.033	0.026	8,740	3,180				

* "F" ring thickness applies only to unplated rings. Add .001 To upper thickness tolerance for plated rings. Groove widths upper will accept plated rings without modification.

**See design information on page 5, ^see tolerance on page 6

The maximum groove bottom radius is .005" For rings 50 to 100 and .010" For rings 101 and larger.



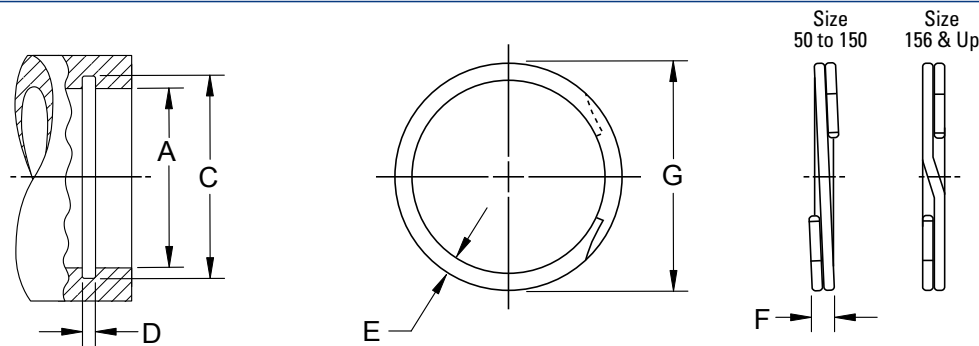
Sizes 281 & up may have optional slot. The Maximum Groove Bottom Radius is .005" for rings 50 to 100. .010 for rings 101 and larger

RING NO.	HOUSING DIAMETER			GROOVE SIZE				RING SIZE & WEIGHT					Maximum Corner		THRUST LOAD (PSI)						
	A DEC	A FRAC	A mm	DIAMETER		WIDTH		Radial Wall	FREE DIAMETER		THICKNESS*		Weight Per 1000 Pcs.	Radius	Chamfer	Based on Ring Shear	Based on Groove Yield				
				C	Tol.	D	Tol.		E [^]	G	Tol.	F						Tol.	lbs.	X**	Ch**
RR-0143	1.437	1-7/16	36.5	1.489	±.004	0.048		0.095	1.504	+.015 -.000	0.043	±.002	4.71	0.033	0.026	8,930	3,330				
RR-0145	1.456		37.0	1.508		0.048		0.095	1.523		0.043		4.77	0.033	0.026	9,050	3,410				
RR-0146	1.468	1-15/32	37.3	1.520		0.048		0.095	1.535		0.043		4.82	0.033	0.026	9,120	3,460				
RR-0150	1.500	1-1/2	38.1	1.552		0.048		0.095	1.567		0.043		4.93	0.033	0.026	9,320	3,605				
RR-0156	1.562	1-9/16	39.6	1.617	±.005	0.056		0.108	1.634	+.020 -.000	0.049		6.58	0.038	0.030	10,100	3,590				
RR-0157	1.574		40.0	1.633		0.056		0.108	1.649		0.049		6.65	0.038	0.030	10,180	3,640				
RR-0162	1.625	1-5/8	41.7	1.684		0.056		0.108	1.701		0.049		6.89	0.038	0.030	10,510	3,875				
RR-0165	1.653		42.0	1.712		0.056		0.108	1.730		0.049		7.02	0.038	0.030	10,690	4,020				
RR-0168	1.687	1-11/16	42.8	1.750		0.056		0.118	1.768		0.049		7.82	0.041	0.032	10,910	4,510				
RR-0175	1.750	1-3/4	44.4	1.813		0.056		0.118	1.834		0.049		8.15	0.041	0.032	11,310	4,895				
RR-0181	1.813	1-13/16	46.0	1.875		0.056		0.118	1.894		0.049		8.45	0.041	0.032	11,720	5,080				
RR-0185	1.850		47.0	1.917		0.056		0.118	1.937		0.049		8.67	0.041	0.032	11,960	5,735				
RR-0187	1.875	1-7/8	47.6	1.942		0.056		0.118	1.960		0.049		8.78	0.041	0.032	12,120	5,825				
RR-0193	1.938	1-15/16	49.2	2.005		0.056		0.118	2.025		0.049		9.12	0.041	0.032	12,530	6,250				
RR-0200	2.000	2	50.8	2.071		0.056		0.128	2.091		0.049		10.16	0.045	0.036	12,930	7,090				
RR-0204	2.047		52.0	2.118		0.056		0.128	2.138		0.049		10.42	0.045	0.036	13,230	7,275				
RR-0206	2.062	2-1/16	52.3	2.132	+.004 -.000	0.056		0.128	2.154		0.049	±.003	10.51	0.045	0.036	13,330	7,225				
RR-0212	2.125	2-1/8	53.9	2.195		0.056		0.128	2.217		0.049		10.86	0.045	0.036	13,740	7,450				
RR-0216	2.165		55.0	2.239		0.056		0.138	2.260		0.049		11.90	0.049	0.039	14,000	8,020				
RR-0218	2.188	2-3/16	55.5	2.262		0.056		0.138	2.284		0.049		12.04	0.049	0.039	14,150	8,105				
RR-0225	2.250	2-1/4	57.1	2.324		0.056		0.138	2.347		0.049		12.41	0.049	0.039	14,550	8,335				
RR-0231	2.312	2-5/16	58.7	2.390		0.056		0.138	2.413		0.049		12.74	0.048	0.038	14,950	9,030				
RR-0237	2.375	2-3/8	60.3	2.453		0.056		0.138	2.476		0.049		13.17	0.048	0.038	15,350	9,275				
RR-0243	2.437	2-7/16	61.9	2.519		0.056		0.148	2.543		0.049		14.49	0.052	0.041	15,760	10,005				
RR-0244	2.440		62.0	2.522		0.056		0.148	2.546		0.049		14.50	0.052	0.041	15,780	10,015				
RR-0250	2.500	2-1/2	63.5	2.582		±.006		0.056			0.148		2.606	+.025 -.000	0.049		14.69	0.052	0.044	16,160	10,625
RR-0253	2.531		64.2	2.617				0.056			0.148		2.641		0.049		14.91	0.051	0.040	16,360	10,900
RR-0256	2.562	2-9/16	65.1	2.648				0.056			0.148		2.673		0.049		15.11	0.051	0.040	16,560	11,030
RR-0262	2.625	2-5/8	66.6	2.711	0.056		0.148	2.736		0.049	15.51	0.051	0.040		16,970		11,305				
RR-0267	2.677		68.0	2.767	0.056		0.158	2.789		0.049	16.85	0.055	0.044		17,310		12,065				
RR-0268	2.688	2-11/16	68.2	2.778	0.056		0.158	2.803		0.049	16.94	0.055	0.044		17,380		12,115				
RR-0275	2.750	2-3/4	69.8	2.841	0.056		0.158	2.865		0.049	17.36	0.055	0.044		17,780		12,530				
RR-0281	2.813	2-13/16	71.4	2.903	0.056		0.158	2.929		0.049	17.79	0.055	0.044		18,190		12,675				
RR-0283	2.834		71.9	2.928	0.056		0.168	2.954		0.049	19.03	0.059	0.047		18,320		13,340				
RR-0287	2.875	2-7/8	73.0	2.969	0.056		0.168	2.995		0.049	19.32	0.059	0.047		18,590		13,530				

* "F" ring thickness applies only to unplated rings. Add .001 To upper thickness tolerance for plated rings. Groove widths upper will accept plated rings without modification.

**See design information on page 5, ^see tolerance on page 6

The maximum groove bottom radius is .005" For rings 50 to 100 and .010" For rings 101 and larger.

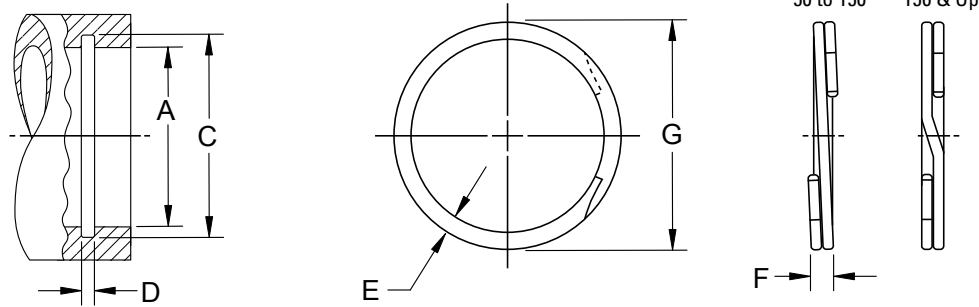


Sizes 281 & up may have optional slot. The Maximum Groove Bottom Radius is .005" for rings 50 to 100. .010 for rings 101 and larger

RING NO.	HOUSING DIAMETER			GROOVE SIZE				RING SIZE & WEIGHT					Maximum Corner		THRUST LOAD (PSI)		
	A DEC	A FRAC	A mm	DIAMETER		WIDTH		Radial Wall	FREE DIAMETER		THICKNESS*		Weight Per 1000 Pcs.	Radius	Chamfer	Based on Ring Shear	Based on Groove Yield
				C	Tol.	D	Tol.		E^	G	Tol.	F					
RR-0293	2.937	2-15/16	74.5	3.031		0.056	+0.004	0.168	3.058		0.049		19.78	0.059	0.047	18,990	13,825
RR-0295	2.952		75.0	3.046		0.056	-0.000	0.168	3.073	+0.025	0.049		19.88	0.059	0.047	19,090	13,890
RR-0300	3.000	3	76.1	3.096		0.068		0.168	3.122	-0.000	0.061		25.30	0.058	0.046	24,150	14,420
RR-0306	3.062	3-1/16	77.7	3.158		0.068		0.168	3.186		0.061		25.87	0.058	0.046	24,640	14,720
RR-0312	3.125	3-1/8	79.3	3.223		0.068		0.178	3.251		0.061		27.93	0.063	0.050	25,150	15,335
RR-0314	3.149		80.0	3.247		0.068		0.178	3.276		0.061		27.87	0.063	0.050	25,340	15,450
RR-0318	3.187	3-3/16	81.0	3.283		0.068		0.178	3.311		0.061		28.20	0.063	0.050	25,650	15,640
RR-0325	3.250	3-1/4	82.5	3.350		0.068		0.178	3.379		0.061		28.85	0.062	0.050	26,160	16,270
RR-0331	3.312	3-5/16	84.4	3.416		0.068		0.188	3.446		0.061		31.05	0.066	0.053	26,660	17,245
RR-0334	3.346		84.9	3.450		0.068		0.188	3.479		0.061		31.38	0.066	0.053	26,930	17,425
RR-0337	3.375	3-3/8	85.7	3.479		0.068		0.188	3.509		0.061		31.68	0.066	0.053	27,160	17,575
RR-0343	3.437	3-7/16	87.2	3.543		0.068		0.188	3.574		0.061		32.33	0.066	0.053	27,660	18,240
RR-0350	3.500	3-1/2	88.8	3.606		0.068		0.188	3.636		0.061		32.95	0.066	0.053	28,170	18,575
RR-0354	3.543		89.9	3.653		0.068		0.198	3.684	+0.030	0.061		35.10	0.070	0.056	28,520	19,515
RR-0356	3.562	3-9/16	90.5	3.672		0.068		0.198	3.703	-0.000	0.061		35.31	0.070	0.056	28,670	19,620
RR-0362	3.625	3-5/8	92.0	3.737		0.068		0.198	3.769		0.061		36.01	0.069	0.055	29,180	20,330
RR-0368	3.687	3-11/16	93.6	3.799		0.068		0.198	3.832		0.061		36.67	0.069	0.055	29,680	20,675
RR-0374	3.740		95.0	3.852	±.006	0.068		0.198	3.885		0.061	±.003	37.23	0.069	0.055	30,100	20,975
RR-0375	3.750	3-3/4	95.2	3.862		0.068	+0.005	0.198	3.894	-0.000	0.061		37.33	0.069	0.055	30,180	21,030
RR-0381	3.812	3-13/16	96.7	3.930		0.068		0.208	3.963		0.061		39.87	0.073	0.058	30,680	22,525
RR-0387	3.875	3-7/8	98.3	3.993		0.068		0.208	4.025		0.061		40.21	0.073	0.058	30,680	22,525
RR-0393	3.938	3-15/16	99.9	4.056		0.068		0.208	4.089		0.061		40.93	0.073	0.058	31,700	23,625
RR-0400	4.000	4	101.5	4.124		0.068		0.218	4.157		0.061		43.57	0.076	0.061	32,190	24,835
RR-0406	4.063	4-1/16	103.2	4.187		0.068		0.218	4.222		0.061		44.33	0.076	0.061	32,700	25,225
RR-0412	4.125	4-1/8	104.8	4.249		0.068		0.218	4.284		0.061		45.05	0.076	0.061	33,200	25,610
RR-0418	4.188	4-3/16	106.5	4.311		0.068		0.218	4.347		0.061		45.78	0.076	0.061	33,710	25,795
RR-0425	4.250	4-1/4	107.9	4.380		0.068		0.228	4.416		0.061		48.60	0.080	0.064	34,210	27,665
RR-0431	4.312	4-5/16	109.7	4.442		0.068		0.228	4.479		0.061		49.37	0.080	0.064	34,710	28,065
RR-0433	4.330		109.9	4.460		0.068		0.228	4.497		0.061		49.59	0.080	0.064	34,850	28,185
RR-0437	4.375	4-3/8	111.0	4.505		0.068		0.228	4.505	+0.035	0.061		50.15	0.080	0.064	32,210	28,475
RR-0443	4.437	4-7/16	112.7	4.573		0.068		0.238	4.611	-0.000	0.061		53.09	0.083	0.066	35,710	30,215
RR-0450	4.500	4-1/2	114.2	4.636		0.068		0.238	4.674		0.061		53.89	0.083	0.066	36,220	30,645
RR-0452	4.527		115.0	4.663		0.068		0.238	4.701		0.061		54.23	0.083	0.066	36,440	30,830
RR-0456	4.562	4-9/16	116.0	4.698		0.068		0.238	4.737		0.061		54.69	0.083	0.066	36,720	31,065
RR-0462	4.625	4-5/8	117.4	4.765		0.079		0.250	4.803		0.072	±.004	67.86	0.088	0.071	43,940	32,420

* "F" ring thickness applies only to unplated rings. Add .001 To upper thickness tolerance for plated rings. Groove widths upper will accept plated rings without modification.

**See design information on page 5, ^see tolerance on page 6
The maximum groove bottom radius is .005" For rings 50 to 100 and .010" For rings 101 and larger.



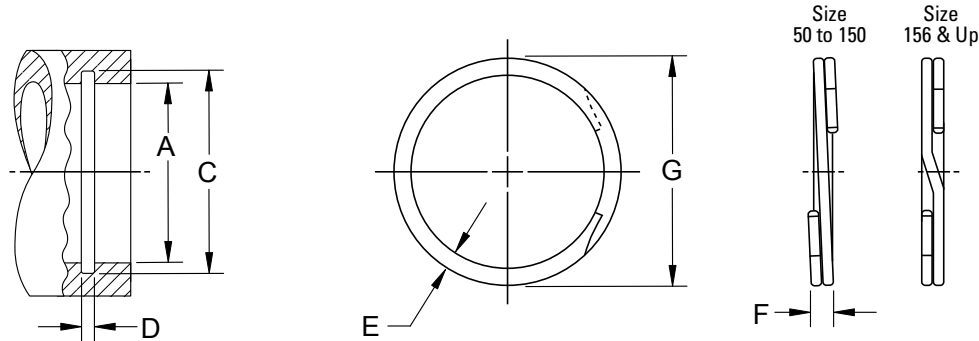
Sizes 281 & up may have optional slot. The Maximum Groove Bottom Radius is .005" for rings 50 to 100. .010 for rings 101 and larger

RING NO.	HOUSING DIAMETER			GROOVE SIZE				RING SIZE & WEIGHT					Maximum Corner		THRUST LOAD (PSI)		
	A DEC	A FRAC	A mm	DIAMETER		WIDTH		Radial Wall	FREE DIAMETER		THICKNESS*		Weight Per 1000 Pcs.	Radius	Chamfer	Based on Ring Shear SF - 3	Based on Groove Yield SF - 2
				C	Tol.	D	Tol.		E [^]	G	Tol.	F					
RR-0468	4.687	4-11/16	119.0	4.827	±.006	0.079	+0.005 -.000	0.250	4.867	+0.035 -.000	0.072	±.004	68.05	0.088	0.071	44,530	32,855
RR-0472	4.724		120.0	4.864		0.079		0.250	4.903		0.072		68.61	0.088	0.071	44,880	33,115
RR-0475	4.750	4-3/4	120.6	4.890		0.079		0.250	4.930		0.072		69.03	0.088	0.071	45,130	33,300
RR-0481	4.812	4-13/16	122.2	4.952		0.079		0.250	4.993		0.072		70.01	0.088	0.071	45,710	33,735
RR-0487	4.875	4-7/8	123.8	5.015		0.079		0.250	5.055		0.072		70.98	0.088	0.071	46,310	34,175
RR-0492	4.921		125.0	5.061		0.079		0.250	5.102		0.072		71.71	0.088	0.071	46,750	34,495
RR-0493	4.937	4-15/16	125.4	5.081		0.079		0.250	5.122		0.072		72.02	0.087	0.070	46,900	35,595
RR-0500	5.000	5	126.9	5.144		0.079		0.250	5.185		0.072		73.00	0.087	0.070	47,500	36,050
RR-0511	5.118		129.9	5.262	0.079	0.250	5.304	0.072	74.86	0.087	0.070	48,620	36,905				
RR-0512	5.125	5-1/8	130.1	5.269	0.079	0.250	5.311	0.072	74.97	0.087	0.070	48,690	36,955				
RR-0525	5.250	5-1/4	133.2	5.393	0.079	0.250	5.436	0.072	76.91	0.087	0.070	49,880	37,590				
RR-0537	5.375	5-3/8	136.5	5.522	0.079	0.250	5.566	0.072	78.94	0.086	0.069	51,050	39,565				
RR-0550	5.500	5-1/2	139.7	5.647	0.079	0.250	5.693	0.072	80.92	0.086	0.069	52,250	40,485				
RR-0551	5.511		139.9	5.638	0.079	0.250	5.703	0.072	81.07	0.086	0.069	52,350	40,565				
RR-0562	5.625	5-5/8	142.8	5.772	0.079	0.250	5.818	0.072	82.86	0.086	0.069	53,440	41,405				
RR-0570	5.708		145.0	5.861	0.079	0.250	5.909	0.072	83.63	0.086	0.069	54,230	43,730				
RR-0575	5.750	5-3/4	145.9	6.903	0.079	0.250	5.950	0.072	84.28	0.085	0.068	54,630	44,050				
RR-0587	5.875	5-7/8	149.2	6.028	0.079	0.250	6.077	0.072	86.25	0.085	0.068	55,810	45,010				
RR-0590	5.905		149.9	6.058	0.079	0.250	6.106	0.072	86.71	0.085	0.068	56,100	45,240				
RR-0600	6.000	6	152.3	6.153	0.079	0.250	6.202	0.072	88.20	0.085	0.068	57,000	45,965				
RR-0612	6.125	6-1/8	155.6	6.297	0.094	0.312	6.349	0.086	134.08	0.111	0.088	69,500	52,750				
RR-0625	6.250	6-1/4	158.9	6.422	0.094	0.312	6.474	0.086	136.99	0.111	0.088	70,920	53,825				
RR-0629	6.299		160.0	6.471	0.094	0.312	6.524	0.086	138.16	0.111	0.088	71,480	54,250				
RR-0637	6.375	6-3/8	162.2	6.547	0.094	0.312	6.601	0.086	139.96	0.111	0.088	72,340	54,905				
RR-0650	6.500	6-1/2	165.1	6.672	0.094	0.312	6.726	0.086	142.87	0.111	0.088	73,760	55,980				
RR-0662	6.625	6-5/8	168.3	6.807	0.094	0.312	6.863	0.086	146.07	0.108	0.087	75,180	60,375				
RR-0669	6.692		170.0	6.874	0.094	0.312	6.931	0.086	147.65	0.108	0.087	75,940	60,985				
RR-0675	6.750	6-3/4	171.4	6.932	0.094	0.312	6.987	0.086	148.96	0.108	0.087	76,590	61,515				
RR-0687	6.875	6-7/8	174.6	7.057	0.094	0.312	7.114	0.086	151.93	0.108	0.087	78,010	62,655				
RR-0700	7.000	7	177.8	7.182	0.094	0.312	7.239	0.086	154.84	0.106	0.085	79,430	63,790				
RR-0708	7.086		180.0	7.278	0.094	0.312	7.337	0.086	155.44	0.106	0.085	80,410	68,125				
RR-0712	7.125	7-1/8	181.0	7.317	0.094	0.312	7.376	0.086	156.35	0.106	0.085	80,850	68,500				
RR-0725	7.250	7-1/4	184.1	7.442	0.094	0.312	7.501	0.086	159.26	0.106	0.085	82,270	69,700				
RR-0737	7.375	7-3/8	187.3	7.567	0.094	0.312	7.628	0.086	162.22	0.106	0.085	83,690	70,900				
RR-0748	7.480		190.0	7.672	0.094	0.312	7.734	0.086	164.70	0.106	0.085	84,880	71,910				

* "F" ring thickness applies only to unplated rings. Add .001 To upper thickness tolerance for plated rings. Groove widths upper will accept plated rings without modification.

**See design information on page 5, ^see tolerance on page 6

The maximum groove bottom radius is .005" For rings 50 to 100 and .010" For rings 101 and larger.



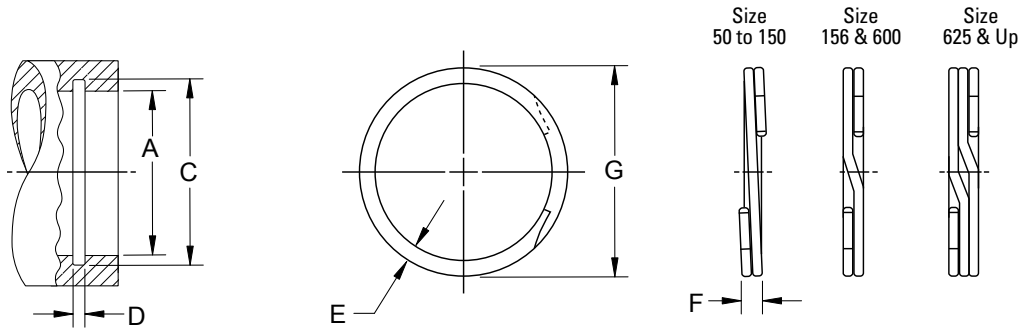
Sizes 281 & up may have optional slot. The Maximum Groove Bottom Radius is .005" for rings 50 to 100. .010 for rings 101 and larger

RING NO.	HOUSING DIAMETER			GROOVE SIZE				RING SIZE & WEIGHT						Maximum Corner		THRUST LOAD (PSI)	
	A DEC	A FRAC	A mm	DIAMETER		WIDTH		Radial Wall	FREE DIAMETER		THICKNESS*		Weight Per 1000 Pcs.	Radius	Chamfer	Based on Ring Shear	Based on Groove Yield
				C	Tol.	D	Tol.	E [^]	G	Tol.	F	Tol.		lbs.	X**	Ch**	SF - 3
RR-0750	7.500	7-1/2	190.5	7.692	±.008	0.094	+.006 -.000	0.312	7.754	+.065 -.000	0.086	±.004	165.17	0.106	0.085	85,110	72,105
RR-0762	7.625	7-5/8	193.7	7.827		0.094		0.312	7.890		0.086		168.31	0.103	0.082	86,520	77,125
RR-0775	7.750	7-3/4	196.8	7.952		0.094		0.312	8.014		0.086		171.23	0.103	0.082	87,940	78,390
RR-0787	7.875	7-7/8	200.0	8.077		0.094		0.312	8.131		0.086		173.96	0.103	0.082	89,360	79,655
RR-0800	8.000	8	203.3	8.202		0.094		0.312	8.266		0.086		177.12	0.103	0.082	90,780	80,920
RR-0825	8.250	8-1/4	209.5	8.462		0.094		0.375	8.528		0.086		218.45	0.132	0.106	93,620	87,575
RR-0826	8.267		210.0	8.479		0.094		0.375	8.546		0.086		218.97	0.132	0.106	93,810	87,755
RR-0846	8.464		215.0	8.676		0.094		0.375	8.744		0.086		224.51	0.132	0.106	96,040	89,850
RR-0850	8.500	8-1/2	216.0	8.712		0.094		0.375	8.780		0.086		225.52	0.132	0.106	96,450	90,230
RR-0875	8.750	8-3/4	222.2	8.972		0.094		0.375	9.041		0.086		232.84	0.130	0.104	99,290	97,265
RR-0885	8.858		225.0	9.080		0.094		0.375	9.151		0.086		233.30	0.130	0.104	100,520	98,465
RR-0900	9.000	9	228.8	9.222		0.094		0.375	9.293		0.086		237.28	0.130	0.104	102,130	100,045
RR-0905	9.055		230.0	9.287		0.094		0.375	9.359		0.086		239.15	0.127	0.102	102,750	105,190
RR-0925	9.250	9-1/4	235.0	9.482		0.094		0.375	9.555		0.086		244.64	0.127	0.102	104,960	107,455
RR-0944	9.448		240.0	9.680		0.094		0.375	9.755		0.086		250.25	0.127	0.102	107,210	109,755
RR-0950	9.500	9-1/2	241.3	9.732		0.094		0.375	9.806		0.086		251.68	0.127	0.102	107,800	110,360
RR-0975	9.750	9-3/4	247.8	9.992		0.094		0.375	10.068		0.086		259.02	0.125	0.100	110,640	118,145
RR-1000	10.000	10	254.0	10.242		0.094		0.375	10.320		0.086		266.09	0.125	0.100	113,470	121,175
RR-1025	10.250	10-1/4	260.8	10.502		0.094		0.375	10.582		0.086		273.44	0.122	0.098	116,310	129,340
RR-1050	10.500	10-1/2	265.0	10.752		0.094		0.375	10.834		0.086		280.50	0.122	0.098	119,150	132,490
RR-1075	10.750	10-3/4	273.0	11.012	0.094	0.375	11.095	0.086	287.82	0.120	0.096	121,980	141,030				
RR-1100	11.000	11	279.6	11.262	0.094	0.375	11.347	0.086	294.88	0.120	0.096	124,820	144,310				

* "F" ring thickness applies only to unplated rings. Add .001 To upper thickness tolerance for plated rings. Groove widths upper will accept plated rings without modification.

**See design information on page 5, ^see tolerance on page 6

The maximum groove bottom radius is .005" For rings 50 to 100 and .010" For rings 101 and larger.

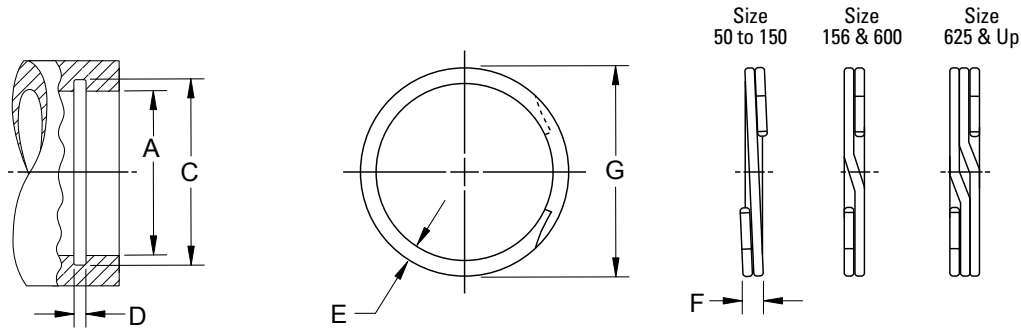


Sizes 281 & up may have optional slot. The Maximum Groove Bottom Radius is .005" for rings 50 to 100. .010" for rings 101 and larger

RING NO.	HOUSING DIAMETER			GROOVE SIZE				RING SIZE & WEIGHT					Maximum Corner		THRUST LOAD (PSI)		
	A DEC	A FRAC	A mm	DIAMETER		WIDTH		Radial Wall	FREE DIAMETER		THICKNESS*		Weight Per 1000 Pcs.	Radius	Chamfer	Based on Ring Shear	Based on Groove Yield
				C	Tol.	D	Tol.		E [^]	G	Tol.	F					
RRT-0050	0.500	1/2	12.7	0.524	±.002	0.039		0.045	0.529		0.035		0.57	0.016	0.013	2,530	230
RRT-0051	0.512		13.0	0.536	±.003	0.039	+0.003 -0.000	0.045	0.541	+0.013 -0.000	0.035	±.002	0.59	0.016	0.013	2,590	240
RRT-0056	0.562	9/16	14.3	0.592		0.039		0.045	0.597		0.035		0.67	0.015	0.012	2,840	360
RRT-0062	0.625	5/8	15.9	0.659		0.039		0.045	0.665		0.035		0.76	0.014	0.011	3,160	505
RRT-0068	0.688	11/16	17.5	0.724		0.039		0.055	0.730		0.035		1.01	0.019	0.015	3,480	650
RRT-0075	0.750	3/4	19.0	0.790		0.039		0.055	0.796		0.035		1.12	0.018	0.014	3,790	850
RRT-0077	0.777		19.7	0.819		0.046		0.065	0.825		0.042		1.61	0.017	0.014	4,720	820
RRT-0081	0.812	13/16	20.6	0.857		0.046		0.065	0.864		0.042		1.70	0.022	0.017	4,930	980
RRT-0086	0.866		22.0	0.912		0.046		0.065	0.919		0.042		1.83	0.021	0.017	5,260	1,110
RRT-0087	0.875	7/8	22.2	0.922		0.046		0.065	0.929		0.042		1.85	0.021	0.017	5,310	1,155
RRT-0090	0.901		22.9	0.950		0.046		0.065	0.957		0.042		1.91	0.016	0.012	5,470	1,275
RRT-0093	0.938	15/16	23.8	0.989		0.046		0.075	0.997		0.042		2.29	0.025	0.020	5,690	1,460
RRT-0100	1.000	1	25.4	1.055		0.046		0.075	1.063		0.042		2.47	0.024	0.019	6,070	1,775
RRT-0102	1.023		26.0	1.079		0.046		0.075	1.087		0.042		2.53	0.024	0.019	6,210	1,890
RRT-0106	1.062	1-1/16	27.0	1.120		0.056		0.078	1.129		0.050		3.26	0.025	0.020	7,010	1,615
RRT-0112	1.125	1-1/8	28.6	1.185		0.056		0.078	1.195		0.050		3.47	0.024	0.019	7,420	1,875
RRT-0118	1.188	1-3/16	30.2	1.250		0.056		0.088	1.260		0.050		3.91	0.026	0.021	7,840	2,150
RRT-0125	1.250	1-1/4	31.7	1.320	0.056	0.093	1.330	0.050	4.62	0.029	0.023	8,250	2,700				
RRT-0131	1.312	1-5/16	33.3	1.385	0.056	0.093	1.395	0.050	4.88	0.029	0.023	8,650	3,085				
RRT-0137	1.375	1-3/8	34.9	1.450	0.056	0.098	1.461	0.050	5.36	0.031	0.024	9,070	3,500				
RRT-0143	1.438	1-7/16	36.5	1.515	0.056	0.103	1.526	0.050	5.89	0.032	0.026	9,490	3,925				
RRT-0145	1.456		37.0	1.535	0.056	0.108	1.546	0.050	6.25	0.035	0.028	9,600	4,135				
RRT-0150	1.500	1-1/2	38.1	1.580	0.056	0.108	1.591	0.050	6.46	0.034	0.027	9,900	4,425				
RRT-0156	1.562	1-9/16	39.6	1.647	0.068	0.113	1.659	0.062	8.76	0.036	0.028	12,780	4,075				
RRT-0162	1.625	1-5/8	41.2	1.715	0.068	0.113	1.727	0.062	9.17	0.034	0.027	13,290	4,650				
RRT-0165	1.653		42.0	1.745	0.068	0.118	1.757	0.062	9.74	0.036	0.029	13,520	4,925				
RRT-0168	1.688	1-11/16	42.8	1.780	0.068	0.118	1.793	0.062	9.97	0.036	0.029	13,810	5,150				
RRT-0175	1.750	1-3/4	44.4	1.845	0.068	0.118	1.853	0.062	10.34	0.036	0.028	14,320	5,540				
RRT-0181	1.812	1-13/16	46.0	1.910	0.068	0.123	1.923	0.062	11.21	0.037	0.030	14,820	6,290				
RRT-0185	1.850		47.0	1.949	0.068	0.123	1.963	0.062	11.33	0.037	0.030	15,130	6,635				
RRT-0187	1.875	1-7/8	47.6	1.975	0.068	0.128	1.984	0.062	11.90	0.039	0.031	15,340	6,725				
RRT-0193	1.938	1-15/16	49.2	2.040	0.068	0.128	2.054	0.062	12.83	0.041	0.033	15,850	7,500				
RRT-0200	2.000	2	50.8	2.110	0.068	0.138	2.125	0.062	13.80	0.041	0.033	16,360	8,675				
RRT-0206	2.062	2-1/16	52.3	2.175	0.086	0.141	2.190	0.078	18.45	0.043	0.034	21,220	7,400				
RRT-0212	2.125	2-1/8	53.9	2.240	0.086	0.141	2.255	0.078	19.07	0.042	0.034	21,870	7,970				

* "F" ring thickness applies only to unplated rings. Add .001 To upper thickness tolerance for plated rings. Groove widths upper will accept plated rings without modification.

**See design information on page 5, ^see tolerance on page 6
The maximum groove bottom radius is .005" For rings 50 to 100 and .010" For rings 101 and larger.

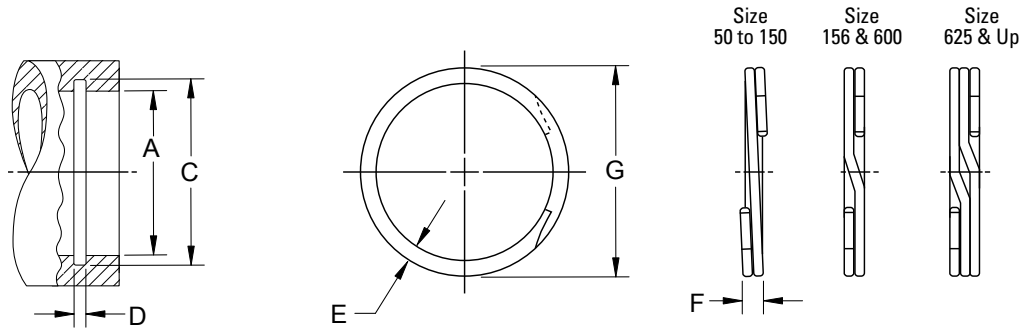


Sizes 281 & up may have optional slot. The Maximum Groove Bottom Radius is .005" for rings 50 to 100. .010" for rings 101 and larger

RING NO.	HOUSING DIAMETER			GROOVE SIZE				RING SIZE & WEIGHT					Maximum Corner		THRUST LOAD (PSI)		
	A DEC	A FRAC	A mm	DIAMETER		WIDTH		Radial Wall	FREE DIAMETER		THICKNESS*		Weight Per 1000 Pcs.	Radius	Chamfer	Based on Ring Shear	Based on Groove Yield
				C	Tol.	D	Tol.	E [^]	G	Tol.	F	Tol.					
RRT-0218	2.188	2-3/16	55.5	2.305		0.086		0.141	2.321		0.078		19.17	0.041	0.033	22,520	8,600
RRT-0225	2.250	2-1/4	57.1	2.370		0.086		0.141	2.386		0.078		20.33	0.041	0.032	23,160	9,300
RRT-0231	2.312	2-5/16	58.7	2.440		0.086		0.188	2.457		0.078		27.41	0.063	0.050	23,790	10,740
RRT-0237	2.375	2-3/8	60.3	2.505		0.086		0.188	2.522		0.078		28.23	0.062	0.049	24,440	11,465
RRT-0244	2.440		61.9	2.570		0.086		0.188	2.588		0.078		29.07	0.061	0.049	25,110	12,110
RRT-0250	2.500	2-1/2	63.5	2.635		0.086		0.188	2.653		0.078		29.50	0.061	0.048	25,730	13,160
RRT-0253	2.531		64.2	2.668		0.086		0.188	2.687		0.078		29.93	0.060	0.048	26,050	13,735
RRT-0256	2.562	2-9/16	65.0	2.700		0.103		0.188	2.720	+0.025 -0.000	0.093		35.94	0.060	0.048	29,940	11,415
RRT-0262	2.625	2-5/8	66.6	2.765		0.103		0.188	2.785		0.093		36.93	0.059	0.047	30,680	12,105
RRT-0268	2.688	2-11/16	68.2	2.834		0.103		0.188	2.855		0.093		37.98	0.058	0.046	31,410	13,200
RRT-0275	2.750	2-3/4	69.8	2.900		0.103		0.188	2.921		0.093		38.98	0.057	0.045	32,140	14,210
RRT-0281	2.813	2-13/16	71.4	2.965		0.103		0.188	2.987		0.093		39.97	0.056	0.045	32,870	15,070
RRT-0283	2.834		71.9	2.987		0.103		0.188	3.009		0.093		40.30	0.056	0.045	33,120	15,385
RRT-0287	2.875	2-7/8	73.0	3.030		0.103		0.188	3.053		0.093		40.96	0.056	0.044	33,600	16,070
RRT-0300	3.000	3	76.1	3.165		0.103		0.188	3.188		0.093		43.00	0.053	0.042	35,060	18,550
RRT-0306	3.062	3-1/16	77.7	3.230		0.120		0.250	3.257		0.111		68.03	0.084	0.067	42,710	16,900
RRT-0312	3.125	3-1/8	79.3	3.295		0.120	+0.005 -0.000	0.250	3.318		0.111		69.50	0.083	0.066	43,590	17,500
RRT-0315	3.156		80.1	3.328	±0.006	0.120		0.250	3.354		0.111	±0.003	70.37	0.082	0.066	44,020	18,215
RRT-0325	3.250	3-1/4	82.5	3.426		0.120		0.250	3.450		0.111		72.68	0.081	0.065	45,330	19,540
RRT-0334	3.346		85.0	3.525		0.120		0.250	3.550		0.111		75.08	0.080	0.064	46,670	21,055
RRT-0347	3.469		88.0	3.657		0.120		0.250	3.683		0.111		78.28	0.078	0.062	48,390	23,725
RRT-0350	3.500	3-1/2	88.8	3.690		0.120		0.250	3.716	+0.030 -0.000	0.111		79.07	0.078	0.062	48,820	24,385
RRT-0354	3.543		89.9	3.735		0.120		0.250	3.761		0.111		80.16	0.077	0.062	49,420	25,230
RRT-0356	3.562	3-9/16	90.4	3.756		0.120		0.250	3.783		0.111		80.68	0.077	0.061	49,680	25,825
RRT-0362	3.625	3-5/8	92.0	3.822		0.120		0.250	3.849		0.111		82.27	0.076	0.061	50,560	27,100
RRT-0375	3.750	3-3/4	95.2	3.955		0.120		0.250	3.982		0.111		84.46	0.074	0.059	52,310	30,085
RRT-0387	3.875	3-7/8	98.3	4.087		0.120		0.250	4.115		0.111		87.66	0.072	0.058	54,050	33,215
RRT-0393	3.938	3-15/16	99.9	4.150		0.120		0.250	4.178		0.111		89.17	0.072	0.058	54,930	34,190
RRT-0400	4.000	4	101.5	4.220		0.120		0.250	4.248		0.111		90.86	0.070	0.056	55,790	36,590
RRT-0412	4.125	4-1/8	104.7	4.339		0.120		0.312	4.368		0.111		115.14	0.101	0.081	57,540	39,442
RRT-0425	4.250	4-1/4	107.9	4.470		0.120		0.312	4.500		0.111		119.10	0.101	0.081	59,280	41,860
RRT-0433	4.330		109.9	4.556		0.120		0.312	4.586	+0.035 -0.000	0.111		121.67	0.100	0.080	60,400	44,575
RRT-0450	4.500	4-1/2	114.2	4.735		0.120		0.312	4.768		0.111		127.14	0.098	0.078	62,770	50,240
RRT-0462	4.625	4-5/8	117.4	4.865		0.120		0.312	4.897		0.111		131.01	0.096	0.077	64,510	53,935
RRT-0475	4.750	4-3/4	120.6	4.995		0.120		0.312	5.028		0.111		134.94	0.095	0.076	66,260	58,040

* "F" ring thickness applies only to unplated rings. Add .001 To upper thickness tolerance for plated rings. Groove widths upper will accept plated rings without modification.

**See design information on page 5, ^see tolerance on page 6
The maximum groove bottom radius is .005" For rings 50 to 100 and .010" For rings 101 and larger.

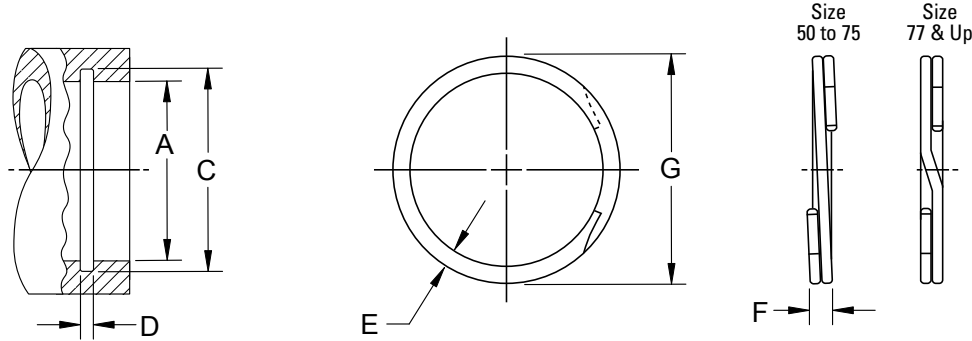


Sizes 281 & up may have optional slot. The Maximum Groove Bottom Radius is .005" for rings 50 to 100. .010" for rings 101 and larger

RING NO.	HOUSING DIAMETER			GROOVE SIZE				RING SIZE & WEIGHT					Maximum Corner		THRUST LOAD (PSI)		
	A DEC	A FRAC	A mm	DIAMETER		WIDTH		Radial Wall	FREE DIAMETER		THICKNESS*		Weight Per 1000 Pcs.	Radius	Chamfer	Based on Ring Shear	Based on Groove Yield
				C	Tol.	D	Tol.		E [^]	G	Tol.	F					
RRT-0500	5.000	5	126.9	5.260	±.006	0.120		0.312	5.295		0.111	±.003	143.56	0.091	0.073	69,740	65,095
RRT-0525	5.250	5-1/4	133.2	5.520	±.007	0.139	+.006 -.000	0.375	5.559	+.045 -.000	0.127	±.004	206.43	0.120	0.096	83,790	68,665
RRT-0537	5.375	5-3/8	136.4	5.650		0.139		0.375	5.689		0.127		211.81	0.120	0.096	85,780	72,453
RRT-0550	5.500	5-1/2	139.6	5.770		0.139		0.375	5.810		0.127		216.81	0.120	0.096	87,780	74,453
RRT-0575	5.750	5-3/4	145.9	6.020		0.139		0.375	6.062		0.127		227.24	0.120	0.096	91,770	77,735
RRT-0600	6.000	6	152.3	6.270		0.139		0.375	6.314		0.127		237.66	0.120	0.096	95,760	81,120
ALL RINGS LISTED BELOW ARE THREE TURN CRIMPED CONSTRUCTION																	
RRT-0625	6.250	6-1/4	158.6	6.530	±.008	0.174	+.008 -.000	0.312	6.576	+.055 -.000	0.165	±.005	266.56	0.086	0.069	129,590	74,455
RRT-0650	6.500	6-1/2	165.0	6.790		0.174		0.312	6.837		0.165		278.34	0.084	0.067	134,770	83,300
RRT-0662	6.625	6-5/8	168.1	6.925		0.174		0.312	6.973		0.165		284.48	0.081	0.065	137,370	89,565
RRT-0675	6.750	6-3/4	171.3	7.055		0.174		0.312	7.104	0.165	290.39	0.080	0.064	139,960	94,580		
RRT-0700	7.000	7	177.7	7.315		0.174		0.312	7.366	0.165	302.21	0.078	0.062	145,140	105,080		
RRT-0725	7.250	7-1/4	184.0	7.575		0.209		0.375	7.628	0.189	429.42	0.107	0.085	172,190	101,500		
RRT-0750	7.500	7-1/2	190.5	7.840		0.209		0.375	7.895	0.189	446.02	0.103	0.082	178,130	113,675		
RRT-0775	7.750	7-3/4	197.0	8.100		0.209		0.375	8.156	0.189	462.25	0.100	0.080	184,075	124,880		
RRT-0800	8.000	8	203.3	8.360		0.209		0.375	8.418	0.189	484.75	0.098	0.078	190,000	136,825		
RRT-0825	8.250	8-1/4	209.8	8.620		0.209		0.375	8.680	0.189	494.81	0.095	0.076	195,940	149,675		
RRT-0850	8.500	8-1/2	216.0	8.880		0.209		0.375	8.942	0.189	511.09	0.093	0.074	201,880	161,735		
RRT-0875	8.750	8-3/4	222.2	9.145		0.209		0.375	9.209	0.189	527.68	0.089	0.071	207,820	173,065		
RRT-0900	9.000	9	228.8	9.405		0.209		0.375	9.471	0.189	543.95	0.087	0.069	213,750	182,515		
RRT-0925	9.250	9-1/4	235.0	9.669		0.209		0.375	9.736	0.189	560.41	0.087	0.069	219,690	194,070		
RRT-0950	9.500	9-1/2	241.5	9.930		0.209		0.375	9.999	0.189	576.73	0.080	0.064	225,630	204,550		
RRT-0975	9.750	9-3/4	248.0	10.189		0.209		0.375	10.260	0.189	592.93	0.080	0.064	231,570	214,325		
RRT-1000	10.000	10	254.0	10.450		0.209		0.375	10.552	0.189	611.05	0.075	0.060	237,500	225,330		
RRT-1050	10.500	10-1/2	266.7	10.970	0.209	0.375	11.036	0.189	641.09	0.070	0.056	249,380	247,110				

* "F" ring thickness applies only to unplated rings. Add .001 To upper thickness tolerance for plated rings. Groove widths upper will accept plated rings without modification.

**See design information on page 5, ^see tolerance on page 6
The maximum groove bottom radius is .005" For rings 50 to 100 and .010" For rings 101 and larger.

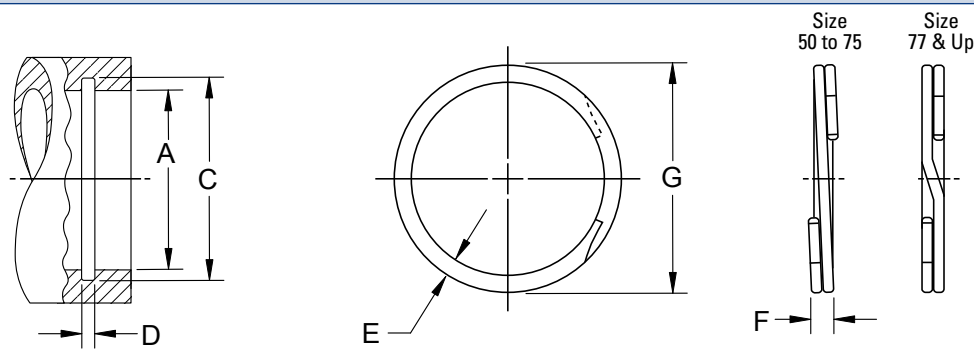


Sizes 281 & up may have optional slot. The Maximum Groove Bottom Radius is .005" for rings 50 to 100.
.010 for rings 101 and larger

RING NO.	HOUSING DIAMETER			GROOVE SIZE				RING SIZE & WEIGHT					Maximum Corner		THRUST LOAD (PSI)		
	A DEC	A FRAC	A mm	DIAMETER		WIDTH		Radial Wall	FREE DIAMETER		THICKNESS*		Weight Per 1000 Pcs.	Radius	Chamfer	Based on Ring Shear	Based on Groove Yield
				C	Tol.	D	Tol.		E^A	G	Tol.	F					
RRN-0050	0.500	1/2	12.7	0.530	±.002	0.039		0.045	0.538		0.035		0.57	0.015	0.011	2,530	310
RRN-0051	0.512		13.0	0.542		0.039		0.045	0.550		0.035		0.59	0.016	0.012	2,590	325
RRN-0056	0.562	9/16	14.3	0.596		0.039		0.055	0.605		0.035		0.80	0.019	0.014	2,840	455
RRN-0062	0.625	5/8	15.9	0.665		0.039		0.055	0.675		0.035		0.92	0.018	0.013	3,160	655
RRN-0068	0.688	11/16	17.5	0.732		0.039		0.065	0.743		0.035		1.19	0.021	0.016	3,480	965
RRN-0075	0.750	3/4	19.0	0.796	±.003	0.039	+.003 -.000	0.065	0.807		0.035		1.32	0.021	0.016	3,790	1,065
RRN-0077	0.777		19.7	0.825		0.046		0.075	0.836		0.042		1.84	0.025	0.018	4,720	1,026
RRN-0081	0.812	13/16	20.6	0.862		0.046		0.075	0.873		0.042		1.94	0.025	0.018	4,930	1,150
RRN-0086	0.866		22.0	0.920		0.046		0.075	0.931		0.042		2.10	0.024	0.018	5,260	1,395
RRN-0087	0.875	7/8	22.2	0.931		0.046		0.085	0.943		0.042		2.39	0.028	0.021	5,310	1,520
RRN-0090	0.901		22.9	0.959	±.004	0.046	+.004 -.000	0.085	0.972		0.042		2.47	0.028	0.021	5,470	1,675
RRN-0093	0.938	15/16	23.8	1.000		0.046		0.085	1.013		0.042		2.60	0.027	0.020	5,690	1,925
RRN-0100	1.000	1	25.4	1.066		0.046		0.085	1.080		0.042		2.79	0.026	0.019	6,070	2,310
RRN-0102	1.023		26.0	1.091		0.046		0.085	1.105		0.042		2.86	0.025	0.018	6,210	2,480
RRN-0106	1.062	1-1/16	27.0	1.130		0.056		0.103	1.138		0.050		4.23	0.034	0.025	7,010	1,940
RRN-0112	1.125	1-1/8	28.6	1.197	±.005	0.056	+.013 -.000	0.103	1.205		0.050		4.52	0.033	0.024	7,420	2,280
RRN-0118	1.188	1-3/16	30.2	1.262		0.056		0.103	1.271		0.050		4.82	0.033	0.024	7,840	2,615
RRN-0125	1.250	1-1/4	31.7	1.330		0.056		0.103	1.339		0.050		5.11	0.031	0.023	8,250	3,110
RRN-0131	1.312	1-5/16	33.3	1.396		0.056		0.118	1.406		0.050		6.12	0.038	0.028	8,650	3,650
RRN-0137	1.375	1-3/8	34.9	1.461		0.056		0.118	1.471		0.050		6.45	0.037	0.027	9,070	4,075
RRN-0143	1.439	1-7/16	36.5	1.528	±.006	0.056	+.020 -.000	0.118	1.539		0.050		6.74	0.036	0.027	9,490	4,670
RRN-0145	1.456		37.0	1.548		0.056		0.118	1.559		0.050		6.84	0.036	0.027	9,600	4,890
RRN-0150	1.500	1-1/2	38.1	1.594		0.056		0.118	1.605		0.050		7.07	0.035	0.026	9,900	5,275
RRN-0156	1.562	1-9/16	39.6	1.658		0.068		0.128	1.675		0.062		9.86	0.040	0.030	12,780	4,840
RRN-0162	1.625	1-5/8	41.2	1.725		0.068		0.128	1.742		0.062		10.32	0.039	0.029	13,290	5,415
RRN-0165	1.653		42.0	1.755	±.005	0.068	+.005 -.000	0.128	1.772		0.062		10.52	0.038	0.028	13,520	5,695
RRN-0168	1.688	1-11/16	42.8	1.792		0.068		0.128	1.810		0.062		10.79	0.038	0.028	13,810	6,070
RRN-0175	1.750	1-3/4	44.4	1.858		0.068		0.128	1.876		0.062		11.24	0.037	0.027	14,320	6,735
RRN-0181	1.812	1-13/16	46.0	1.922		0.068		0.128	1.940		0.062		11.67	0.036	0.027	14,820	7,305
RRN-0185	1.850		47.0	1.962		0.068		0.158	1.981		0.062		14.50	0.051	0.038	15,130	7,960
RRN-0187	1.875	1-7/8	47.6	1.989	±.006	0.068	+.025 -.000	0.158	2.008		0.062		14.73	0.050	0.037	15,340	8,305
RRN-0193	1.938	1-15/16	49.2	2.056		0.068		0.158	2.075		0.062		15.30	0.049	0.036	15,850	9,125
RRN-0200	2.000	2	50.8	2.122		0.068		0.158	2.142		0.062		15.78	0.048	0.036	16,360	10,040
RRN-0206	2.062	2-1/16	52.3	2.186		0.086		0.168	2.201		0.078		21.81	0.053	0.039	21,220	8,280
RRN-0212	2.125	2-1/8	53.9	2.251		0.086		0.168	2.267		0.078		22.56	0.052	0.039	21,870	8,935

* "F" ring thickness applies only to unplated rings. Add .001 To upper thickness tolerance for plated rings. Groove widths upper will accept plated rings without modification.

**See design information on page 5, ^see tolerance on page 6
The maximum groove bottom radius is .005" For rings 50 to 100 and .010" For rings 101 and larger.

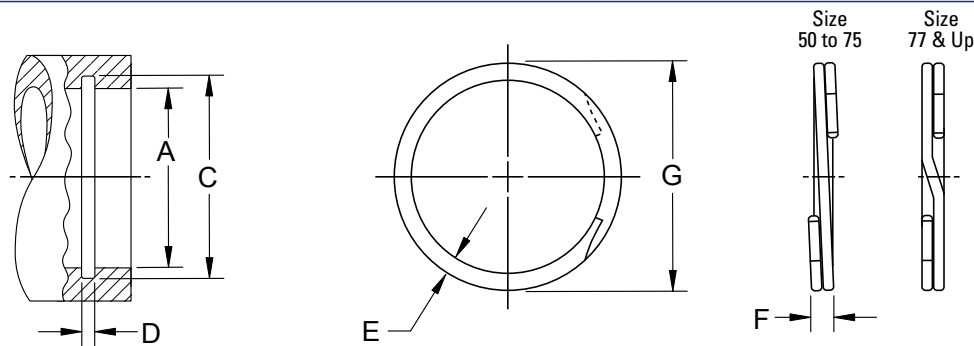


Sizes 281 & up may have optional slot. The Maximum Groove Bottom Radius is .005" for rings 50 to 100.
.010 for rings 101 and larger

RING NO.	HOUSING DIAMETER			GROOVE SIZE				RING SIZE & WEIGHT					Maximum Corner		THRUST LOAD (PSI)		
	A DEC	A FRAC	A mm	DIAMETER		WIDTH		Radial Wall	FREE DIAMETER		THICKNESS*		Weight Per 1000 Pcs.	Radius	Chamfer	Based on Ring Shear SF - 3	Based on Groove Yield SF - 2
				C	Tol.	D	Tol.		E^	G	Tol.	F					
RRN-0218	2.188	2-3/16	55.5	2.318		0.086		0.168	2.334		0.078		23.32	0.051	0.038	22,520	9,745
RRN-0225	2.250	2-1/4	57.1	2.382		0.086		0.168	2.399		0.078		24.06	0.015	0.038	23,160	10,455
RRN-0231	2.312	2-5/16	58.7	2.450		0.086		0.200	2.467		0.078		29.13	0.065	0.048	23,790	11,700
RRN-0237	2.375	2-3/8	60.3	2.517		0.086		0.200	2.535		0.078		30.05	0.064	0.048	24,440	12,715
RRN-0244	2.440		61.9	2.584		0.086		0.200	2.602		0.078		30.96	0.064	0.048	25,110	13,550
RRN-0250	2.500	2-1/2	63.5	2.648		0.086		0.200	2.667		0.078		31.41	0.063	0.047	25,730	14,640
RRN-0253	2.531		64.2	2.681		0.086		0.200	2.700		0.078		31.86	0.062	0.046	26,050	15,185
RRN-0256	2.562	2-9/16	65.0	2.714		0.103		0.225	2.733		0.093		42.59	0.074	0.055	29,940	12,775
RRN-0262	2.625	2-5/8	66.6	2.781		0.103		0.225	2.801		0.093		43.81	0.073	0.054	30,680	13,780
RRN-0268	2.688	2-11/16	68.2	2.848		0.103		0.225	2.868		0.093		45.02	0.072	0.054	31,410	14,775
RRN-0275	2.750	2-3/4	69.8	2.914		0.103		0.225	2.934		0.093		46.21	0.071	0.053	32,140	15,790
RRN-0281	2.813	2-13/16	71.4	2.980		0.103		0.225	3.001		0.093		47.43	0.070	0.052	32,870	16,845
RRN-0283	2.834		71.9	3.006		0.103		0.225	3.027		0.093		47.89	0.070	0.052	33,120	17,595
RRN-0287	2.875	2-7/8	73.0	3.051		0.103		0.225	3.072		0.093		48.70	0.068	0.051	33,600	18,505
RRN-0300	3.000	3	76.1	3.182		0.103		0.225	3.204		0.093		51.08	0.067	0.050	35,060	20,795
RRN-0306	3.062	3-1/16	77.7	3.248		0.120		0.281	3.271		0.111		76.01	0.099	0.070	42,710	18,735
RRN-0312	3.125	3-1/8	79.3	3.315		0.120		0.281	3.338		0.111		77.82	0.093	0.069	43,590	19,865
RRN-0315	3.157		80.1	3.348	±.006	0.120	+0.005	0.281	3.371		0.111	±.003	78.71	0.092	0.069	44,020	20,345
RRN-0325	3.250	3-1/4	82.5	3.446		0.120	-0.000	0.281	3.470		0.111		81.39	0.091	0.068	45,330	22,120
RRN-0334	3.346		85.0	3.546		0.120		0.281	3.571		0.111		84.12	0.090	0.067	46,670	23,905
RRN-0347	3.469		88.0	3.675		0.120		0.281	3.701		0.111		87.64	0.089	0.066	48,390	26,405
RRN-0350	3.500	3-1/2	88.8	3.710		0.120		0.281	3.736		0.111		88.58	0.088	0.066	48,820	27,370
RRN-0354	3.543		89.9	3.755		0.120		0.281	3.781		0.111		89.80	0.087	0.065	49,420	28,250
RRN-0356	3.562	3-9/16	90.4	3.776		0.120		0.281	3.802		0.111		90.37	0.087	0.065	49,680	28,815
RRN-0362	3.625	3-5/8	92.4	3.841		0.120		0.281	3.868		0.111		92.15	0.086	0.064	50,560	30,160
RRN-0375	3.750	3-3/4	95.2	3.974		0.120		0.312	4.002	+0.035	0.111	-0.000	104.14	0.100	0.075	52,310	33,720
RRN-0387	3.875	3-5/8	98.3	4.107		0.120		0.312	4.136		0.111		108.17	0.098	0.073	54,050	37,250
RRN-0393	3.938	3-15/16	99.9	4.174		0.120		0.312	4.203		0.111		110.18	0.097	0.072	54,930	39,045
RRN-0400	4.000	4	101.5	4.240		0.120		0.312	4.270		0.111		112.19	0.096	0.072	55,790	41,025
RRN-0412	4.125	4-1/8	104.7	4.339		0.120		0.312	4.369		0.111		115.16	0.102	0.076	57,540	38,495
RRN-0425	4.250	4-1/4	107.9	4.470		0.120		0.312	4.501		0.111		119.13	0.101	0.075	59,280	41,955
RRN-0433	4.330		109.9	4.556		0.120		0.312	4.588		0.111		121.74	0.100	0.075	60,400	44,815
RRN-0450	4.500	4-1/2	114.2	4.735		0.120		0.312	4.768		0.111		127.14	0.097	0.072	62,770	50,290
RRN-0462	4.625	4-5/8	117.4	4.865		0.120		0.312	4.899		0.111		131.07	0.096	0.072	64,510	54,155
RRN-0475	4.750	4-3/4	120.6	4.995		0.120		0.312	5.030		0.111		135.00	0.095	0.071	66,260	58,270

* "F" ring thickness applies only to unplated rings. Add .001 To upper thickness tolerance for plated rings. Groove widths upper will accept plated rings without modification.

**See design information on page 5, ^see tolerance on page 6
The maximum groove bottom radius is .005" For rings 50 to 100 and .010" For rings 101 and larger.

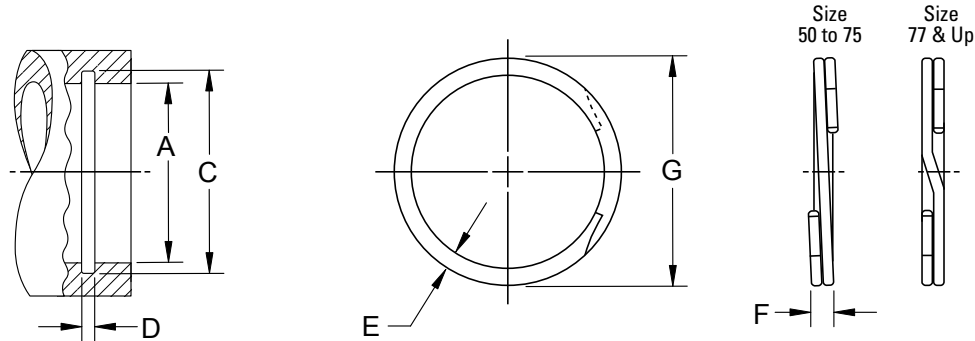


Sizes 281 & up may have optional slot. The Maximum Groove Bottom Radius is .005" for rings 50 to 100.
.010 for rings 101 and larger

RING NO.	HOUSING DIAMETER			GROOVE SIZE				RING SIZE & WEIGHT					Maximum Corner		THRUST LOAD (PSI)		
	A DEC	A FRAC	A mm	DIAMETER		WIDTH		Radial Wall	FREE DIAMETER		THICKNESS*		Weight Per 1000 Pcs.	Radius	Chamfer	Based on Ring Shear	Based on Groove Yield
				C	Tol.	D	Tol.		E [^]	G	Tol.	F					
RRN-0500	5.000	5	126.9	5.260		0.120		0.312	5.297		0.111		140.49	0.091	0.068	69,740	65,095
RRN-0525	5.250	5-1/4	133.2	5.520	±.007	0.139	+.006 -.000	0.350	5.559	+.050 -.000	0.127	±.004	189.63	0.107	0.080	83,790	68,315
RRN-0537	5.375	5-3/8	136.4	5.650		0.139		0.350	5.690		0.127		194.69	0.107	0.080	85,780	72,840
RRN-0550	5.500	5-1/2	139.6	5.770		0.139		0.350	5.810		0.127		199.33	0.107	0.080	87,780	74,355
RRN-0575	5.750	5-3/4	145.9	6.020		0.139		0.350	6.062		0.127		209.07	0.107	0.080	91,770	77,735
RRN-0600	6.000	6	152.3	6.270		0.139		0.350	6.314		0.127		218.82	0.107	0.080	95,760	81,120
RRN-0625	6.250	6-1/4	158.6	6.530	±.008	0.174	+.008 -.000	0.380	6.576	+.055 -.000	0.156	±.005	303.15	0.139	0.104	122,520	80,655
RRN-0650	6.500	6-1/2	165.0	6.790		0.174		0.380	6.838		0.156		316.62	0.136	0.102	127,420	90,295
RRN-0662	6.625	6-5/8	168.1	6.925		0.174		0.380	6.974		0.156		323.61	0.134	0.100	129,870	92,060
RRN-0675	6.750	6-3/4	171.3	7.055		0.174		0.380	7.105		0.156		330.34	0.133	0.099	132,320	102,475
RRN-0700	7.000	7	177.7	7.315		0.174		0.380	7.366		0.156		337.85	0.130	0.097	137,220	110,410
RRN-0725	7.250	7-1/4	184.0	7.575		0.209		0.418	7.628		0.187		465.24	0.137	0.102	170,370	103,440
RRN-0750	7.500	7-1/2	190.5	7.840		0.209		0.418	7.895		0.187		483.53	0.133	0.099	176,240	115,780
RRN-0775	7.750	7-3/4	197.0	8.100		0.209		0.418	8.157		0.187		501.48	0.131	0.098	182,120	127,270
RRN-0800	8.000	8	203.3	8.360		0.209		0.418	8.419		0.187		519.44	0.160	0.120	187,990	139,370
RRN-0825	8.250	8-1/4	209.8	8.620		0.209		0.437	8.680		0.187		560.38	0.157	0.117	193,870	152,695
RRN-0850	8.500	8-1/2	216.0	8.880	0.209	0.437	8.942	0.187	579.12	0.155	0.116	199,740	161,735				
RRN-0875	8.750	8-3/4	222.2	9.145	0.209	0.437	9.209	0.187	598.26	0.151	0.113	205,620	173,065				
RRN-0900	9.000	9	228.8	9.405	0.209	0.437	9.471	0.187	617.00	0.149	0.111	211,490	182,515				
RRN-0925	9.250	9-1/4	235.0	9.669	0.209	0.437	9.737	0.187	636.03	0.149	0.111	217,370	194,070				
RRN-0950	9.500	9-1/2	241.5	9.930	0.209	0.500	10.000	0.187	737.33	0.142	0.106	223,240	204,550				
RRN-0975	9.750	9-3/4	248.0	10.189	0.209	0.500	10.260	0.187	758.62	0.142	0.106	229,120	214,325				
RRN-1000	10.000	10	254.0	10.450	0.209	0.500	10.523	0.187	780.16	0.137	0.102	234,990	225,330				
RRN-1025	10.250	10-1/4	260.8	10.711	0.209	0.500	10.786	0.187	801.72	0.135	0.101	240,870	236,605				
RRN-1050	10.500	10-1/2	266.7	10.970	0.209	0.500	11.047	0.187	823.06	0.132	0.099	246,740	247,110				
RRN-1075	10.750	10-3/4	273.1	11.234	0.209	0.500	11.313	0.187	844.89	0.129	0.097	252,620	260,530				
RRN-1100	11.000	11	279.4	11.495	0.209	0.500	11.575	0.187	866.32	0.126	0.095	258,490	272,645				
RRN-1125	11.250	11-1/4	285.8	11.756	0.209	0.500	11.838	0.187	887.84	0.123	0.093	264,360	285,040				
RRN-1150	11.500	11-1/2	292.1	12.018	0.209	0.562	12.102	0.187	1007.02	0.151	0.114	270,240	298,285				
RRN-1175	11.750	11-3/4	298.6	12.279	0.209	0.562	12.365	0.187	1031.22	0.149	0.112	276,120	311,240				
RRN-1200	12.000	12	304.8	12.540	0.209	0.562	12.628	0.187	1055.43	0.146	0.110	281,990	324,475				
RRN-1225	12.250	12-1/4	311.2	12.801	0.209	0.562	12.891	0.187	1079.65	0.143	0.108	287,860	337,980				
RRN-1250	12.500	12-1/2	317.5	13.063	0.209	0.562	13.154	0.187	1103.85	0.140	0.105	293,740	352,390				

* "F" ring thickness applies only to unplated rings. Add .001 To upper thickness tolerance for plated rings. Groove widths upper will accept plated rings without modification.

**See design information on page 5, ^see tolerance on page 6
The maximum groove bottom radius is .005" For rings 50 to 100 and .010" For rings 101 and larger.



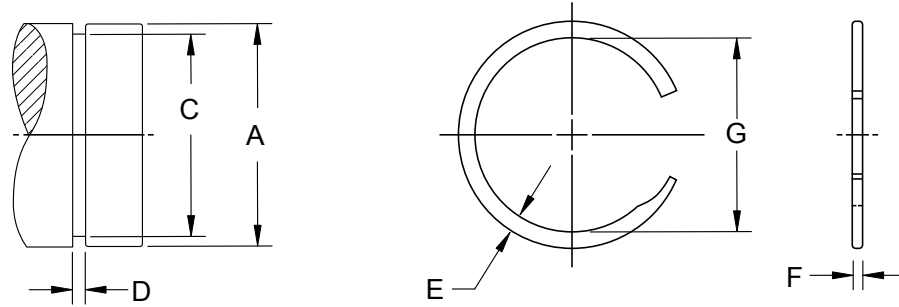
Sizes 281 & up may have optional slot. The Maximum Groove Bottom Radius is .005" for rings 50 to 100. .010 for rings 101 and larger

RING NO.	HOUSING DIAMETER			GROOVE SIZE				RING SIZE & WEIGHT					Maximum Corner		THRUST LOAD (PSI)		
	A DEC	A FRAC	A mm	DIAMETER		WIDTH		Radial Wall	FREE DIAMETER		THICKNESS*		Weight Per 1000 Pcs.	Radius	Chamfer	Based on Ring Shear	Based on Groove Yield
				C	Tol.	D	Tol.		E [^]	G	Tol.	F					
RRN-1275	12.750	12-3/4	323.9	13.324	±.012	0.209	+.008 -.000	0.562	13.417	+.140 -.000	0.187	±.005	1128.06	0.137	0.103	299,610	366,460
RRN-1300	13.000	13	330.2	13.585		0.209		0.662	13.680		0.187		1346.48	0.185	0.139	305,490	380,805
RRN-1325	13.250	13-1/4	336.6	13.846		0.209		0.662	13.943		0.187		1375.01	0.182	0.137	311,360	395,430
RRN-1350	13.500	13-1/2	342.9	14.108		0.209		0.662	14.207		0.187		1403.64	0.179	0.134	317,240	411,000
RRN-1375	13.750	13-3/4	349.3	14.369		0.209		0.662	14.470		0.187		1432.14	0.176	0.132	323,110	426,185
RRN-1400	14.000	14	355.6	14.630		0.209		0.662	14.732		0.187		1449.29	0.173	0.130	328,990	441,645
RRN-1425	14.250	14-1/4	362.0	14.891		0.209		0.662	14.995		0.187		1477.82	0.171	0.128	334,860	457,380
RRN-1450	14.500	14-1/2	368.3	15.153		0.209		0.750	15.259		0.187		1695.90	0.212	0.159	340,740	474,120
RRN-1475	14.750	14-3/4	374.7	15.414		0.209		0.750	15.522		0.187		1728.24	0.209	0.157	346,610	490,415
RRN-1500	15.000	15	381.0	15.675		0.209		0.750	15.785		0.187		1760.55	0.206	0.155	352,490	506,990

* "F" ring thickness applies only to unplated rings. Add .001 To upper thickness tolerance for plated rings. Groove widths upper will accept plated rings without modification.

**See design information on page 5, [^]see tolerance on page 6
The maximum groove bottom radius is .005" For rings 50 to 100 and .010" For rings 101 and larger.

RINGS ARE AXIALLY ASSEMBLED.



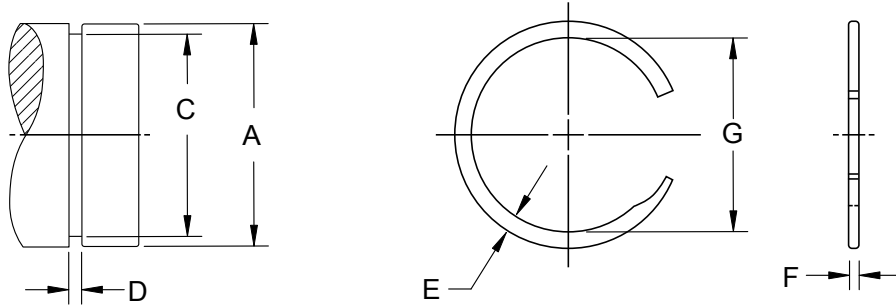
Sizes 281 & up may have optional slot. The Maximum Groove Bottom Radius is .005" for rings 50 to 100. .010 for rings 101 and larger

RING NO.	SHAFT DIAMETER			GROOVE SIZE				RING SIZE & WEIGHT					Maximum Corner		THRUST LOAD (PSI)		
	A DEC	A FRAC	A mm	DIAMETER		WIDTH		Radial Wall	FREE DIAMETER		THICKNESS*		Weight Per 1000 Pcs.	Radius	Chamfer	Based on Ring Shear	Based on Groove Yield
				C	Tol.	D	Tol.		E [^]	G	Tol.	F					
US-0050	0.500	1/2	12.7	0.472	±.002	0.022	+0.002 -.000	0.045	0.467	+0.000 -.013	0.018	±.0015	0.32	0.007	0.005	1,300	380
US-0056	0.562	9/16	14.3	0.534		0.022		0.045	0.529		0.018		0.36	0.007	0.005	1,460	500
US-0062	0.625	5/8	15.9	0.597		0.022		0.045	0.591		0.018		0.40	0.007	0.005	1,630	630
US-0068	0.687	11/16	17.5	0.659		0.022		0.045	0.652		0.018		0.44	0.007	0.005	1,790	770
US-0075	0.750	3/4	19.0	0.722	±.003	0.022	+0.002 -.000	0.045	0.715	+0.000 -.013	0.018	±.0015	0.48	0.007	0.005	1,950	940
US-0081	0.812	13/16	20.6	0.770		0.026		0.065	0.762		0.021		0.90	0.011	0.008	2,460	1,330
US-0087	0.875	7/8	22.2	0.833		0.026		0.065	0.825		0.021		0.98	0.011	0.008	2,660	1,590
US-0093	0.937	15/16	23.8	0.895		0.026		0.065	0.886		0.021		1.05	0.011	0.008	2,840	1,840
US-0100	1.000	1	25.4	0.958	±.004	0.026	+0.002 -.000	0.065	0.949	+0.000 -.015	0.021	±.0015	1.12	0.011	0.008	3,030	2,100
US-0106	1.062	1-1/16	27.0	1.018		0.031		0.088	1.008		0.025		1.94	0.016	0.012	3,500	1,820
US-0112	1.125	1-1/8	29.0	1.081		0.031		0.088	1.071		0.025		2.06	0.016	0.012	3,710	2,090
US-0118	1.187	1-3/16	30.2	1.143		0.031		0.088	1.132		0.025		2.17	0.016	0.012	3,910	2,340
US-0125	1.250	1-1/4	31.7	1.206	±.005	0.031	+0.002 -.000	0.088	1.194	+0.000 -.015	0.025	±.0015	2.29	0.016	0.012	4,120	2,612
US-0131	1.312	1-5/16	33.3	1.268		0.031		0.088	1.255		0.025		2.41	0.016	0.012	4,330	2,890
US-0137	1.375	1-3/8	34.9	1.331		0.031		0.088	1.318		0.025		2.52	0.016	0.012	4,530	3,030
US-0143	1.437	1-7/16	36.5	1.393		0.031		0.088	1.379		0.025		2.64	0.016	0.012	4,740	3,170
US-0150	1.500	1-1/2	38.1	1.456	±.006	0.031	+0.003 -.000	0.088	1.442	+0.000 -.025	0.025	±.002	2.76	0.016	0.012	4,950	3,300
US-0156	1.562	1-9/16	39.6	1.505		0.039		0.118	1.488		0.031		4.86	0.022	0.016	6,390	4,110
US-0162	1.625	1-5/8	41.7	1.568		0.039		0.118	1.550		0.031		5.06	0.022	0.016	6,650	4,480
US-0168	1.687	1-11/16	42.8	1.630		0.039		0.118	1.612		0.031		5.25	0.022	0.016	6,900	4,810
US-0175	1.750	1-3/4	44.4	1.693	±.007	0.039	+0.003 -.000	0.118	1.674	+0.000 -.020	0.031	±.002	5.45	0.022	0.016	7,150	4,990
US-0181	1.812	1-13/16	46.0	1.755		0.039		0.118	1.736		0.031		5.64	0.022	0.016	7,410	5,170
US-0187	1.875	1-7/8	47.6	1.818		0.039		0.118	1.798		0.031		5.84	0.022	0.016	7,670	5,350
US-0193	1.937	1-15/16	49.2	1.880		0.039		0.118	1.859		0.031		6.03	0.022	0.016	7,920	5,530
US-0200	2.000	2	50.8	1.943	±.008	0.039	+0.003 -.000	0.118	1.922	+0.000 -.025	0.031	±.002	6.23	0.022	0.016	8,180	5,710
US-0206	2.062	2-1/16	52.3	1.986		0.039		0.158	1.963		0.031		8.60	0.029	0.022	8,430	7,850
US-0212	2.125	2-1/8	53.9	2.049		0.039		0.158	2.026		0.031		8.86	0.029	0.022	8,690	8,090
US-0218	2.187	2-3/16	55.5	2.111		0.039		0.158	2.087		0.031		9.12	0.029	0.022	8,940	8,320
US-0225	2.250	2-1/4	57.1	2.174	±.009	0.039	+0.003 -.000	0.158	2.149	+0.000 -.025	0.031	±.002	9.38	0.029	0.022	9,200	8,560
US-0231	2.312	2-5/16	58.7	2.236		0.039		0.158	2.211		0.031		9.64	0.029	0.022	9,460	8,800
US-0237	2.375	2-3/8	60.3	2.299		0.039		0.158	2.273		0.031		9.90	0.029	0.022	9,710	9,040
US-0243	2.437	2-7/16	61.9	2.361		0.039		0.158	2.335		0.031		10.17	0.029	0.022	9,970	9,270
US-0250	2.500	2-1/2	63.5	2.424	±.010	0.039	+0.003 -.000	0.158	2.397	+0.000 -.025	0.031	±.002	10.43	0.029	0.022	10,220	9,510
US-0256	2.562	2-9/16	65.1	2.486		0.039		0.158	2.458		0.031		10.68	0.029	0.022	10,480	9,750
US-0262	2.625	2-5/8	66.6	2.549		0.039		0.158	2.521		0.031		10.95	0.029	0.022	10,740	9,990

* "F" ring thickness applies only to unplated rings. Add .001 To upper thickness tolerance for plated rings. Groove widths upper will accept plated rings without modification.

**See design information on page 5, ^see tolerance on page 6
The maximum groove bottom radius is .005" For rings 50 to 100 and .010" For rings 101 and larger.

RINGS ARE AXIALLY ASSEMBLED.



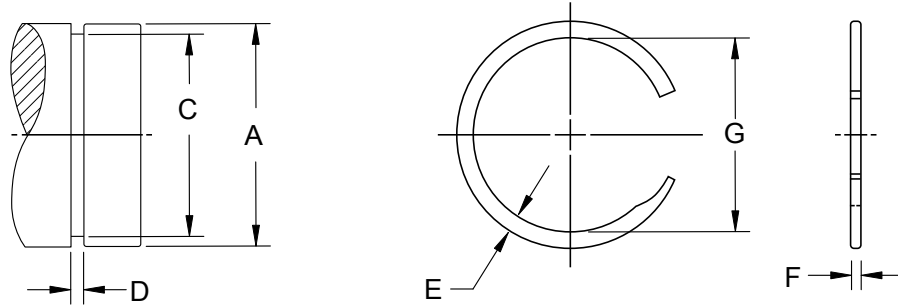
Sizes 281 & up may have optional slot. The Maximum Groove Bottom Radius is .005" for rings 50 to 100. .010 for rings 101 and larger

RING NO.	SHAFT DIAMETER			GROOVE SIZE				RING SIZE & WEIGHT					Maximum Corner		THRUST LOAD (PSI)		
	A DEC	A FRAC	A mm	DIAMETER		WIDTH		Radial Wall	FREE DIAMETER		THICKNESS*		Weight Per 1000 Pcs.	Radius	Chamfer	Based on Ring Shear	Based on Groove Yield
				C	Tol.	D	Tol.		E [^]	G	Tol.	F					
US-0268	6.687	2-11/16	68.2	2.611		0.039		0.158	2.582		0.031		11.21	0.029	0.022	10,990	10,230
US-0275	2.750	2-3/4	69.8	2.674		0.039		0.158	2.644		0.031		11.47	0.029	0.022	11,250	10,460
US-0281	2.812	2-13/16	71.4	2.736		0.034		0.158	2.706	+0.00	0.031	-0.025	11.73	0.029	0.022	11,500	10,700
US-0287	2.875	2-7/8	73.0	2.799		0.039		0.158	2.768		0.031		11.99	0.029	0.022	11,760	10,940
US-0293	2.937	2-15/16	74.5	2.861		0.039		0.158	2.830		0.031		12.25	0.029	0.022	12,010	11,180
US-0300	3.000	3	76.1	2.924		0.039		0.158	2.892		0.031		12.51	0.029	0.022	12,270	11,420
US-0306	3.062	3-1/16	77.7	2.970		0.044		0.188	2.938		0.039		19.34	0.035	0.026	15,760	14,100
US-0312	3.125	3-1/8	79.3	3.033		0.044		0.188	3.001		0.039		19.75	0.035	0.026	16,080	14,400
US-0318	3.187	3-3/16	81.0	3.095		0.044		0.188	3.062		0.039		20.13	0.035	0.026	16,400	14,680
US-0325	3.250	3-1/4	82.5	3.158		0.044		0.188	3.125		0.039		20.53	0.035	0.026	16,720	14,970
US-0331	3.312	3-5/16	84.4	3.220		0.044	+0.003	0.188	3.186		0.039		20.92	0.035	0.026	17,040	15,260
US-0337	3.375	3-3/8	85.8	3.283		0.044	-0.000	0.188	3.248		0.039		21.31	0.035	0.026	17,370	15,550
US-0343	3.437	3-7/16	87.2	3.345		0.044		0.188	3.310		0.039		21.71	0.035	0.026	17,690	15,830
US-0350	3.500	3-1/2	88.8	3.408		0.044		0.188	3.372	+0.00	0.039	-0.030	22.10	0.035	0.026	18,010	16,120
US-0356	3.562	3-9/16	90.5	3.470	±0.06	0.044		0.188	3.433		0.039		22.49	0.035	0.026	18,330	16,410
US-0362	3.625	3-5/8	92.0	3.533		0.044		0.188	3.496		0.039		22.89	0.035	0.026	18,650	16,700
US-0368	3.687	3-11/16	93.6	3.595		0.044		0.188	3.557		0.039		23.28	0.035	0.026	18,970	16,980
US-0375	3.750	3-3/4	95.2	3.658		0.044		0.188	3.620		0.039	±0.02	23.68	0.035	0.026	19,300	17,270
US-0381	3.812	3-13/16	97.1	3.720		0.044		0.188	3.681		0.039		24.06	0.035	0.026	19,620	17,560
US-0387	3.875	3-7/8	98.3	3.873		0.044		0.188	3.743		0.039		24.46	0.035	0.026	19,940	17,850
US-0393	3.937	3-15/16	99.9	3.845		0.044		0.188	3.805		0.039		24.85	0.035	0.026	20,260	18,140
US-0400	4.000	4	101.5	3.908		0.044		0.188	3.867		0.039		25.24	0.035	0.026	20,580	18,430
US-0412	4.125	4-1/8	104.8	4.015		0.052		0.225	3.973		0.046		37.07	0.042	0.031	25,040	22,720
US-0425	4.250	4-1/4	107.9	4.140		0.052		0.225	4.097		0.046		38.18	0.042	0.031	25,790	23,410
US-0437	4.375	4-3/8	111.0	4.265		0.052		0.225	4.221		0.046		39.30	0.042	0.031	26,550	24,100
US-0450	4.500	4-1/2	114.2	4.390		0.052		0.225	4.345	+0.00	0.046	-0.035	40.42	0.042	0.031	27,310	24,790
US-0462	4.625	4-5/8	117.4	4.515		0.052		0.225	4.468		0.046		41.53	0.042	0.031	28,070	25,470
US-0475	4.750	4-3/4	120.6	4.640		0.052		0.225	4.592		0.046		42.64	0.042	0.031	28,830	26,160
US-0487	4.875	4-7/8	123.8	4.765		0.052	+0.004	0.225	4.715	-0.000	0.046		43.75	0.042	0.031	29,590	26,850
US-0500	5.000	5	126.9	4.890		0.052		0.225	4.839		0.046		44.86	0.042	0.031	30,350	27,540
US-0525	5.250	5-1/4	133.0	5.119		0.067		0.225	5.067		0.061		62.55	0.040	0.030	40,240	34,440
US-0550	5.500	5-1/2	139.7	5.363		0.067		0.225	5.309		0.061		65.46	0.039	0.029	42,160	37,730
US-0575	5.750	5-3/4	146.1	5.606	±0.07	0.067		0.225	5.500	+0.00	0.061	-0.045	68.35	0.038	0.028	44,080	41,460
US-0600	6.000	6	152.3	5.850		0.067		0.225	5.792		0.061		71.26	0.037	0.028	45,990	45,060
US-0625	6.250	6-1/4	158.8	6.094	±0.08	0.067		0.265	6.033		0.061		87.90	0.046	0.035	47,910	48,820

* "F" ring thickness applies only to unplated rings. Add .001 To upper thickness tolerance for plated rings. Groove widths upper will accept plated rings without modification.

**See design information on page 5, ^see tolerance on page 6
The maximum groove bottom radius is .005" For rings 50 to 100 and .010" For rings 101 and larger.

RINGS ARE AXIALLY ASSEMBLED.



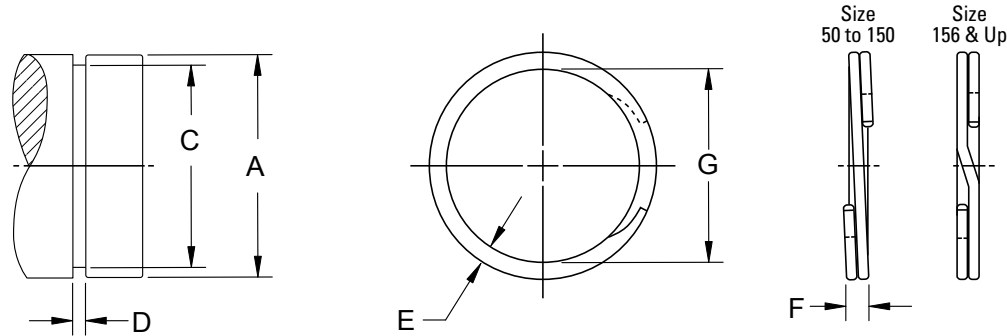
Sizes 281 & up may have optional slot. The Maximum Groove Bottom Radius is .005" for rings 50 to 100. .010 for rings 101 and larger

RING NO.	SHAFT DIAMETER			GROOVE SIZE				RING SIZE & WEIGHT					Maximum Corner		THRUST LOAD (PSI)		
	A DEC	A FRAC	A mm	DIAMETER		WIDTH		Radial Wall	FREE DIAMETER		THICKNESS*		Weight Per 1000 Pcs.	Radius	Chamfer	Based on Ring Shear	Based on Groove Yield
				C	Tol.	D	Tol.		E [^]	G	Tol.	F					
US-0650	6.500	6-1/2	165.1	6.338		0.067		0.265	6.275		0.061		91.32	0.046	0.034	49,830	52,730
US-0675	6.750	6-3/4	171.5	6.581		0.067		0.265	6.515	+ .000	0.061		94.71	0.045	0.033	51,740	57,130
US-0700	7.000	7	177.8	6.825		0.067		0.265	6.757	- .045	0.061		98.14	0.044	0.033	53,660	61,340
US-0725	7.250	7-1/4	184.2	7.069		0.067	+ .004	0.300	6.998		0.061		115.51	0.052	0.039	55,570	65,710
US-0750	7.500	7-1/2	190.5	7.313		0.067	- .000	0.300	7.240		0.061		119.38	0.051	0.038	57,490	70,230
US-0775	7.750	7-3/4	196.9	7.556		0.067		0.300	7.480		0.061		123.23	0.050	0.038	59,410	75,280
US-0800	8.000	8	203.2	7.800		0.067		0.300	7.722	+ .000	0.061		127.10	0.050	0.037	61,320	80,120
US-0825	8.250	8-1/4	209.6	8.044	± .008	0.082		0.345	7.964	- .060	0.076	± .002	191.84	0.060	0.045	63,240	85,100
US-0850	8.500	8-1/2	215.9	8.288		0.082		0.345	8.205		0.076		197.44	0.059	0.044	65,160	90,230
US-0875	8.750	8-3/4	222.3	8.531		0.082		0.345	8.446		0.076		203.07	0.059	0.044	67,070	95,950
US-0900	9.000	9	228.6	8.775		0.082	+ .005	0.345	8.687		0.076		208.69	0.058	0.043	68,990	101,400
US-0925	9.250	9-1/4	235.0	9.019		0.082	- .000	0.345	8.929		0.076		214.33	0.057	0.043	70,910	106,990
US-0950	9.500	9-1/2	241.3	9.263		0.082		0.345	9.170	+ .000	0.076		219.96	0.056	0.042	72,820	112,740
US-0975	9.750	9-3/4	247.7	9.506		0.082		0.345	9.411	- .070	0.076		225.57	0.055	0.041	74,740	119,120
US-1000	10.000	10	254.0	9.750		0.082		0.345	9.653		0.076		231.21	0.055	0.041	76,650	125,180

* "F" ring thickness applies only to unplated rings. Add .001 To upper thickness tolerance for plated rings. Groove widths upper will accept plated rings without modification.

**See design information on page 5, ^see tolerance on page 6

The maximum groove bottom radius is .005" For rings 50 to 100 and .010" For rings 101 and larger.

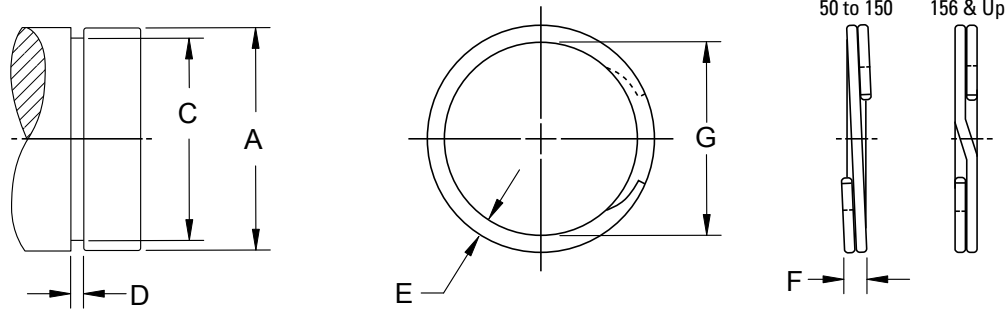


Sizes 281 & up may have optional slot. The Maximum Groove Bottom Radius is .005" for rings 50 to 100. .010 for rings 101 and larger.

RING NO.	SHAFT DIAMETER			GROOVE SIZE				RING SIZE & WEIGHT					Maximum Corner		THRUST LOAD (PSI)		
	A DEC	A FRAC	A mm	DIAMETER		WIDTH		Radial Wall	FREE DIAMETER		THICKNESS*		Weight Per 1000 Pcs.	Radius	Chamfer	Based on Ring Shear	Based on Groove Yield
				C	Tol.	D	Tol.		E [^]	G	Tol.	F					
RS-0050	0.500	1/2	12.7	0.474	±.002	0.030		0.045	0.467		0.025		0.44	0.015	0.012	2,000	550
RS-0053	0.531	17/32	13.5	0.505		0.030		0.045	0.498		0.025		0.48	0.015	0.012	2,130	640
RS-0055	0.551		14.0	0.525		0.030		0.045	0.518		0.025		0.50	0.015	0.012	2,210	700
RS-0056	0.562	9/16	14.3	0.536		0.030		0.045	0.529		0.025		0.51	0.015	0.012	2,250	730
RS-0059	0.594	19/32	15.1	0.569		0.030		0.045	0.561		0.025		0.54	0.015	0.012	2,380	740
RS-0062	0.625	5/8	15.9	0.594		0.030		0.055	0.585		0.025		0.70	0.019	0.015	2,500	970
RS-0065	0.656	21/32	16.7	0.625		0.030		0.055	0.617		0.025		0.74	0.019	0.015	2,630	1,020
RS-0066	0.669		17.0	0.638		0.030		0.055	0.629		0.025		0.75	0.019	0.015	2,680	1,040
RS-0068	0.687	11/16	17.5	0.656		0.030		0.055	0.647		0.025		0.77	0.019	0.015	2,750	1,060
RS-0071	0.718	23/32	18.3	0.687		0.030		0.055	0.679		0.025		0.81	0.019	0.015	2,870	1,110
RS-0075	0.750	3/4	19.0	0.719	0.036	0.065	0.710	+0.00	1.27	0.024	0.019	3,360	1,100				
RS-0078	0.781	25/32	19.8	0.750	0.036	0.065	0.741	-0.013	1.32	0.024	0.019	3,500	1,210				
RS-0081	0.812	13/16	20.6	0.781	0.036	0.065	0.771	±.003	1.38	0.024	0.019	3,640	1,260				
RS-0084	0.843	27/32	21.4	0.812	0.036	0.065	0.803		0.031	1.43	0.024	0.019	3,780	1,310			
RS-0087	0.875	7/8	22.2	0.838	0.036	0.065	0.828		0.031	1.48	0.022	0.018	3,920	1,620			
RS-0090	0.906	29/32	23.0	0.869	0.036	0.065	0.860		0.031	1.53	0.022	0.018	4,060	1,680			
RS-0093	0.937	15/16	23.8	0.900	0.036	0.065	0.889		0.031	1.57	0.022	0.018	4,200	1,740			
RS-0096	0.968	31/32	24.4	0.925	0.042	0.075	0.916		±.002	2.26	0.026	0.021	5,180	2,080			
RS-0098	0.984		25.0	0.941	0.042	0.075	0.930			0.037	2.31	0.026	0.021	5,260	2,120		
RS-0100	1.000	1	25.4	0.957	0.042	0.075	0.946			0.037	2.34	0.026	0.021	5,350	2,150		
RS-0102	1.023		26.0	0.980	0.042	0.075	0.968			0.037	2.39	0.026	0.021	5,470	2,200		
RS-0103	1.031	1-1/32	26.3	0.988	0.042	0.075	0.978			0.037	2.41	0.026	0.021	5,510	2,220		
RS-0106	1.062	1-1/16	27.0	1.020	0.042	0.075	1.007	0.037		2.48	0.026	0.021	5,680	2,230			
RS-0109	1.093	1-3/32	27.8	1.051	0.042	0.075	1.040	0.037		2.56	0.026	0.021	5,840	2,300			
RS-0112	1.125	1-1/8	29.0	1.083	0.042	0.075	1.070	0.037		2.64	0.026	0.021	6,010	2,370			
RS-0115	1.156	1-5/32	29.3	1.114	0.042	0.075	1.102	0.037		2.71	0.026	0.021	6,180	2,430			
RS-0118	1.188	1-3/16	30.2	1.140	0.048	0.085	1.127	±.004		3.52	0.029	0.023	7,380	2,850			
RS-0121	1.218	1-7/32	31.0	1.170	0.048	0.085	1.159		0.043	3.62	0.029	0.023	7,570	2,930			
RS-0125	1.250	1-1/4	31.7	1.202	0.048	0.085	1.188		0.043	3.71	0.029	0.023	7,770	3,000			
RS-0128	1.281	1-9/32	32.6	1.233	0.048	0.085	1.221		0.043	3.80	0.029	0.023	7,960	3,080			
RS-0131	1.312	1-5/16	33.3	1.264	0.048	0.095	1.251		0.043	4.35	0.034	0.027	8,150	3,150			
RS-0134	1.343	1-11/32	34.1	1.295	0.048	0.095	1.282		0.043	4.46	0.034	0.027	8,340	3,230			
RS-0137	1.375	1-3/8	34.9	1.323	0.048	0.095	1.308		0.043	4.55	0.034	0.027	8,540	3,580			
RS-0140	1.406	1-13/32	35.8	1.354	0.048	0.095	1.340		0.043	4.66	0.034	0.027	8,740	3,660			
RS-0143	1.437	1-7/16	36.5	1.385	0.048	0.095	1.370		0.043	4.76	0.034	0.027	8,930	3,740			

* "F" ring thickness applies only to unplated rings. Add .001 To upper thickness tolerance for plated rings. Groove widths upper will accept plated rings without modification.

**See design information on page 5, ^see tolerance on page 6
The maximum groove bottom radius is .005" For rings 50 to 100 and .010" For rings 101 and larger.

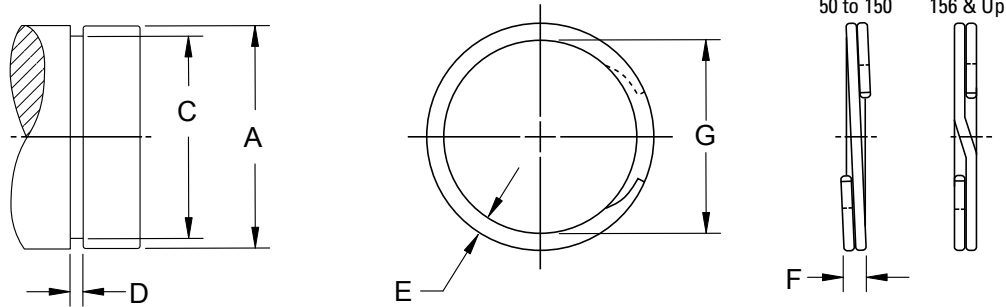


Sizes 281 & up may have optional slot. The Maximum Groove Bottom Radius is .005" for rings 50 to 100. .010 for rings 101 and larger

RING NO.	SHAFT DIAMETER			GROOVE SIZE				RING SIZE & WEIGHT					Maximum Corner		THRUST LOAD (PSI)		
	A DEC	A FRAC	A mm	DIAMETER		WIDTH		Radial Wall	FREE DIAMETER		THICKNESS*		Weight Per 1000 Pcs.	Radius	Chamfer	Based on Ring Shear	Based on Groove Yield
				C	Tol.	D	Tol.	E^A	G	Tol.	F	Tol.					
RS-0146	1.468	1-15/32	37.3	1.416	±.004	0.048		0.095	1.402	+0.00	0.043	±.002	4.87	0.034	0.027	9,120	3,820
RS-0150	1.500	1-1/2	38.1	1.448		0.048		0.095	1.433	-0.015	0.043		4.97	0.034	0.027	9,320	3,910
RS-0156	1.562	1-9/16	39.6	1.507		0.056		0.108	1.490		0.049		7.11	0.039	0.031	10,100	4,300
RS-0157	1.575		40.0	1.520	±.005	0.056		0.108	1.503	+0.00	0.049	-0.020	7.17	0.039	0.031	10,190	4,340
RS-0162	1.625	1-5/8	41.7	1.566		0.056		0.108	1.549		0.049		7.38	0.038	0.030	10,510	4,800
RS-0168	1.687	1-11/16	42.8	1.628		0.056		0.118	1.610		0.049		8.42	0.043	0.034	10,910	4,980
RS-0175	1.750	1-3/4	44.4	1.691		0.056		0.118	1.673		0.049		8.74	0.043	0.034	11,310	5,170
RS-0177	1.771		44.9	1.708		0.056		0.118	1.690		0.049		8.82	0.042	0.033	11,450	5,590
RS-0181	1.813	1-13/16	46.0	1.749		0.056		0.118	1.730		0.049		9.02	0.042	0.033	11,720	5,810
RS-0187	1.875	1-7/8	47.6	1.808		0.056		0.128	1.789		0.049		10.17	0.046	0.037	12,120	6,290
RS-0193	1.938	1-15/16	49.2	1.861		0.056		0.128	1.844		0.049		10.41	0.046	0.037	12,530	7,470
RS-0196	1.969	1-31/32	50.0	1.902		0.056		0.128	1.882		0.049		10.62	0.046	0.037	12,730	6,610
RS-0200	2.000	2	50.8	1.929		0.056		0.128	1.909		0.049		10.77	0.045	0.036	12,930	7,110
RS-0206	2.062	2-1/16	52.3	1.992		0.056		0.128	1.971		0.049		11.11	0.045	0.036	13,330	7,230
RS-0212	2.125	2-1/8	53.9	2.051		0.056		0.128	2.029		0.049		11.42	0.044	0.035	13,740	7,870
RS-0215	2.156	2-5/32	54.7	2.082	0.056		0.138	2.060	0.049	12.55	0.049	0.039	13,940	7,990			
RS-0216	2.165		55.0	2.091	0.056	+.004	0.138	2.070	0.049	12.61	0.049	0.039	14,000	8,020			
RS-0218	2.188	2-3/16	55.5	2.113	0.056		-.000	0.138	2.092	0.049	12.74	0.049	0.039	14,150	8,220		
RS-0225	2.250	2-1/4	57.1	2.176	0.056			0.138	2.153	0.049	±.003	13.10	0.049	0.039	14,550	8,340	
RS-0231	2.312	2-5/16	58.7	2.234	0.056		0.138	2.211	0.049	13.45	0.048	0.038	14,950	9,030			
RS-0236	2.362		59.9	2.284	0.056		0.138	2.261	0.049	13.74	0.048	0.038	15,270	9,230			
RS-0237	2.375	2-3/8	60.3	2.297	0.056		0.138	2.273	+0.00	13.81	0.048	0.038	15,350	9,280			
RS-0243	2.437	2-7/16	61.9	2.355	0.056		0.148	2.331	-0.025	15.25	0.052	0.041	15,760	10,000			
RS-0250	2.500	2-1/2	63.5	2.418	0.056	±.006	0.148	2.394	0.049	15.64	0.052	0.041	16,160	10,260			
RS-0255	2.559		64.9	2.473	0.056			0.148	2.449	0.049	15.99	0.051	0.040	16,540	11,020		
RS-0256	2.562	2-9/16	65.1	2.476	0.056			0.148	2.452	0.049	15.97	0.051	0.040	16,560	11,030		
RS-0262	2.625	2-5/8	66.6	2.539	0.056			0.148	2.514	0.049	16.37	0.051	0.040	16,970	11,300		
RS-0268	2.688	2-11/16	68.2	2.597	0.056			0.158	2.572	0.049	17.93	0.055	0.044	17,380	12,250		
RS-0275	2.750	2-3/4	69.8	2.660	0.056			0.158	2.635	0.049	18.36	0.055	0.044	17,780	12,390		
RS-0281	2.813	2-13/16	71.4	2.722	0.056			0.168	2.696	0.049	20.03	0.060	0.048	18,190	12,820		
RS-0287	2.875	2-7/8	73.0	2.781	0.056			0.168	2.755	0.049	20.45	0.059	0.047	18,590	13,530		
RS-0293	2.937	2-15/16	74.5	2.843	0.056			0.168	2.817	+0.00	20.90	0.059	0.047	18,990	13,820		
RS-0295	2.952		74.9	2.858	0.056			0.168	2.831	-0.030	21.00	0.059	0.047	19,090	13,890		
RS-0300	3.000	3	76.1	2.904	0.068		+.005	0.168	2.877	0.061	26.66	0.058	0.046	24,150	14,420		
RS-0306	3.062	3-1/116	77.7	2.966	0.068			-.000	0.168	2.938	0.061	27.21	0.058	0.046	24,640	14,720	

* "F" ring thickness applies only to unplated rings. Add .001 To upper thickness tolerance for plated rings. Groove widths upper will accept plated rings without modification.

**See design information on page 5, ^see tolerance on page 6
The maximum groove bottom radius is .005" For rings 50 to 100 and .010" For rings 101 and larger.

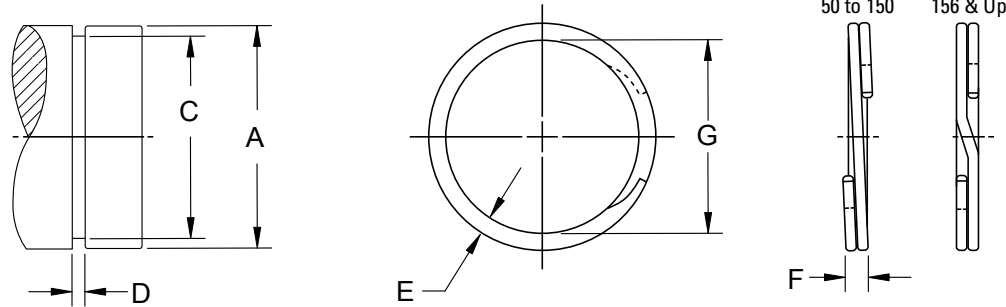


Sizes 281 & up may have optional slot. The Maximum Groove Bottom Radius is .005" for rings 50 to 100.
.010 for rings 101 and larger

RING NO.	SHAFT DIAMETER			GROOVE SIZE				RING SIZE & WEIGHT					Maximum Corner		THRUST LOAD (PSI)		
	A DEC	A FRAC	A mm	DIAMETER		WIDTH		Radial Wall	FREE DIAMETER		THICKNESS*		Weight Per 1000 Pcs.	Radius	Chamfer	Based on Ring Shear	Based on Groove Yield
				C	Tol.	D	Tol.		E [^]	G	Tol.	F					
RS-0312	3.125	3-1/8	79.3	3.027		0.068		0.178	3.000		0.061		29.51	0.063	0.050	25,150	15,330
RS-0314	3.149		79.9	3.051		0.068		0.178	3.023		0.061		29.72	0.063	0.050	25,340	15,450
RS-0318	3.187	3-3/16	81.0	3.089		0.068		0.178	3.061		0.061		30.09	0.063	0.050	25,650	15,640
RS-0325	3.250	3-1/4	82.5	3.150		0.068		0.178	3.121	+ .000	0.061		30.66	0.062	0.050	26,160	16,270
RS-0331	3.312	3-5/16	84.4	3.208		0.068		0.188	3.180	- .030	0.061		33.07	0.066	0.053	26,660	17,250
RS-0334	3.343	3-11/32	84.9	3.239		0.068		0.188	3.210		0.061		33.27	0.066	0.053	26,910	17,410
RS-0337	3.375	3-3/8	85.8	3.271		0.068		0.188	3.242		0.061		33.59	0.066	0.053	27,160	17,570
RS-0343	3.437	3-7/16	87.2	3.331		0.068		0.188	3.301		0.061		34.18	0.066	0.053	27,660	18,240
RS-0350	3.500	3-1/2	88.8	3.394		0.068		0.188	3.363		0.061		34.80	0.066	0.053	28,170	18,580
RS-0354	3.543		89.9	3.433		0.068		0.198	3.402		0.061		37.18	0.070	0.056	28,520	19,510
RS-0356	3.562	3-9/16	90.5	3.452		0.068		0.198	3.422		0.061		37.39	0.070	0.056	28,670	19,620
RS-0362	3.625	3-5/8	92.0	3.515		0.068		0.198	3.483		0.061		38.03	0.070	0.056	29,180	19,970
RS-0368	3.687	3-11/16	93.6	3.575		0.068		0.198	3.543		0.061		38.67	0.069	0.055	29,680	20,680
RS-0374	3.740		95.0	3.628		0.068		0.198	3.597		0.061		39.24	0.069	0.055	30,100	20,970
RS-0375	3.750	3-3/4	95.2	3.638		0.068		0.198	3.606		0.061	+ .003	39.33	0.069	0.055	30,180	21,030
RS-0381	3.812	3-13/16	97.1	3.700		0.068		0.198	3.668		0.061		39.99	0.069	0.055	30,680	21,380
RS-0387	3.875	3-7/8	98.3	3.757		0.068		0.208	3.724		0.061		42.74	0.073	0.058	31,190	22,890
RS-0393	3.938	3-15/16	99.9	3.820	± .006	0.068	+ .005	0.208	3.784	- .000	0.061		43.40	0.073	0.058	31,700	23,270
RS-0400	4.000	4	101.5	3.876		0.068		0.218	3.842		0.061		46.28	0.076	0.061	32,190	24,840
RS-0406	4.063	4-1/16	103.2	3.939		0.068		0.218	3.906		0.061		47.03	0.076	0.061	32,700	25,230
RS-0412	4.125	4-1/8	104.8	4.000		0.068		0.218	3.967		0.061		47.62	0.076	0.061	33,200	25,820
RS-0413	4.134		105.0	4.010		0.068		0.218	3.975	+ .000	0.061		47.71	0.076	0.061	33,270	25,670
RS-0418	4.188	4-3/16	106.5	4.058		0.068		0.218	4.030	- .040	0.061		48.35	0.077	0.061	33,710	27,260
RS-0425	4.250	4-1/4	107.9	4.120		0.068		0.228	4.084		0.061		51.35	0.080	0.064	34,210	27,660
RS-0431	4.312	4-5/16	109.5	4.182		0.068		0.228	4.147		0.061		52.12	0.080	0.064	34,710	28,070
RSO-433	4.331		110.0	4.200		0.068		0.228	4.164		0.061		52.32	0.080	0.064	34,860	28,410
RS-0437	4.375	4-3/8	111.0	4.245		0.068		0.228	4.208		0.061		52.86	0.080	0.064	35,210	28,480
RS-0443	4.437	4-7/16	112.7	4.307		0.068		0.228	4.271		0.061		53.62	0.080	0.064	35,710	28,880
RS-0450	4.500	4-1/2	114.2	4.364		0.068		0.238	4.326		0.061		56.80	0.083	0.066	36,220	30,640
RS-0456	4.562	4-9/16	116.0	4.422		0.079		0.250	4.384		0.072		70.70	0.088	0.071	43,340	31,980
RS-0462	4.625	4-5/8	117.4	4.485		0.079		0.250	4.447		0.072		71.68	0.088	0.071	43,940	32,420
RS-0468	4.687	4-11/16	119.0	4.547		0.079		0.250	4.508		0.072		72.63	0.088	0.071	44,530	32,860
RS-0472	4.724		120.0	4.584		0.079		0.250	4.546		0.072	+ .004	73.22	0.088	0.071	44,880	33,120
RS-0475	4.750	4-3/4	120.6	4.610		0.079		0.250	4.571		0.072		73.61	0.088	0.071	45,130	33,300
RS-0481	4.812	4-13/16	122.2	4.672		0.079		0.250	4.633		0.072		74.57	0.088	0.071	45,710	33,730

* "F" ring thickness applies only to unplated rings. Add .001 To upper thickness tolerance for plated rings. Groove widths upper will accept plated rings without modification.

**See design information on page 5, ^see tolerance on page 6
The maximum groove bottom radius is .005" For rings 50 to 100 and .010" For rings 101 and larger.

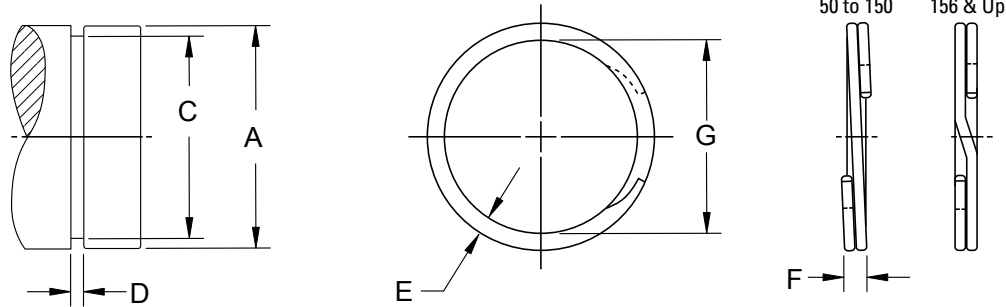


Sizes 281 & up may have optional slot. The Maximum Groove Bottom Radius is .005" for rings 50 to 100. .010 for rings 101 and larger

RING NO.	SHAFT DIAMETER			GROOVE SIZE				RING SIZE & WEIGHT					Maximum Corner		THRUST LOAD (PSI)						
	A DEC	A FRAC	A mm	DIAMETER		WIDTH		Radial Wall	FREE DIAMETER		THICKNESS*		Weight Per 1000 Pcs.	Radius	Chamfer	Based on Ring Shear	Based on Groove Yield				
				C	Tol.	D	Tol.		E^	G	Tol.	F						Tol.			
RS-0487	4.875	4-7/8	123.8	4.735	±.006	0.079	+.005 -.000	0.250	4.695	+.000 -.040	0.072	75.38	0.088	0.071	46,310	34,170					
RS-0493	4.937	4-15/16	125.4	4.797		0.079		0.250	4.757		0.072						76.35	0.088	0.071	46,900	34,610
RS-0500	5.000	5	126.9	4.856		0.079		0.250	4.820		0.072						77.32	0.087	0.070	47,500	36,050
RS-0511	5.118		130.0	4.974		0.079		0.250	4.934		0.072						79.10	0.087	0.070	48,620	36,900
RS-0512	5.125	5-1/8	130.1	4.981	0.079	0.250	4.939	0.072	79.18	0.087	0.070	48,690	36,950								
RS-0525	5.250	5-1/4	133.2	5.107	0.079	0.250	5.064	0.072	81.13	0.087	0.070	49,880	37,590								
RS-0537	5.375	5-3/8	136.5	5.228	0.079	0.250	5.187	0.072	83.04	0.086	0.069	51,060	39,560								
RS-0550	5.500	5-1/2	139.9	5.353	0.079	0.250	5.308	0.072	84.92	0.086	0.069	52,250	40,480								
RS-0551	5.511		140.0	5.364	0.079	0.250	5.320	0.072	85.10	0.086	0.069	52,350	40,560								
RS-0562	5.625	5-5/8	142.8	5.478	±.007	0.079	0.250	5.433	+.000	0.072	86.94	0.086	0.069	53,440	41,400						
RS-0575	5.750	5-3/4	145.9	5.597	0.079	0.250	5.550	0.072	88.69	0.085	0.068	54,630	44,050								
RS-0587	5.875	5-7/8	149.2	5.722	0.079	0.250	5.674	0.072	90.61	0.085	0.068	55,810	45,010								
RS-0590	5.905		150.0	5.752	0.079	0.250	5.705	0.072	91.10	0.085	0.068	56,100	45,240								
RS-0600	6.000	6	152.3	5.847	0.079	0.250	5.798	0.072	92.54	0.085	0.068	57,000	45,970								
RS-0612	6.125	6-1/8	155.6	5.953	0.094	0.312	5.903	0.086	142.49	0.111	0.088	69,500	52,750								
RS-0625	6.250	6-1/4	158.8	6.078	0.094	0.312	6.026	0.086	144.46	0.111	0.088	70,920	53,830								
RS-0629	6.299		160.0	6.127	0.094	0.312	6.076	0.086	145.64	0.111	0.088	71,480	54,250								
RS-0637	6.375	6-3/8	162.0	6.203	0.094	0.312	6.152	0.086	147.40	0.111	0.088	72,340	54,900								
RS-0650	6.500	6-1/2	165.1	6.328	0.094	0.312	6.274	0.086	150.24	0.111	0.088	73,760	55,980								
RS-0662	6.625	6-5/8	168.3	6.443	0.094	0.312	6.390	0.086	152.93	0.108	0.087	75,180	60,380								
RS-0675	6.750	6-3/4	171.4	6.568	0.094	0.312	6.513	0.086	155.80	0.108	0.087	76,590	61,510								
RS-0687	6.875	6-7/8	174.6	6.693	0.094	0.312	6.638	0.086	158.70	0.108	0.087	78,010	62,650								
RS-0700	7.000	7	177.8	6.818	0.094	0.312	6.761	0.086	161.56	0.108	0.087	79,430	63,790								
RS-0712	7.125	7-1/8	181.0	6.933	0.094	0.312	6.877	0.086	164.72	0.106	0.085	80,850	68,500								
RS-0725	7.250	7-1/4	184.1	7.058	±.008	0.094	6.999	0.086	167.56	0.106	0.085	82,270	69,700								
RS-0737	7.375	7-3/8	187.3	7.183	0.094	0.312	7.125	0.086	170.50	0.106	0.085	83,690	70,900								
RS-0750	7.500	7-1/2	190.5	7.308	0.094	0.312	7.250	0.086	173.41	0.106	0.085	85,110	72,100								
RS-0762	7.625	7-5/8	193.7	7.423	0.094	0.312	7.363	0.086	176.04	0.103	0.082	86,520	77,120								
RS-0775	7.750	7-3/4	196.8	7.548	0.094	0.312	7.486	0.086	178.91	0.103	0.082	87,940	78,390								
RS-0787	7.875	7-7/8	200.0	7.673	0.094	0.312	7.611	0.086	181.82	0.103	0.082	89,360	79,650								
RS-0800	8.000	8	203.0	7.798	0.094	0.312	7.734	0.086	183.76	0.103	0.082	90,780	80,920								
RS-0825	8.250	8-1/4	209.5	8.038	0.094	0.375	7.972	0.086	229.29	0.132	0.106	93,620	87,580								
RS-0850	8.500	8-1/2	216.0	8.288	0.094	0.375	8.220	0.086	236.24	0.132	0.106	96,450	90,230								
RS-0875	8.750	8-3/4	222.2	8.528	0.094	0.375	8.459	0.086	242.93	0.130	0.104	99,290	97,270								
RS-0900	9.000	9	228.6	8.778	0.094	0.375	8.707	0.086	249.88	0.130	0.104	102,130	100,050								

* "F" ring thickness applies only to unplated rings. Add .001 To upper thickness tolerance for plated rings. Groove widths upper will accept plated rings without modification.

**See design information on page 5, ^see tolerance on page 6
The maximum groove bottom radius is .005" For rings 50 to 100 and .010" For rings 101 and larger.



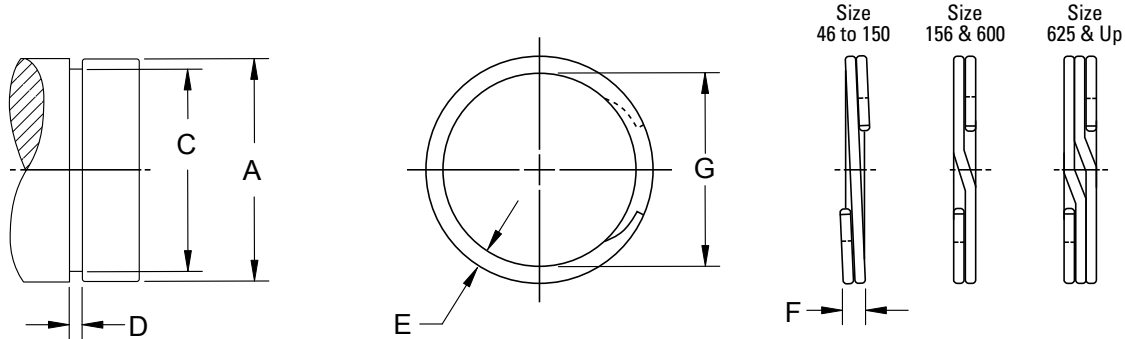
Sizes 281 & up may have optional slot. The Maximum Groove Bottom Radius is .005" for rings 50 to 100. .010 for rings 101 and larger

RING NO.	SHAFT			GROOVE SIZE				RING SIZE & WEIGHT					Maximum Corner		THRUST LOAD (PSI)		
	DIAMETER			DIAMETER		WIDTH		Radial Wall	FREE DIAMETER		THICKNESS*		Weight Per 1000 Pcs.	Radius	Chamfer	Based on Ring Shear	Based on Groove Yield
	A DEC	A FRAC	A mm	C	Tol.	D	Tol.		E [^]	G	Tol.	F					
RS-0925	9.250	9-1/4	235.0	9.018	±.008	0.094	+.006 -.000	0.375	8.945	+.000 -.070	0.086	±.004	256.54	0.127	0.102	104,960	107,560
RS-0950	9.500	9-1/2	241.0	9.268		0.094		0.375	9.194		0.086		263.51	0.127	0.102	107,800	110,360
RS-0975	9.750	9-3/4	247.8	9.508		0.094		0.375	9.432		0.086		270.18	0.125	0.100	110,640	118,150
RS-1000	10.000	10	254.0	9.758		0.094		0.375	9.680		0.086		277.13	0.125	0.100	113,470	121,180
RS-1025	10.250	10-1/4	260.7	9.998		0.094		0.375	9.918		0.086		283.79	0.122	0.098	116,310	129,340
RS-1050	10.500	10-1/2	265.0	10.248		0.094		0.375	10.166		0.086		290.73	0.122	0.098	119,150	132,490
RS-1075	10.750	10-3/4	273.0	10.488		0.094		0.375	10.405		0.086		297.44	0.120	0.096	121,980	141,030
RS-1100	11.000	11	279.6	10.738		0.094		0.375	10.653		0.086		304.38	0.120	0.096	124,820	144,310

* "F" ring thickness applies only to unplated rings. Add .001 To upper thickness tolerance for plated rings. Groove widths upper will accept plated rings without modification.

**See design information on page 5, ^see tolerance on page 6

The maximum groove bottom radius is .005" For rings 50 to 100 and .010" For rings 101 and larger.

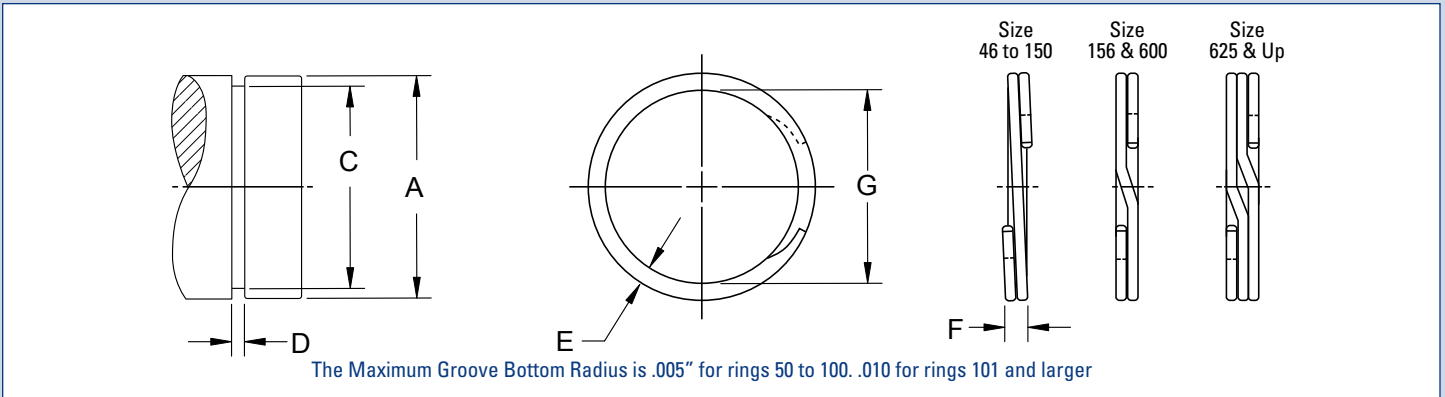


The Maximum Groove Bottom Radius is .005" for rings 50 to 100. .010 for rings 101 and larger

RING NO.	SHAFT DIAMETER			GROOVE SIZE				RING SIZE & WEIGHT						Maximum Corner		THRUST LOAD (PSI)				
	A DEC	A FRAC	A mm	DIAMETER		WIDTH		Radial Wall	FREE DIAMETER		THICKNESS*		Weight Per 1000 Pcs.	Radius	Chamfer	Based on Ring Shear SF - 3	Based on Groove Yield SF - 2			
				C	Tol.	D	Tol.	E [^]	G	Tol.	F	Tol.								
RST-0046	0.469	15/32	11.9	0.443	±.002	0.028		0.045	0.436		0.024		0.42	0.016	0.013	1,800	470			
RST-0050	0.500	1/2	12.7	0.474		0.039		0.045	0.469		0.035		0.64	0.016	0.013	2,530	360			
RST-0055	0.551		14.0	0.524		0.039		0.045	0.518		0.035		0.71	0.016	0.013	2,790	450			
RST-0056	0.562	9/16	14.3	0.535		0.039		0.045	0.529		0.035		0.72	0.015	0.012	2,840	470			
RST-0059	0.594	19/32	15.1	0.565		0.039		0.045	0.559		0.035		0.76	0.015	0.012	3,000	580			
RST-0062	0.625	5/8	15.9	0.596		0.039		0.055	0.590		0.035		1.00	0.020	0.016	3,160	640			
RST-0066	0.669		17.0	0.638		0.039		0.055	0.630		0.035		1.07	0.020	0.016	3,380	770			
RST-0068	0.688	11/16	17.5	0.655		0.046		+0.003	0.065		0.648		+0.000	0.042	±.002	1.55	0.025	0.020	4,170	730
RST-0075	0.750	3/4	19.0	0.715		±.003		-0.000	0.065		0.708		-0.013	0.042		1.69	0.024	0.019	4,550	950
RST-0078	0.781	23/32	19.8	0.745	0.046		0.065	0.738		0.042	1.76	0.024	0.019	4,740		1,070				
RST-0081	0.812	13/16	20.6	0.776		0.046		0.065	0.768		0.042		1.83	0.024	0.019	4,930	1,150			
RST-0087	0.875	7/8	22.2	0.835		0.046			0.075		0.827			0.042	2.28	0.027	0.022	5,310	1,490	
RST-0093	0.938	15/16	23.8	0.894		0.046			0.075		0.886			0.042	2.44	0.027	0.022	5,690	1,920	
RST-0098	0.984		25.0	0.940		0.046		0.075	0.934		0.042		2.56	0.026	0.021	5,970	2,170			
RST-0100	1.000	1	25.4	0.955		0.046			0.075		0.947			0.042	2.60	0.026	0.021	6,070	2,250	
RST-0102	1.023		26.0	0.977		0.046			0.075		0.969			0.042	2.66	0.026	0.021	6,210	2,350	
RST-0106	1.062	1-1/16	27.0	1.015		0.056		0.088	1.005		0.050		3.93	0.032	0.026	7,010	1,940			
RST-0112	1.125	1-1/8	29.0	1.075		±.004		0.056	0.088		1.064		+0.000	0.050	4.15	0.031	0.025	7,420	2,330	
RST-0118	1.188	1-3/16	30.2	1.135		0.056			0.088		1.126			0.050	4.38	0.031	0.025	7,370	2,860	
RST-0125	1.250	1-1/4	31.7	1.195		0.056		0.093	1.184		0.050		4.88	0.033	0.026	8,250	3,240			
RST-0131	1.312	1-5/16	33.3	1.250		0.056			0.098		1.240		-0.015	0.050	5.40	0.033	0.026	8,650	4,070	
RST-0137	1.375	1-3/8	34.9	1.310		0.056			0.103		1.298			0.050	5.95	0.035	0.028	9,070	4,470	
RST-0143	1.438	1-7/16	36.5	1.370		0.056		0.103	1.359		0.050		6.18	0.035	0.028	9,490	4,900			
RST-0150	1.500	1-1/2	38.1	1.430		0.056		+0.004	0.103		1.419		-0.020	0.050	6.46	0.034	0.027	9,900	5,260	
RST-0156	1.562	1-9/16	39.6	1.490		±.006		-0.000	0.113		1.476			0.062	8.80	0.036	0.029	12,780	5,320	
RST-0162	1.625	1-5/8	41.7	1.550		0.068		0.118	1.537		0.062		10.07	0.040	0.032	13,290	6,060			
RST-0168	1.687	1-11/16	42.8	1.610		0.068			0.118		1.598			0.062	10.45	0.040	0.032	13,800	6,500	
RST-0175	1.750	1-3/4	44.4	1.670		0.068			0.118		1.657			0.062	10.82	0.039	0.031	14,320	7,010	
RST-0177	1.771		44.9	1.689		0.068		0.123	1.676		0.062		11.44	0.041	0.033	14,490	7,270			
RST-0181	1.812	1-13/16	46.0	1.730		0.068			0.123		1.714			0.062	11.69	0.041	0.033	14,820	7,440	
RST-0187	1.875	1-7/8	47.6	1.790		0.068			0.123		1.774			0.062	12.08	0.040	0.032	15,340	7,980	
RST-0196	1.969	1-31/32	50.0	1.879		0.068		0.123	1.864		0.062		12.67	0.039	0.031	16,110	8,870			
RST-0200	2.000	2	50.8	1.910		0.068			0.128		1.894			0.062	13.43	0.041	0.033	16,360	9,010	
RST-0206	2.062	2-1/16	52.3	1.970		±.006		+0.005	0.141		1.955		+0.000	0.078	19.35	0.042	0.034	21,220	9,500	
RST-0212	2.125	2-1/8	53.9	2.027		-0.000	0.141	2.012	-0.025	0.078	19.89	0.046	0.037	21,870	10,430					

* "F" ring thickness applies only to unplated rings. Add .001 To upper thickness tolerance for plated rings. Groove widths upper will accept plated rings without modification.

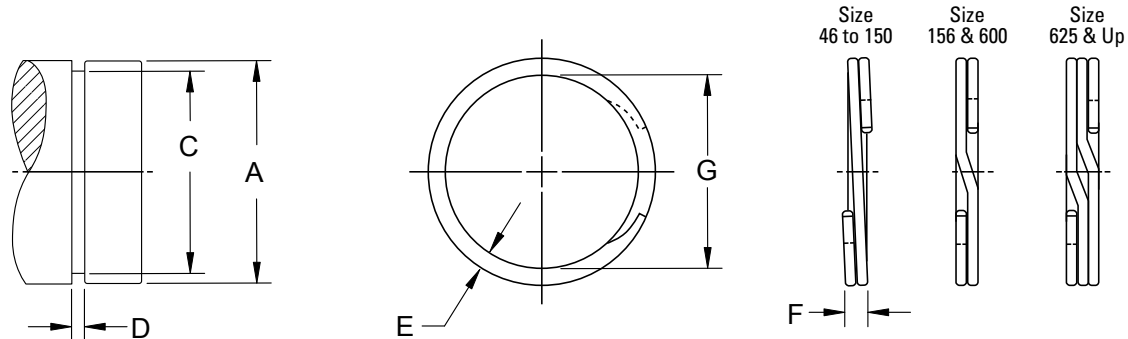
**See design information on page 5, ^see tolerance on page 6
The maximum groove bottom radius is .005" For rings 50 to 100 and .010" For rings 101 and larger.



RING NO.	SHAFT DIAMETER			GROOVE SIZE				RING SIZE & WEIGHT						Maximum Corner		THRUST LOAD (PSI)		
	A DEC	A FRAC	A mm	DIAMETER		WIDTH		Radial Wall	FREE DIAMETER			THICKNESS*		Weight Per 1000 Pcs.	Radius	Chamfer	Based on Ring Shear SF - 3	Based on Groove Yield SF - 2
				C	Tol.	D	Tol.		E [^]	G	Tol.	F	Tol.					
RST-0215	2.156	2-5/32	54.7	2.057		0.086		0.141	2.041		0.078		20.16	0.046	0.037	22,190	10,690	
RST-0225	2.250	2-1/4	57.1	2.145		0.086		0.141	2.129		0.078		21.00	0.044	0.035	23,160	11,830	
RST-0231	2.312	2-5/16	58.7	2.205		0.086		0.141	2.188		0.078		21.57	0.044	0.035	23,790	12,390	
RST-0237	2.375	2-3/8	60.3	2.265		0.086		0.141	2.248		0.078		22.14	0.043	0.034	24,440	13,080	
RST-0243	2.437	2-7/16	61.9	2.325		0.086		0.141	2.307	+0.00	0.078	-0.025	22.70	0.043	0.034	25,080	13,670	
RST-0250	2.500	2-1/2	63.5	2.385		0.086		0.188	2.366		0.078		31.61	0.065	0.052	25,730	14,400	
RST-0255	2.559		64.9	2.451		0.086		0.188	2.432		0.078		32.45	0.067	0.054	26,340	14,740	
RST-0262	2.625	2-5/8	66.6	2.505		0.086		0.188	2.485		0.078		33.13	0.064	0.051	27,020	15,770	
RST-0268	2.687	2-11/16	68.2	2.565		0.086		0.188	2.545		0.078		33.89	0.063	0.051	27,650	16,410	
RST-0275	2.750	2-3/4	69.8	2.625		0.103		0.188	2.604		0.093		40.79	0.063	0.050	32,140	17,210	
RST-0287	2.875	2-7/8	73.0	2.742		0.103		0.188	2.722		0.093		42.57	0.061	0.049	33,600	19,150	
RST-0293	2.937	2-15/16	74.5	2.801		0.103		0.188	2.780		0.093		43.44	0.060	0.048	34,320	20,000	
RST-0300	3.000	3	76.1	2.860		0.103		0.188	2.838		0.093		44.31	0.059	0.047	35,060	21,030	
RST-0306	3.062	3-1/16	77.7	2.920		0.103		0.188	2.897	+0.00	0.093	-0.030	45.20	0.058	0.047	35,780	21,770	
RST-0312	3.125	3-1/8	79.3	2.980		0.103		0.188	2.957		0.093		46.10	0.058	0.047	36,520	22,960	
RST-0315	3.156	3-5/32	80.1	3.010		0.103	+0.005	0.188	2.986		0.093		46.54	0.057	0.046	36,880	23,070	
RST-0325	3.250	3-1/4	82.5	3.100	±0.006	0.103	-0.000	0.188	3.075		0.093		47.88	0.056	0.045	37,980	24,410	
RST-0334	3.344		84.9	3.190		0.103		0.188	3.164		0.093	±0.003	49.22	0.055	0.044	39,080	25,790	
RST-0343	3.437	3-7/16	87.2	3.280		0.103		0.188	3.254		0.093		50.57	0.055	0.044	40,170	27,020	
RST-0350	3.500	3-1/2	88.8	3.340		0.120		0.250	3.315		0.111		83.66	0.085	0.068	48,820	28,040	
RST-0354	3.543		89.9	3.381		0.120		0.250	3.356		0.111		84.40	0.084	0.067	49,420	28,740	
RST-0362	3.625	3-5/8	92.0	3.458		0.120		0.250	3.433		0.111		86.25	0.083	0.067	50,560	30,310	
RST-0368	3.687	3-11/16	93.6	3.517		0.120		0.250	3.483		0.111		87.45	0.082	0.066	51,430	31,380	
RST-0375	3.750	3-3/4	95.2	3.577		0.120		0.250	3.550		0.111		89.06	0.082	0.066	52,310	32,480	
RST-0387	3.875	3-7/8	98.3	3.696		0.120		0.250	3.670		0.111		91.94	0.080	0.064	54,050	34,730	
RST-0393	3.938	3-15/16	99.9	3.756		0.120		0.250	3.730	+0.00	0.111	-0.040	93.38	0.080	0.064	54,930	35,890	
RST-0400	4.000	4	101.5	3.815		0.120		0.250	3.787		0.111		94.75	0.079	0.063	55,790	37,050	
RST-0425	4.250	4-1/4	107.9	4.065		0.120		0.250	4.037		0.111		100.75	0.079	0.063	59,280	39,370	
RST-0437	4.375	4-3/8	111.0	4.190		0.120		0.250	4.162		0.111		103.75	0.079	0.063	61,020	40,530	
RST-0450	4.500	4-1/2	114.2	4.310		0.120		0.250	4.280		0.111		106.58	0.078	0.062	62,770	42,810	
RST-0475	4.750	4-3/4	120.6	4.550		0.120		0.250	4.515		0.111		112.23	0.075	0.060	66,260	47,570	
RST-0500	5.000	5	126.9	4.790		0.120		0.250	4.755		0.111		117.26	0.072	0.058	69,740	52,580	
RST-0525	5.250	5-1/4	133.2	5.030		0.139		0.375	4.995		0.127		217.05	0.132	0.106	83,790	57,830	
RST-0550	5.500	5-1/2	140.0	5.265	±0.007	0.139	+0.006	0.375	5.229	-0.00	0.127	±0.004	226.73	0.129	0.103	87,780	64,720	
RST-0575	5.750	5-3/4	145.9	5.505		0.139	-0.000	0.375	5.466		0.127		236.52	0.127	0.101	91,770	70,540	

* "F" ring thickness applies only to unplated rings. Add .001 To upper thickness tolerance for plated rings. Groove widths upper will accept plated rings without modification.

**See design information on page 5, ^see tolerance on page 6
The maximum groove bottom radius is .005" For rings 50 to 100 and .010" For rings 101 and larger.



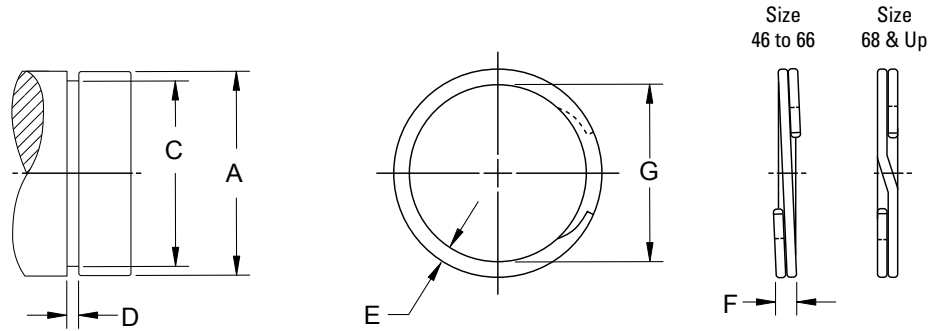
The Maximum Groove Bottom Radius is .005" for rings 50 to 100. .010" for rings 101 and larger

RING NO.	SHAFT DIAMETER			GROOVE SIZE				RING SIZE & WEIGHT					Maximum Corner		THRUST LOAD (PSI)		
	A DEC	A FRAC	A mm	DIAMETER		WIDTH		Radial Wall	FREE DIAMETER		THICKNESS*		Weight Per 1000 Pcs.	Radius	Chamfer	Based on Ring Shear	Based on Groove Yield
				C	Tol.	D	Tol.	E [^]	G	Tol.	F	Tol.					
RST-0600	6.000		152.3	5.745		0.139		0.375	5.705		0.127		246.41	0.124	0.099	95,760	76,610
ALL RINGS LISTED BELOW ARE THREE TURN CRIMPED CONSTRUCTION																	
RST-0625	6.250	6-1/4	158.6	5.985	±.008	0.174	+.008 -.000	0.312	5.938	+.000 -.060	0.165	±.005	265.93	0.090	0.072	129,590	82,930
RST-0650	6.500	6-1/2	165.0	6.225		0.174		0.312	6.182		0.165		276.94	0.087	0.072	134,770	89,510
RST-0675	6.750	6-3/4	171.3	6.465		0.174		0.312	6.420		0.165		287.68	0.085	0.068	139,960	96,330
RST-0700	7.000	7	177.7	6.705		0.174		0.312	6.658		0.165		298.42	0.082	0.066	145,140	103,400
RST-0725	7.250	7-1/4	184.0	6.942		0.174		0.312	6.894	0.165	374.87		0.110	0.088	172,190	111,810	
RST-0750	7.500	7-1/2	190.4	7.180		0.209		0.375	7.130	0.189	445.09		0.107	0.086	178,130	120,170	
RST-0775	7.750	7-3/4	196.8	7.420		0.209		0.375	7.368	0.189	459.88		0.105	0.084	184,070	128,060	
RST-0800	8.000	8	203.0	7.660		0.209		0.375	7.607	0.189	474.74		0.102	0.082	190,000	136,200	
RST-0825	8.250	8-1/4	209.8	7.900		0.209		0.375	7.845	0.189	489.54		0.100	0.080	195,940	144,590	
RST-0850	8.500	8-1/2	215.7	8.140		0.209		0.375	8.083	0.189	504.33		0.097	0.078	201,880	153,223	
RST-0875	8.750	8-3/4	222.2	8.383		0.209		0.375	8.321	0.189	519.10		0.096	0.077	207,820	160,800	
RST-0900	9.000	9	228.4	8.620		0.209		0.375	8.560	0.189	533.95		0.092	0.074	213,750	171,250	
RST-0925	9.250	9-1/4	235.0	8.860		0.209		0.375	8.798	0.189	548.73		0.090	0.072	219,690	180,640	
RST-0950	9.500	9-1/2	241.1	9.100		0.209		0.375	9.036	0.189	563.51		0.087	0.070	225,630	190,280	
RST-0975	9.750	9-3/4	248.0	9.338		0.209		0.375	9.273	0.189	578.22		0.084	0.068	231,570	201,140	
RST-1000	10.000	10	253.8	9.575		0.209		0.375	9.508	0.189	592.81		0.081	0.065	237,500	212,810	

* "F" ring thickness applies only to unplated rings. Add .001 To upper thickness tolerance for plated rings. Groove widths upper will accept plated rings without modification.

**See design information on page 5, ^see tolerance on page 6

The maximum groove bottom radius is .005" For rings 50 to 100 and .010" For rings 101 and larger.



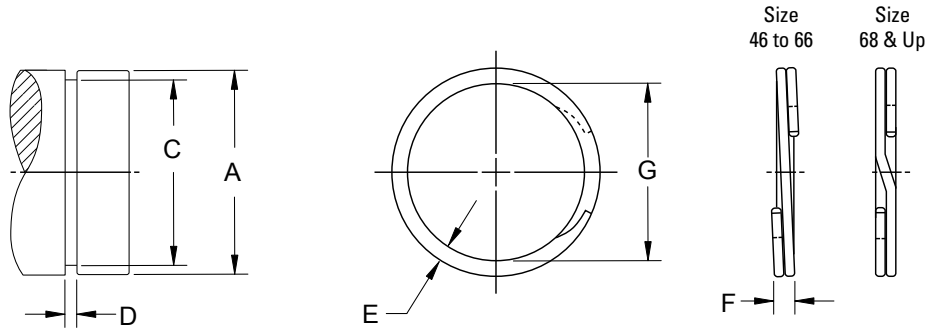
The Maximum Groove Bottom Radius is .005" for rings 50 to 100. .010" for rings 101 and larger

RING NO.	SHAFT DIAMETER			GROOVE SIZE				RING SIZE & WEIGHT					Maximum Corner		THRUST LOAD (PSI)		
	A DEC	A FRAC	A mm	DIAMETER		WIDTH		Radial Wall	FREE DIAMETER		THICKNESS*		Weight Per 1000 Pcs.	Radius	Chamfer	Based on Ring Shear	Based on Groove Yield
				C	Tol.	D	Tol.	E^	G	Tol.	F	Tol.					
RSN-0046	0.469	15/32	11.9	0.443	±.002	0.029	+.003 -.000	0.045	0.439	+.000 -.013	0.025	±.002	0.42	0.016	0.012	1,880	510
RSN-0050	0.500	1/2	12.7	0.468		0.039		0.050	0.464		0.035		0.71	0.017	0.012	2,530	440
RSN-0055	0.551		14.0	0.519		0.039		0.050	0.514		0.035		0.78	0.017	0.012	2,790	540
RSN-0056	0.562	9/16	14.3	0.530	0.039	0.050		0.525	0.035		0.80	0.017	0.012	2,840	560		
RSN-0059	0.594	19/32	15.1	0.559	0.039	0.050		0.554	0.035		0.85	0.016	0.012	3,000	700		
RSN-0062	0.625	5/8	15.9	0.588	0.039	0.055		0.583	0.035		0.99	0.018	0.013	3,160	820		
RSN-0066	0.669		17.0	0.629	0.039	0.055		0.623	0.035		1.06	0.017	0.012	3,380	1,070		
RSN-0068	0.688	11/16	17.5	0.646	0.046	0.065		0.641	0.042		1.53	0.022	0.016	4,170	960		
RSN-0075	0.750	3/4	19.0	0.704	0.046	0.065		0.698	0.042		1.66	0.021	0.015	4,550	1,250		
RSN-0078	0.781	25/32	19.8	0.733	0.046	0.065		0.727	0.042		1.73	0.020	0.015	4,740	1,430		
RSN-0081	0.812	13/16	20.6	0.762	0.046	0.065	0.756	0.042	1.80	0.020	0.015	4,930	1,620				
RSN-0087	0.875	7/8	22.2	0.821	0.046	0.075	0.814	0.042	2.24	0.024	0.018	5,310	2,000				
RSN-0093	0.938	15/16	23.8	0.882	0.046	0.075	0.875	0.042	2.41	0.023	0.017	5,690	2,440				
RSN-0098	0.984		25.0	0.926	0.046	0.085	0.919	0.042	2.89	0.028	0.021	5,970	2,790				
RSN-0100	1.000	1	25.4	0.940	0.046	0.085	0.932	0.042	2.93	0.027	0.020	6,070	2,950				
RSN-0102	1.023		26.0	0.961	0.046	0.085	0.953	0.042	2.99	0.027	0.020	6,210	3,170				
RSN-0106	1.062	1-1/16	27.0	0.998	0.056	0.103	0.986	0.050	4.58	0.035	0.026	7,010	2,810				
RSN-0112	1.125	1-1/8	29.0	1.059	0.056	0.103	1.047	0.050	4.85	0.035	0.026	7,420	2,890				
RSN-0118	1.188	1-3/16	30.2	1.118	0.056	0.103	1.105	0.050	5.11	0.034	0.025	7,840	3,450				
RSN-0125	1.250	1-1/4	31.7	1.176	0.056	0.103	1.163	0.050	5.36	0.033	0.024	8,250	4,110				
RSN-0131	1.312	1-5/16	33.3	1.232	0.056	0.118	1.218	0.050	6.50	0.039	0.029	8,650	4,810				
RSN-0137	1.375	1-3/8	34.9	1.291	0.056	0.118	1.277	0.050	6.79	0.038	0.028	9,070	5,650				
RSN-0143	1.438	1-7/16	36.5	1.350	0.056	0.118	1.336	0.050	7.04	0.037	0.027	9,490	6,340				
RSN-0150	1.500	1-1/2	38.1	1.406	0.056	0.118	1.385	0.050	7.29	0.035	0.026	9,900	7,060				
RSN-0156	1.562	1-9/16	39.6	1.468	0.068	0.128	1.453	0.062	10.41	0.040	0.030	12,780	6,600				
RSN-0162	1.625	1-5/8	41.7	1.529	0.068	0.128	1.513	0.062	10.82	0.040	0.030	13,290	7,330				
RSN-0168	1.687	1-11/16	42.8	1.589	0.068	0.128	1.573	0.062	11.23	0.039	0.029	13,800	8,190				
RSN-0175	1.750	1-3/4	44.4	1.650	0.068	0.128	1.633	0.062	11.64	0.039	0.029	14,320	8,760				
RSN-0177	1.771		44.9	1.669	0.068	0.128	1.651	0.062	11.77	0.038	0.028	14,490	9,040				
RSN-0181	1.812	1-13/16	46.0	1.708	0.068	0.128	1.690	0.062	12.03	0.038	0.028	14,820	9,440				
RSN-0187	1.875	1-7/8	47.6	1.769	0.068	0.158	1.751	0.062	15.62	0.052	0.039	15,340	9,950				
RSN-0196	1.969	1-31/32	50.0	1.857	0.068	0.158	1.838	0.062	16.36	0.051	0.038	16,110	11,040				
RSN-0200	2.000	2	50.8	1.886	0.068	0.158	1.867	0.062	16.60	0.050	0.037	16,360	11,420				
RSN-0206	2.062	2-1/16	52.3	1.946	0.086	0.168	1.932	0.078	23.10	0.055	0.041	21,220	11,820				
RSN-0212	2.125	2-1/8	53.9	2.003	0.086	0.168	1.989	0.078	23.74	0.053	0.039	21,870	12,980				
RSN-0215	2.156	2-5/32	54.7	2.032	0.086	0.168	2.018	0.078	24.07	0.053	0.039	22,190	13,390				

* "F" ring thickness applies only to unplated rings. Add .001 To upper thickness tolerance for plated rings. Groove widths upper will accept plated rings without modification.

**See design information on page 5, ^see tolerance on page 6

The maximum groove bottom radius is .005" For rings 50 to 100 and .010" For rings 101 and larger.

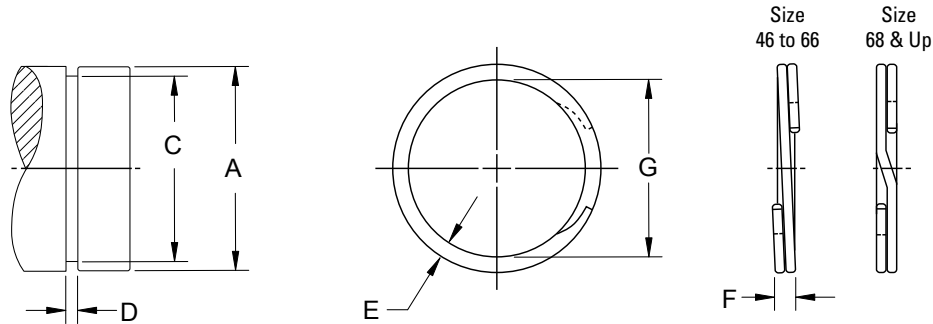


The Maximum Groove Bottom Radius is .005" for rings 50 to 100. .010" for rings 101 and larger

RING NO.	SHAFT DIAMETER			GROOVE SIZE				RING SIZE & WEIGHT					Maximum Corner		THRUST LOAD (PSI)		
	A DEC	A FRAC	A mm	DIAMETER		WIDTH		Radial Wall	FREE DIAMETER		THICKNESS*		Weight Per 1000 Pcs.	Radius	Chamfer	Based on Ring Shear	Based on Groove Yield
				C	Tol.	D	Tol.		E^	G	Tol.	F					
RSN-0225	2.250	2-1/4	57.1	2.120		0.086		0.168	2.105		0.078		25.06	0.051	0.038	23,160	14,650
RSN-0231	2.312	2-5/16	58.7	2.178		0.086		0.168	2.163		0.078		25.72	0.050	0.037	23,790	15,510
RSN-0237	2.375	2-3/8	60.3	2.239		0.086		0.200	2.223		0.078		31.86	0.066	0.049	24,440	16,170
RSN-0243	2.437	2-7/16	61.9	2.299		0.086		0.200	2.283		0.078		32.67	0.065	0.048	25,080	16,840
RSN-0250	2.500	2-1/2	63.5	2.360		0.086		0.200	2.343	+0.000	0.078		33.49	0.065	0.048	25,730	17,530
RSN-0255	2.559		64.9	2.419		0.086		0.200	2.402		0.078		34.28	0.065	0.048	26,340	17,940
RSN-0262	2.625	2-5/8	66.6	2.481		0.086		0.200	2.464		0.078		35.12	0.064	0.048	27,020	18,930
RSN-0268	2.687	2-11/16	68.2	2.541		0.086		0.200	2.523		0.078		35.92	0.063	0.047	27,650	19,640
RSN-0275	2.750	2-3/4	69.8	2.602		0.103		0.225	2.584		0.093		49.13	0.075	0.056	32,140	20,380
RSN-0287	2.875	2-7/8	73.0	2.721		0.103		0.225	2.702		0.093		51.25	0.074	0.055	33,600	22,170
RSN-0293	2.937	2-15/16	74.5	2.779		0.103		0.225	2.760		0.093		52.30	0.073	0.054	34,320	23,240
RSN-0300	3.000	3	76.1	2.838		0.103		0.225	2.818		0.093		53.34	0.072	0.054	35,060	24,340
RSN-0306	3.062	3-1/16	77.7	2.898		0.103		0.225	2.878	+0.000	0.093		54.42	0.071	0.053	35,780	25,140
RSN-0312	3.125	3-1/8	79.3	2.957		0.103		0.225	2.936	-0.030	0.093		55.47	0.070	0.052	36,520	26,290
RSN-0315	3.156	3-5/32	80.1	2.986		0.103		0.225	2.965		0.093		55.99	0.070	0.052	36,880	26,860
RSN-0325	3.250	3-1/4	82.5	3.076	±0.006	0.103	+0.005	0.225	3.054	-0.000	0.093	±0.003	57.59	0.069	0.051	37,980	28,320
RSN-0334	3.344		84.9	3.166		0.103		0.225	3.144		0.093		59.20	0.067	0.050	39,080	29,800
RSN-0343	3.437	3-7/16	87.2	3.257		0.103		0.225	3.234		0.093		60.83	0.067	0.050	40,170	30,980
RSN-0350	3.500	3-1/2	88.8	3.316		0.120		0.270	3.293		0.111		90.30	0.089	0.066	48,820	32,250
RSN-0354	3.543		89.9	3.357		0.120		0.270	3.333		0.111		91.08	0.088	0.066	49,420	33,000
RSN-0362	3.625	3-5/8	92.0	3.435		0.120		0.270	3.411		0.111		93.10	0.087	0.065	50,560	34,490
RSN-0368	3.687	3-11/16	93.6	3.493		0.120		0.270	3.469		0.111		94.60	0.086	0.064	51,430	35,820
RSN-0375	3.750	3-3/4	95.2	3.552		0.120		0.270	3.527		0.111		96.10	0.085	0.063	52,310	37,180
RSN-0387	3.875	3-7/8	98.3	3.673		0.120		0.270	3.647		0.111		99.22	0.084	0.063	54,050	39,190
RSN-0393	3.938	3-15/16	99.9	3.734		0.120		0.270	3.708	+0.000	0.111		100.80	0.084	0.063	54,930	40,230
RSN-0400	4.000	4	101.5	3.792		0.120		0.270	3.765	-0.035	0.111		102.28	0.083	0.062	55,790	41,660
RSN-0425	4.250	4-1/4	107.9	4.065		0.120		0.270	4.037		0.111		109.33	0.089	0.066	59,280	39,370
RSN-0437	4.375	4-3/8	111.0	4.190		0.120		0.270	4.161		0.111		112.54	0.089	0.066	61,020	40,530
RSN-0450	4.500	4-1/2	114.2	4.310		0.120		0.270	4.280		0.111		115.63	0.087	0.065	62,770	42,810
RSN-0475	4.750	4-3/4	120.6	4.550		0.120		0.270	4.518		0.111		121.80	0.085	0.063	66,260	47,570
RSN-0500	5.000	5	126.9	4.790		0.120		0.270	4.756		0.111		127.19	0.082	0.061	69,740	52,580
RSN-0525	5.250	5-1/4	133.2	5.030		0.139		0.350	4.995		0.127		201.62	0.120	0.090	83,790	57,830
RSN-0550	5.500	5-1/2	140.0	5.265	±0.007	0.139	+0.006	0.350	5.228	+0.000	0.127	±0.004	210.60	0.116	0.087	87,780	64,720
RSN-0575	5.750	5-3/4	145.9	5.505		0.139	-0.000	0.350	5.466	-0.050	0.127		219.79	0.114	0.085	91,770	70,540
RSN-0600	6.000	6	152.3	5.745		0.139		0.350	5.705		0.127		229.01	0.111	0.083	95,760	76,610
RSN-0625	6.250	6-1/4	158.6	5.985		0.174		0.418	5.938		0.156		352.26	0.143	0.107	122,520	82,930

* "F" ring thickness applies only to unplated rings. Add .001 To upper thickness tolerance for plated rings. Groove widths upper will accept plated rings without modification.

**See design information on page 5, ^see tolerance on page 6
The maximum groove bottom radius is .005" For rings 50 to 100 and .010" For rings 101 and larger.



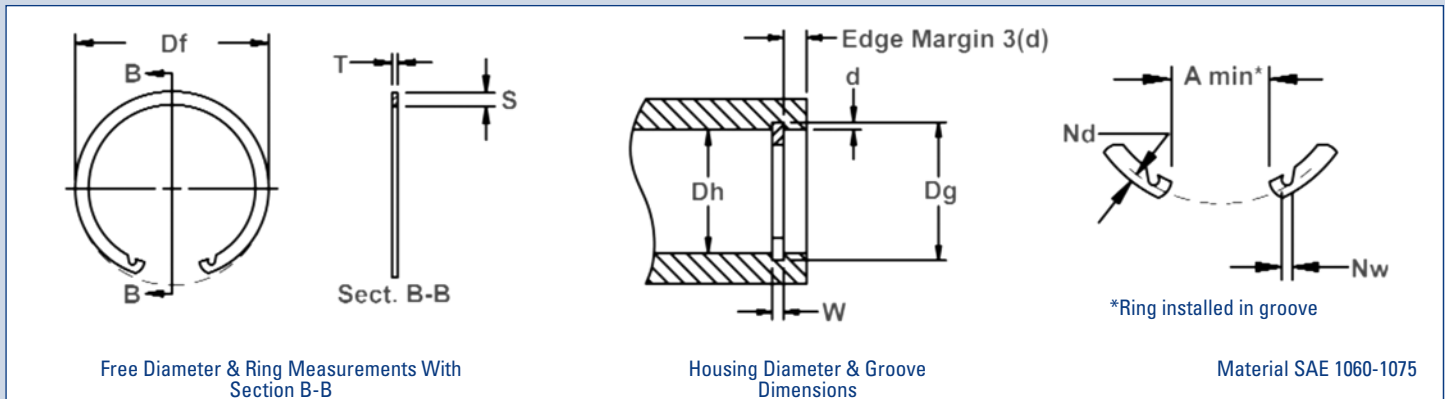
The Maximum Groove Bottom Radius is .005" for rings 50 to 100. .010 for rings 101 and larger

RING NO.	SHAFT DIAMETER			GROOVE SIZE				RING SIZE & WEIGHT					Maximum Corner		THRUST LOAD (PSI)		
	A DEC	A FRAC	A mm	DIAMETER		WIDTH		Radial Wall	FREE DIAMETER		THICKNESS*		Weight Per 1000 Pcs.	Radius	Chamfer	Based on Ring Shear	Based on Groove Yield
				C	Tol.	D	Tol.		E [^]	G	Tol.	F					
RSN-0650	6.500	6-1/2	165.0	6.225	±.008	0.174		0.418	6.181	+.000 -.060	0.156	365.99	0.140	0.105	127,420	89,510	
RSN-0675	6.750	6-3/4	171.3	6.465		0.174		0.418	6.410		0.156		378.95	0.138	0.103	132,320	96,330
RSN-0700	7.000	7	177.7	6.705		0.174		0.418	6.648		0.156		392.37	0.135	0.101	137,220	103,400
RSN-0725	7.250	7-1/4	184.0	6.942		0.174		0.418	6.891	0.156	424.52		0.173	0.130	142,130	111,810	
RSN-0750	7.500	7-1/2	190.4	7.180		0.209		0.437	7.130	0.187	530.98		0.170	0.127	176,240	120,170	
RSN-0775	7.750	7-3/4	196.8	7.420		0.209		0.437	7.368	0.187	547.99		0.167	0.125	182,120	128,060	
RSN-0800	8.000	8	203.0	7.660		0.209		0.437	7.606	0.187	564.99		0.165	0.123	187,990	136,200	
RSN-0825	8.250	8-1/4	209.8	7.900		0.209		0.437	7.845	0.187	582.08		0.162	0.121	193,870	144,590	
RSN-0850	8.500	8-1/2	215.7	8.140		0.209		0.437	8.083	0.187	599.09		0.160	0.120	199,740	153,220	
RSN-0875	8.750	8-3/4	222.2	8.383		0.209		0.437	8.324	0.187	616.33		0.159	0.119	205,620	160,800	
RSN-0900	9.000	9	228.4	8.620	0.209	0.500	8.560	0.187	729.66	0.155	0.116	211,490	171,250				
RSN-0925	9.250	9-1/4	235.0	8.860	0.209	0.500	8.798	0.187	749.11	0.152	0.114	217,370	180,640				
RSN-0950	9.500	9-1/2	241.1	9.100	0.209	0.500	9.036	0.187	768.57	0.150	0.112	223,240	190,280				
RSN-0975	9.750	9-3/4	248.0	9.338	0.209	0.500	9.275	0.187	788.14	0.147	0.110	229,120	201,140				
RSN-1000	10.000	10	253.8	9.575	0.209	0.500	9.508	0.187	807.19	0.144	0.108	234,990	212,810				
RSN-1025	10.250	10-1/4	260.4	9.814	0.209	0.500	9.745	0.187	820.02	0.141	0.106	240,870	223,780				
RSN-1050	10.500	10-1/2	266.7	10.054	0.209	0.500	9.984	0.187	839.59	0.138	0.104	246,740	234,490				
RSN-1075	10.750	10-3/4	273.1	10.293	0.209	+.008 -.000	10.221	0.187	858.97	0.136	0.102	252,620	246,000				
RSN-1100	11.000	11	279.4	10.533	0.209	0.500	10.459	0.187	885.79	0.131	0.098	258,490	257,230				
RSN-1125	11.250	11-1/4	285.8	10.772	0.209	0.500	10.692	0.187	897.47	0.130	0.098	264,360	269,270				
RSN-1150	11.500	11-1/2	292.1	11.011	±.010	0.209	10.934	0.187	1036.74	0.159	0.119	270,240	281,590				
RSN-1175	11.750	11-3/4	298.5	11.250	0.209	0.562	11.171	0.187	1058.52	0.156	0.117	276,120	294,180				
RSN-1200	12.000	12	304.8	11.490	0.209	0.562	11.410	0.187	1080.48	0.153	0.115	281,990	306,450				
RSN-1225	12.250	12-1/4	311.2	11.729	0.209	0.562	11.647	0.187	1102.29	0.151	0.113	287,860	319,580				
RSN-1250	12.500	12-1/2	317.5	11.969	0.209	0.562	11.885	0.187	1124.20	0.148	0.111	293,740	332,360				
RSN-1275	12.750	12-3/4	323.9	12.208	0.209	0.562	12.124	0.187	1142.44	0.145	0.109	299,610	346,030				
RSN-1300	13.000	13	330.2	12.448	0.209	0.662	12.361	0.187	1382.25	0.193	0.145	305,490	359,330				
RSN-1325	13.250	13-1/4	336.6	12.687	0.209	0.662	12.598	0.187	1407.94	0.190	0.143	311,360	373,530				
RSN-1350	13.500	13-1/2	342.9	12.927	0.209	0.662	12.837	0.187	1433.79	0.188	0.141	317,240	387,340				
RSN-1375	13.750	13-3/4	349.3	13.166	0.209	0.662	13.074	0.187	1459.45	0.185	0.139	323,110	402,090				
RSN-1400	14.000	14	355.6	13.405	±.012	0.209	13.311	0.187	1485.12	0.182	0.137	328,990	417,110				
RSN-1425	14.250	14-1/4	362.0	13.644	0.209	0.662	13.548	0.187	1510.81	0.179	0.135	334,860	432,410				
RSN-1450	14.500	14-1/2	368.3	13.884	0.209	0.750	13.787	0.187	1751.77	0.221	0.166	340,740	447,250				
RSN-1475	14.750	14-3/4	374.7	14.123	0.209	0.750	14.024	0.187	1780.84	0.218	0.164	346,610	463,090				
RSN-1500	15.000	15	381.0	14.363	0.209	0.750	14.262	0.187	1810.04	0.216	0.162	352,490	478,450				

* "F" ring thickness applies only to unplated rings. Add .001 To upper thickness tolerance for plated rings. Groove widths upper will accept plated rings without modification.

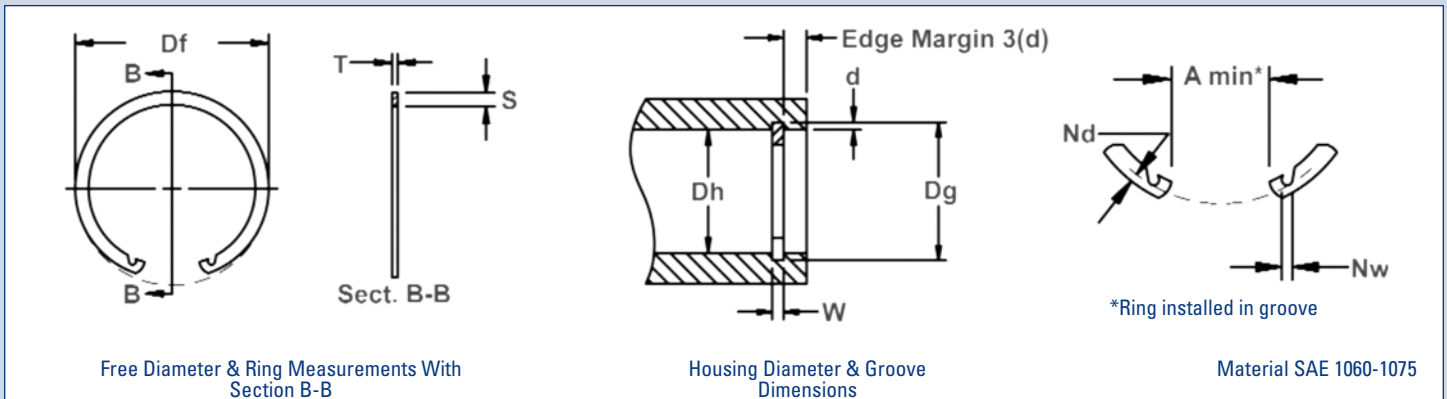
**See design information on page 5, ^see tolerance on page 6
The maximum groove bottom radius is .005" For rings 50 to 100 and .010" For rings 101 and larger.

ONCE INSTALLED IN THE GROOVE OF A HOUSING/BORE, THE SHOULDER HOLDS AN ASSEMBLY IN PLACE.



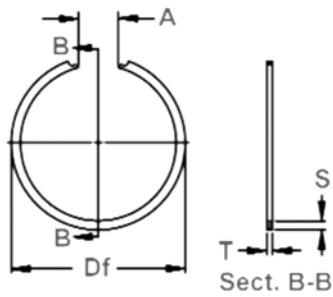
Ring No.	Housing Diameter			Groove Size			Ring Dimensions					Notch Dimensions		Thrust Load (lbf)
				Groove Diameter		Groove Width	Free ID	Ring Thickness	Max. Sec.	Gap	Depth	Width		
	Dh DEC	Dh FRACT	Dh DEC	Dg	tol.	W	Df						tol.	
IN-0175	1.750	1-3/4	44.45	1.858	+/- .005	.068 +.004 -.000	1.878	+/- .070	0.062	0.156	0.370	0.078	0.093	4100
IN-0181	1.812	1-13/16	46.02	1.922			1.942		0.062	0.156				4280
IN-0185	1.850		47.00	1.962			1.982		0.062	0.156				4380
IN-0187	1.875	1-7/8	47.63	1.989			2.014		0.062	0.156				4650
IN-0193	1.938	1-15/16	49.20	2.056			2.081		0.062	0.156				5000
IN-0200	2.000	2	50.80	2.122			2.147		0.062	0.156				5350
IN-0206	2.047	2-3/64	52.00	2.171			2.201		0.078	0.171	6490			
IN-0206	2.062	2-1/16	52.37	2.186			2.201		0.078	0.171	6490			
IN-0212	2.125	2-1/8	53.98	2.251			2.271		0.078	0.171	6810			
IN-0218	2.165		55.00	2.295			2.338		0.078	0.171	7240			
IN-0218	2.188	2-3/16	55.55	2.318			2.338		0.078	0.171	7240			
IN-0225	2.250	2-1/4	57.15	2.382			2.402		0.078	0.171	7560			
IN-0231	2.312	2-5/16	58.72	2.450	2.470	0.078	0.171	8120						
IN-0237	2.375	2-3/8	60.33	2.517	2.537	0.078	0.188	8580						
IN-0244	2.440		61.98	2.584	2.604	0.078	0.188	8940						
IN-0250	2.500	2-1/2	63.50	2.648	2.673	0.078	0.188	9410						
IN-0253	2.531	2-17/32	64.29	2.681	2.706	0.093	0.188	9660						
IN-0256	2.562	2-9/16	65.07	2.714	2.739	0.093	0.188	9910						
IN-0262	2.625	2-5/8	66.68	2.781	2.806	0.093	0.188	10420						
IN-0268	2.677		68.00	2.837	2.868	0.093	0.188	10900						
IN-0268	2.688	2-11/16	68.25	2.848	2.868	0.093	0.188	10900						
IN-0275	2.750	2-3/4	69.85	2.914	2.944	0.093	0.188	11470						
IN-0281	2.812	2-13/16	71.42	2.980	3.025	0.093	0.188	12200						
IN-0281	2.835		72.00	3.005	3.025	0.093	0.188	12200						
IN-0287	2.875	2-7/8	73.03	3.051	3.086	0.093	0.203	12870						
IN-0295	2.953		75.00	3.135	3.175	0.093	0.203	13480						
IN-0300	3.000	3	76.20	3.182	3.222	0.093	0.203	13890						
IN-0306	3.062	3-1/16	77.77	3.248	3.288	0.109	0.218	14490						
IN-0312	3.125	3-1/8	79.38	3.315	3.353	0.109	0.218	15110						
IN-0315	3.149		79.98	3.341	3.388	0.109	0.218	15420						
IN-0315	3.156	3-5/32	80.16	3.348	3.388	0.109	0.218	15420						
IN-0325	3.250	3-1/4	82.55	3.446	3.488	0.109	0.218	16210						
IN-0334	3.346	3-11/32	84.99	3.546	3.590	0.109	0.218	17030						
IN-0347	3.469	3-15/32	88.11	3.675	3.721	0.109	0.218	18190						
IN-0350	3.500	3-1/2	88.90	3.710	3.760	0.109	0.234	18700						
IN-0354	3.543		90.00	3.755	3.805	0.109	0.234	19400						

ONCE INSTALLED IN THE GROOVE OF A HOUSING/BORE, THE SHOULDER HOLDS AN ASSEMBLY IN PLACE.

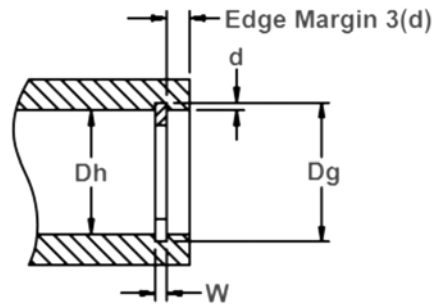


Ring No.	Housing Diameter			Groove Size			Ring Dimensions					Notch Dimensions		Thrust Load (lbf)		
				Groove Diameter		Groove	Free ID	Ring	Max. Sec.	Gap	Depth	Width				
	Dh DEC	Dh FRACT	Dh DEC	Dg	tol.	W	Df						tol.		T (+/- .002)	S ref. (+/- .005)
IN-0375	3.740		95.00	3.964	+/- .006	.120 +.005 -.000	4.030	+100/- .000	0.109	0.250	0.740	0.125	0.125	21380		
IN-0375	3.750	3-3/4	95.25	3.974					4.030	0.109	0.250				0.780	21380
IN-0387	3.875	3-7/8	98.43	4.107					4.165	0.109	0.250				22880	
IN-0393	3.938	3-15/16	100.00	4.174					4.234	0.109	0.250				23650	
IN-0400	4.000	4	101.60	4.240					4.300	0.109	0.250				24430	
IN-0412	4.125	4-1/8	104.78	4.365					4.430	0.109	0.250				25190	
IN-0425	4.250	4-1/4	107.95	4.490					4.555	0.109	0.250				25960	
IN-0433	4.331		110.00	4.571					4.641	0.109	0.250				26450	
IN-0450	4.500	4-1/2	114.30	4.740					4.815	0.109	0.281				27490	
IN-0462	4.625	4-5/8	117.48	4.865					4.940	0.109	0.281				0.840	28250
IN-0475	4.724		120.00	4.969					5.070	0.109	0.281				0.910	29000
IN-0475	4.750	4-3/4	120.65	4.995					5.070	0.109	0.281				0.930	29000
IN-0500	5.000	5	127.00	5.260					5.340	0.109	0.281				0.930	33100
IN-0525	5.250	5-1/4	133.35	5.520					5.600	0.125	0.312				36070	
IN-0537	5.375	5-3/8	136.53	5.650					5.735	0.125	0.312				36930	
IN-0550	5.500	5-1/2	139.70	5.770					5.860	0.125	0.312				1.000	37790
IN-0575	5.750	5-3/4	146.05	6.020	6.120	0.125	0.312	39500								
IN-0600	6.000	6	152.40	6.270	6.380	0.125	0.312	41220								
IN-0625	6.250	6-1/4	158.75	6.530	6.640	0.156	0.343	1.030	44530							
IN-0650	6.500	6-1/2	165.10	6.790	6.905	0.156	0.343	1.090	47970							
IN-0662	6.625	6-5/8	168.28	6.925	7.045	0.156	0.343	1.120	50580							
IN-0675	6.750	6-3/4	171.45	7.055	7.180	0.156	0.343	1.130	52220							
IN-0700	7.000	7	177.80	7.315	7.445	0.156	0.343	1.140	55930							
IN-0725	7.250	7-1/4	184.15	7.575	7.705	0.187	0.375	1.140	59700							
IN-0750	7.500	7-1/2	190.50	7.840	7.975	0.187	0.375	1.150	64900							
IN-0775	7.750	7-3/4	196.85	8.100	8.240	0.187	0.375	1.160	68700							
IN-0800	8.000	8	203.20	8.360	8.505	0.187	0.437	1.200	72900							
IN-0825	8.250	8-1/4	209.55	8.620	8.770	0.187	0.437	1.230	77600							
IN-0850	8.500	8-1/2	215.90	8.880	9.035	0.187	0.437	1.270	81800							
IN-0875	8.750	8-3/4	222.25	9.144	9.305	0.187	0.437	1.320	87300							
IN-0900	9.000	9	228.60	9.404	9.564	0.187	0.437	1.370	92400							
IN-0925	9.250	9-1/4	234.95	9.668	9.833	0.187	0.500	1.400	98000							
IN-0950	9.500	9-1/2	241.30	9.930	10.100	0.187	0.500	1.500	103900							
IN-0975	9.750	9-3/4	247.65	10.190	10.365	0.187	0.500	1.620	109000							
IN-1000	10.000	10	254.00	10.450	10.630	0.187	0.500	1.750	114600							

ONCE INSTALLED IN THE GROOVE OF A HOUSING/BORE, THE SHOULDER HOLDS AN ASSEMBLY IN PLACE.



Free Diameter & Ring Measurement with Section B-B

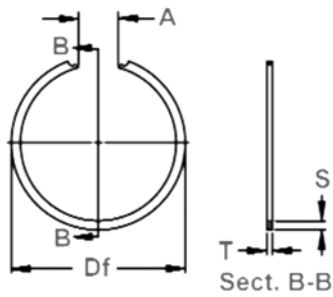


Housing Diameter and Groove Dimensions

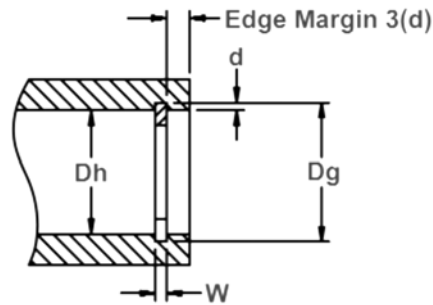
Material SAE 1060-1075

Ring No.	Housing Diameter			Groove Size			Ring Dimensions					Thrust Capacity (lbf)		
				Groove Diameter		W	Free Diameter		Ring T (+/- .002)	Max. Sec. S ref.	Free Gap A			
	Ds DEC	Ds FRACT	Ds mm	Dg	tol.		Df	tol.			min		max	
NAN-0037	0.375	3/8	9.53	0.395	+/- .003	0.028	0.400	+0.020/- .000	0.025	0.035	0.125	0.218	250	
NAN-0043	0.438	7/16	11.12	0.462		0.028	0.467		0.025	0.035				
NAN-0050	0.500	1/2	12.70	0.524		0.039	0.530		+0.025/- .000	0.035	0.040	0.187	0.344	470
NAN-0051	0.512		13.00	0.536		0.039	0.542			0.035	0.040			
NAN-0056	0.562	9/16	14.27	0.590		0.039	0.600			0.035	0.048			
NAN-0062	0.625	5/8	15.88	0.657		0.039	0.670			0.035	0.048			
NAN-0068	0.688	11/16	17.48	0.720		0.039	0.733			0.035	0.048			
NAN-0075	0.750	3/4	19.05	0.786		0.039	0.799			0.035	0.048			
NAN-0077	0.777		19.74	0.813		0.046	0.827			0.042	0.062			
NAN-0081	0.812	13/16	20.62	0.852		0.046	0.867			0.042	0.062			
NAN-0087	0.875	7/8	22.23	0.919	0.046	0.934	0.042	0.062		0.281	0.438			1130
NAN-0090	0.901		22.88	0.945	0.046	0.961	0.042	0.078						1260
NAN-0093	0.938	15/16	23.82	0.986	0.046	1.003	0.042	0.078	1360					
NAN-0100	1.000	1	25.40	1.052	0.046	1.070	0.042	0.078	1470					
NAN-0102	1.023		25.98	1.075	0.046	1.094	0.042	0.093	1500					
NAN-0106	1.062	1-1/16	26.97	1.114	0.056	1.134	0.050	0.093	1780					
NAN-0112	1.125	1-1/8	28.58	1.181	0.056	1.202	0.050	0.093	1880					
NAN-0118	1.188	1-3/16	30.17	1.248	0.056	1.270	0.050	0.093	1990					
NAN-0125	1.250	1-1/4	31.75	1.314	0.056	1.337	0.050	0.109	2090					
NAN-0131	1.312	1-5/16	33.32	1.380	0.056	1.404	0.050	0.109	2200					
NAN-0137	1.375	1-3/8	34.93	1.447	0.056	1.472	0.050	0.109	2300					
NAN-0143	1.438	1-7/16	36.52	1.510	0.056	1.535	0.050	0.125	2460					
NAN-0145	1.456		36.98	1.532	0.056	1.557	0.050	0.125	2490					
NAN-0150	1.500	1-1/2	38.10	1.576	0.056	1.607	0.050	0.125	2560					
NAN-0156	1.562	1-9/16	39.67	1.642	+/- .005	0.068	1.668	0.062	0.125	0.437	0.687	3060		
NAN-0162	1.625	1-5/8	41.28	1.709		0.068	1.736	0.062	0.141			3190		
NAN-0165	1.653		41.99	1.737		0.068	1.765	0.062	0.141			3240		
NAN-0168	1.688	1-11/16	42.87	1.776		0.068	1.804	0.062	0.156			3370		
NAN-0175	1.750	1-3/4	44.45	1.842		0.068	1.870	0.062	0.156			3510		
NAN-0181	1.812	1-13/16	46.02	1.904		0.068	1.933	0.062	0.156			3640		
NAN-0185	1.850		47.00	1.946		0.068	1.975	0.062	0.156			3710		
NAN-0187	1.875	1-7/8	47.63	1.971		0.068	2.000	0.062	0.156			3760		
NAN-0193	1.938	1-15/16	49.22	2.038		0.068	2.068	0.062	0.156			3870		
NAN-0196	1.968	1-31/32	49.99	2.068		0.068	2.098	0.062	0.156			3935		
NAN-0200	2.000	2 in	50.80	2.100	0.068	2.131	0.062	0.156	4000					
NAN-0206	2.062	2-1/16	52.37	2.166	+/- .006	0.086	2.197	0.062	0.156	0.500	0.750	4380		
NAN-0212	2.125	2-1/8	53.98	2.229		0.086	2.260	0.078	0.156			5140		

ONCE INSTALLED IN THE GROOVE OF A HOUSING/BORE, THE SHOULDER HOLDS AN ASSEMBLY IN PLACE.



Free Diameter & Ring Measurement with Section B-B

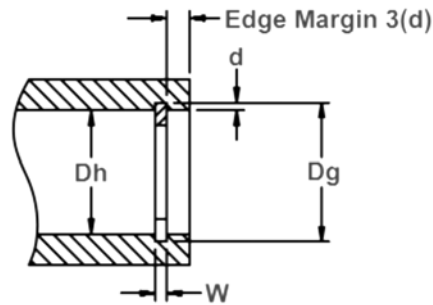
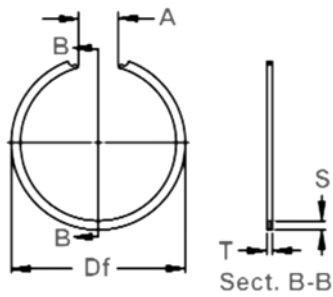


Housing Diameter and Groove Dimensions

Material SAE 1060-1075

Ring No.	Housing Diameter			Groove Size			Ring Dimensions					Thrust Capacity (lbf)	
				Groove Diameter		W	Free Diameter		Ring T (+/- .002)	Max. Sec. S ref.	Free Gap A		
	Ds DEC	Ds FRACT	Ds mm	Dg	tol.		Df	tol.			min		max
NAN-0244	2.440		61.98	2.556	+/- .006	0.086	2.592	+.046/- .000	0.078	0.187	0.500	0.750	6270
NAN-0250	2.500	2-1/2	63.50	2.616		0.086	2.653		0.078	0.187			6350
NAN-0253	2.531	2-17/32	64.28	2.651		0.086	2.688		0.078	0.187			6510
NAN-0256	2.562	2-9/16	65.07	2.686		0.103	2.726		0.093	0.187	8400		
NAN-0262	2.625	2-5/8	66.67	2.750		0.103	2.790		0.093	0.187	8650		
NAN-0268	2.688	2-11/16	68.27	2.816		0.103	2.856		0.093	0.187	8800		
NAN-0271	2.717		68.83	2.842		0.103	2.882	0.093	0.187	8875			
NAN-0275	2.750	2-3/4	69.85	2.878		0.103	2.918	0.093	0.187	8950			
NAN-0281	2.813	2-13/16	71.45	2.945		0.103	2.985	0.093	0.187	9100			
NAN-0283	2.834		72.00	2.966		0.103	3.006	0.093	0.187	9250			
NAN-0287	2.875	2-7/8	73.00	3.011		0.103	3.056	0.093	0.187	9400			
NAN-0300	3.000	3	76.20	3.136		0.103	3.181	0.093	0.187	9550			
NAN-0306	3.062	3-3/16	77.78	3.202		0.120	3.247	0.109	0.218	10470			
NAN-0312	3.125	3-1/8	79.38	3.265		0.120	3.311	0.109	0.218	10690			
NAN-0315	3.156	3-5/32	80.16	3.296		0.120	3.342	0.109	0.218	10800			
NAN-0325	3.250	3-1/4	82.55	3.394		0.120	3.442	0.109	0.218	11120			
NAN-0334	3.346		85.00	3.490		0.120	3.539	0.109	0.218	11450			
NAN-0346	3.469	3-15/32	88.00	3.613		0.120	3.663	0.109	0.218	11870			
NAN-0350	3.500	3-1/2	88.90	3.648		0.120	3.700	0.109	0.250	11970			
NAN-0354	3.543		90.00	3.691		0.120	3.745	0.109	0.250	12120			
NAN-0356	3.562	3-9/16	90.47	3.710		0.120	3.766	0.109	0.250	12190			
NAN-0362	3.625	3-5/8	92.08	3.773		0.120	3.831	0.109	0.250	12380			
NAN-0375	3.750	3-3/4	95.25	3.902		0.120	3.962	0.109	0.250	12600			
NAN-0387	3.875	3-7/8	98.42	4.027		0.120	4.089	0.109	0.250	12820			
NAN-0393	3.938	3-15/16	100.00	4.094		0.120	4.156	0.109	0.250	13230			
NAN-0400	4.000	4	101.60	4.156		0.120	4.221	0.109	0.250	13690			
NAN-0412	4.125	4-1/8	104.77	4.285		0.120	4.355	0.109	0.250	14110			
NAN-0425	4.250	4-1/4	107.95	4.410		0.120	4.485	0.109	0.250	14540			
NAN-0433	4.330		110.00	4.490		0.120	4.565	0.109	0.250	14960			
NAN-0443	4.436	4-7/16	112.69	4.596		0.120	4.670	0.109	0.250	15170			
NAN-0450	4.500	4-1/2	114.30	4.664	0.120	4.744	0.109	0.250	15390				
NAN-0462	4.625	4-5/8	117.48	4.795	0.120	4.875	0.109	0.250	15830				
NAN-0475	4.750	4-3/4	120.65	4.926	0.120	5.011	0.109	0.281	16250				
NAN-0500	5.000	5	127.00	5.180	0.120	5.265	0.109	0.281	17110				

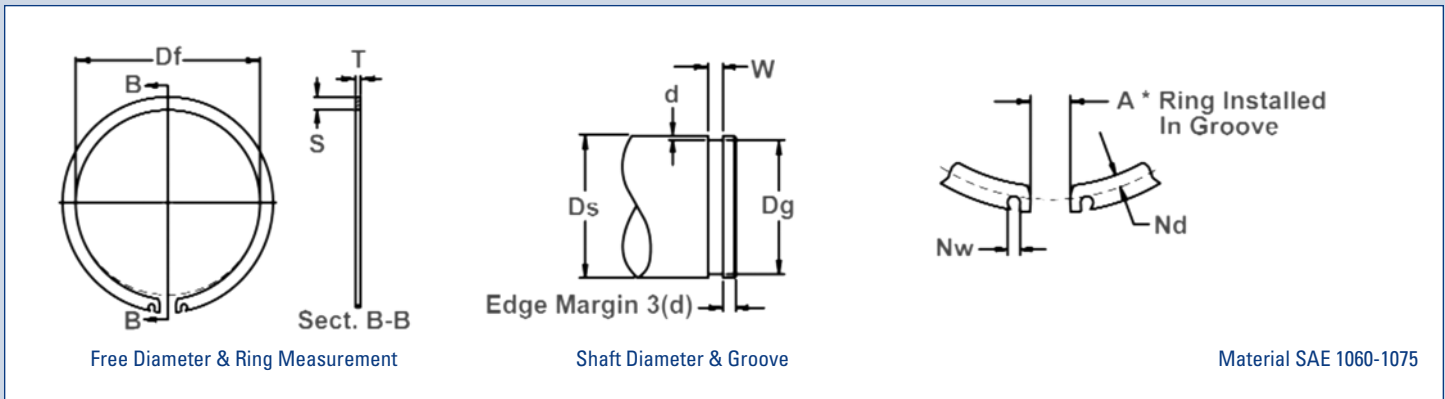
ONCE INSTALLED IN THE GROOVE OF A HOUSING/BORE, THE SHOULDER HOLDS AN ASSEMBLY IN PLACE.



Material SAE 1060-1075

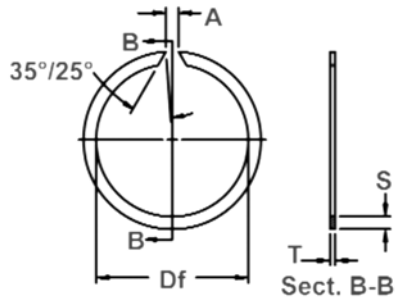
Ring No.	Housing Diameter			Groove Size			Ring Dimensions						Thrust Capacity (lbf)
				Groove Diameter		Groove W	Free Diameter		Ring T (+/- .002)	Max. Sec. S ref.	Free Gap A		
	Ds DEC	Ds FRACT	Ds mm	Dg	tol.		Df	tol.			min	max	
NAN-0525	5.250	5-1/4	133.35	5.435	+/- .007	0.139	5.530	+.125/- .000	0.125	0.312	1.000	1.500	20590
NAN-0537	5.375	5-3/8	136.53	5.565		0.139	5.660		0.125	0.312			21110
NAN-0550	5.500	5-1/2	140.00	5.696		0.139	5.796		0.125	0.312			21790
NAN-0575	5.750	5-3/4	146.05	5.950		0.139	6.050		0.125	0.312			22570
NAN-0600	6.000	6	152.40	6.204		0.139	6.309		0.125	0.312			23550
NAN-0625	6.250	6-1/4	158.75	6.458	+/- .008	0.174	6.568	+.156/- .000	0.156	0.343	1.125	1.812	29420
NAN-0650	6.500	6-1/2	165.00	6.712		0.174	6.832		0.156	0.343			30610
NAN-0662	6.625	6-5/8	168.27	6.845		0.174	6.975		0.156	0.343			31400
NAN-0675	6.750	6-3/4	171.45	6.970		0.174	7.100		0.156	0.343			32640
NAN-0700	7.000	7	177.80	7.220		0.174	7.350		0.156	0.343			34850
NAN-0725	7.250	7-1/4	184.15	7.500	+/- .008	0.209	7.630	+.187/- .000	0.187	0.375	1.375	2.250	38060
NAN-0750	7.500	7-1/2	190.50	7.750		0.209	7.890		0.187	0.375			39450
NAN-0800	8.000	8	203.20	8.250		0.209	8.400		0.187	0.375			41960
NAN-0825	8.250	8-1/4	209.55	8.540		0.209	8.665		0.187	0.437			43320
NAN-0850	8.500	8-1/2	215.90	8.790		0.209	8.915		0.187	0.437			44710
NAN-0875	8.750	8-3/4	222.25	9.080	+/- .008	0.209	9.205	+.187/- .000	0.187	0.500	1.625	2.500	48900
NAN-0900	9.000	9	228.60	9.330		0.209	9.455		0.187	0.500			49740
NAN-0905	9.055		230.00	9.384		0.209	9.509		0.187	0.500			50050
NAN-0950	9.500	9-1/2	241.30	9.830		0.209	9.955		0.187	0.500			52520
NAN-0984	9.840	9-27/32	250.00	10.170		0.209	10.295		0.187	0.500			53780
NAN-1000	10.000	10	254.00	10.330		0.209	10.455		0.187	0.500	1.750	2.625	55400

ONCE INSTALLED IN THE GROOVE OF A SHAFT, THE SHOULDER HOLDS AN ASSEMBLY IN PLACE.

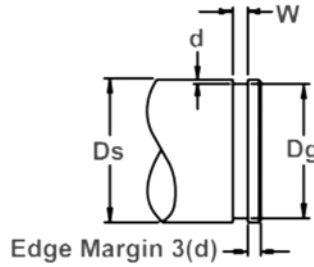


Ring No.	Shaft Diameter			Groove Size		Ring Dimensions					Notch Dimensions		Safe Working Thrust Load (lbf)	
				Diameter	Width	Free Diameter	Ring	Max. Sec.	Gap	Depth	Width			
	Ds DEC	Ds FRACT	Ds mm	Dg (+/- .006)	W (+.005/- .000)	Df	tol.	T (+/- .002)	S ref. (+/- .005)	A (+/- 1/16)	ND (+.000/- .030)	NW (ref.)		
EN-0206	2.062	2-1/16	52.37	1.946	0.086	1.926	+ .000/- .060	0.078	0.187	0.375	0.093	0.125	5400	
EN-0212	2.125	2-1/8	53.98	2.003	0.086	1.983		0.078	0.187	0.375	0.093	0.125	5530	
EN-0215	2.156	2-5/32	54.76	2.032	0.086	2.012		0.078	0.187	0.375	0.093	0.125	5680	
EN-0225	2.250	2-1/4	57.15	2.120	0.086	2.100		0.078	0.203	0.375	0.100	0.125	6200	
EN-0231	2.312	2-5/16	58.73	2.178	0.086	2.158		0.078	0.203	0.375	0.100	0.125	6580	
EN-0237	2.375	2-3/8	60.33	2.239	0.086	2.219		0.078	0.203	0.375	0.100	0.125	6870	
EN-0243	2.438	2-7/16	61.93	2.299	0.086	2.279		0.078	0.203	0.375	0.100	0.125	7130	
EN-0250	2.500	2-1/2	63.50	2.360	0.086	2.340		0.078	0.218	0.375	0.110	0.125	7430	
EN-0255	2.419		65.00	2.559	0.086	2.399		0.078	0.218	0.375	0.110	0.125	7590	
EN-0262	2.625	2-5/8	66.68	2.481	0.086	2.461		0.078	0.218	0.375	0.110	0.125	8020	
EN-0268	2.688	2-11/16	68.28	2.541	0.103	2.521		0.078	0.218	0.375	0.110	0.125	8320	
EN-0275	2.750	2-3/4	69.85	2.602	0.103	2.577		0.093	0.218	0.500	0.110	0.125	8650	
EN-0287	2.875	2-7/8	73.03	2.721	0.103	2.696		0.093	0.218	0.500	0.110	0.125	9330	
EN-0293	2.938	2-15/16	74.63	2.779	0.103	2.754		0.093	0.218	0.500	0.110	0.125	9840	
EN-0300	3.000	3	76.20	2.838	0.103	2.813		0.093	0.218	0.500	0.110	0.125	10310	
EN-0306	3.062	3-1/16	77.77	2.898	0.103	2.873		0.093	0.218	0.500	0.110	0.125	10530	
EN-0312	3.125	3-1/8	79.38	2.957	0.103	2.932	0.093	0.218	0.500	0.110	0.125	11170		
EN-0315	3.156	3-5/32	80.16	2.986	0.103	2.961	0.093	0.250	0.500	0.125	0.125	11370		
EN-0325	3.250	3-1/4	82.55	3.076	0.103	3.051	+ .000/- .080	0.093	0.250	0.500	0.125	0.125	12000	
EN-0334	3.346	3-11/32	85.00	3.166	0.103	3.141		0.093	0.250	0.500	0.125	0.125	12810	
EN-0343	3.438	3-7/16	87.33	3.257	0.103	3.232		0.093	0.250	0.500	0.125	0.125	13100	
EN-0350	3.500	3-1/2	88.90	3.316	0.120	3.286		0.109	0.250	0.500	0.125	0.125	13640	
EN-0354	3.543		90.00	3.357	0.120	3.327		0.109	0.250	0.500	0.125	0.125	14000	
EN-0362	3.620	3-5/8	92.08	3.435	0.120	3.405		0.109	0.250	0.500	0.125	0.125	14580	
EN-0368	3.688	3-11/16	93.68	3.493	0.120	3.463		0.109	0.250	0.500	0.125	0.125	14650	
EN-0375	3.750	3-3/4	95.25	3.552	0.120	3.522		0.109	0.281	0.562	0.150	0.125	15800	
EN-0387	3.875	3-7/8	98.43	3.673	0.120	3.643		0.109	0.281	0.562	0.150	0.125	16600	
EN-0393	3.938	3-15/14	100.03	3.734	0.120	3.704		0.109	0.281	0.562	0.150	0.125	17040	
EN-0400	4.000	4	101.60	3.792	0.120	3.762		0.109	0.281	0.562	0.150	0.125	17640	
EN-0425	4.250	4-1/4	107.95	4.065	0.120	4.025		0.109	0.281	0.625	0.150	0.125	16600	
EN-0437	4.375	4-3/8	111.13	4.190	0.120	4.150		+ .000/- .093	0.109	0.281	0.625	0.150	0.125	17100
EN-0450	4.500	4-1/2	114.30	4.310	0.120	4.270			0.109	0.312	0.625	0.180	0.125	18230
EN-0475	4.750	4-3/4	120.65	4.550	0.120	4.510			0.109	0.312	0.625	0.180	0.125	19160
EN-0500	5.000	5	127.00	4.790	0.120	4.750			0.109	0.312	0.625	0.180	0.125	22280

ONCE INSTALLED IN THE GROOVE OF A SHAFT, THE SHOULDER HOLDS AN ASSEMBLY IN PLACE.



Free Diameter & Ring Measurement

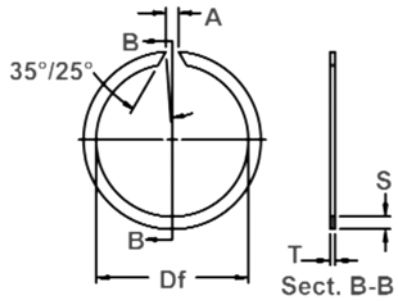


Shaft Diameter & Groove Dimensions

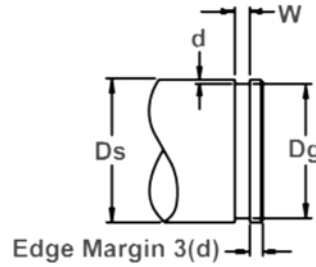
Material SAE 1060-1075

Ring No.	Shaft Diameter (S)			Groove Size			Ring Dimensions						Thrust Capacity (lbf)
				Diameter		Width	Free Diameter		Ring	Max. Sec.	Free Gap A		
	Ds DEC	Ds FRACT	Ds mm	Dg	tol.	W	Df	tol.	T (+/- .002)	S ref.	min	max	
XAN-0031	0.312	5/16 in		0.290	+/- .002	0.028 + .003/- .000	0.281	+ .000/- .015	0.025	0.040 +/- .003	0.031	0.156	180
XAN-0034	0.344	11/32 in		0.322			0.312		0.025		0.031	0.156	190
XAN-0035	0.354			0.330			0.320		0.025		0.031	0.156	210
XAN-0037	0.375	3/8 in		0.351			0.341		0.025		0.031	0.156	230
XAN-0039	0.393			0.369			0.359		0.025		0.031	0.156	260
XAN-0040	0.406	13/32 in		0.382			0.372		0.025		0.031	0.156	280
XAN-0043	0.438	7/16 in		0.412			0.402		0.025		0.031	0.156	300
XAN-0046	0.469	15/32 in		0.443			0.433		0.025		0.031	0.156	320
XAN-0050	0.500	1/2 in		0.474		0.464	0.035	0.062	0.218	460			
XAN-0055	0.551			0.524		0.514	0.035	0.062	0.218	480			
XAN-0056	0.562	9/16 in		0.534		0.524	0.035	0.062	0.218	490			
XAN-0059	0.594	19/32 in		0.566		0.555	0.035	0.062	0.218	510			
XAN-0062	0.625	5/8 in		0.597		0.586	0.035	0.062	0.218	520			
XAN-0066	0.669			0.640		0.630	0.035	0.062	0.218	570			
XAN-0068	0.688	11/16 in		0.656		0.644	0.042	0.062	0.218	700			
XAN-0075	0.750	3/4 in		0.716		0.703	0.042	0.062	0.218	820			
XAN-0078	0.781	25/32 in		0.745	0.733	0.042	0.062	0.218	950				
XAN-0081	0.812	13/16 in		0.776	0.764	0.042	0.062	0.218	1010				
XAN-0087	0.875	7/8 in		0.835	0.820	0.042	0.093	0.250	1100				
XAN-0093	0.938	15/16 in		0.896	0.881	0.042	0.093	0.250	1130				
XAN-0098	0.984	63/64 in		0.940	0.925	0.042	0.093	0.250	1170				
XAN-0100	1.000	1 in		0.956	0.941	0.042	0.156	0.312	1200				
XAN-0102	1.023			0.977	0.962	0.042	0.156	0.312	1300				
XAN-0106	1.062	1 1/16 in		1.016	1.000	0.050	0.156	0.312	1600				
XAN-0112	1.125	1 1/8 in		1.075	1.060	0.050	0.156	0.312	1880				
XAN-0118	1.188	1 3/16 in		1.136	1.121	0.050	0.156	0.312	1990				
XAN-0125	1.250	1 1/4 in		1.194	1.179	0.050	0.156	0.312	2090				
XAN-0131	1.312	1 5/15 in		1.250	1.232	0.050	0.156	0.312	2100				
XAN-0137	1.375	1 3/8 in		1.309	1.291	0.050	0.156	0.312	2300				
XAN-0143	1.438	1 7/16 in		1.370	1.351	0.050	0.156	0.312	2460				
XAN-0150	1.500	1 1/2 in		1.430	1.408	0.050	0.156	0.312	2500				
XAN-0156	1.562	1 9/16 in		1.490	1.467	0.062	0.156	0.375	3060				
XAN-0162	1.625	1 5/8 in		1.551	1.527	0.062	0.156	0.375	3190				
XAN-0168	1.687	1 11/16 in		1.611	1.581	0.062	0.156	0.375	3370				
XAN-0175	1.750	1 3/4 in		1.670	1.640	0.062	0.156	0.375	3510				
XAN-0177	1.771			1.687	1.657	0.062	0.156	0.375	3550				
XAN-0181	1.812	1 13/16 in		1.728	1.698	0.062	0.156	0.375	3640				
XAN-0187	1.875	1 7/8 in		1.789	1.759	0.062	0.156	0.375	3760				

ONCE INSTALLED IN THE GROOVE OF A SHAFT, THE SHOULDER HOLDS AN ASSEMBLY IN PLACE.



Free Diameter & Ring Measurement

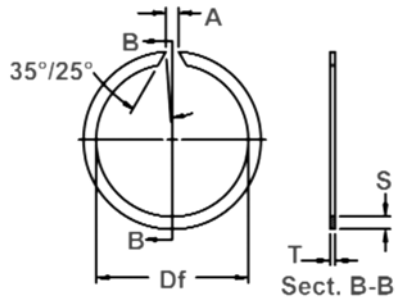


Shaft Diameter & Groove Dimensions

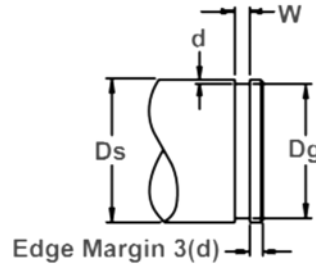
Material SAE 1060-1075

Ring No.	Shaft Diameter (S)			Groove Size			Ring Dimensions						Thrust Capacity (lbf)
				Diameter		Width	Free Diameter		Ring	Max. Sec.	Free Gap A		
	Ds DEC	Ds FRACT	Ds mm	Dg	tol.	W	Df	tol.	T (+/- .002)	S ref.	min	max	
XAN-0196	1.969	1 31/32 in		1.879	+/- .006	+0.000/- .046	1.849	+0.000/- .046	0.062	0.156 +/- .005	0.156	0.375	3940
XAN-0200	2.000	2 in		1.910			1.880		0.062		0.156	0.375	4010
XAN-0206	2.062	2 1/16 in		1.966			1.936		0.078		0.156	0.375	5350
XAN-0212	2.125	2 1/8 in		2.027			1.997		0.078		0.156	0.375	5470
XAN-0215	2.156	2 5/32 in		2.056			2.026		0.078		0.156	0.375	5680
XAN-0225	2.250	2 1/4 in		2.146			2.116		0.078		0.156	0.375	5790
XAN-0231	2.312	2 5/16 in		2.204			2.174		0.078	0.156	0.375	6300	
XAN-0237	2.375	2 3/8 in		2.265			2.235		0.078	0.156	0.375	6400	
XAN-0243	2.437	2 7/16 in		2.325			2.295		0.078	0.156	0.375	6500	
XAN-0250	2.500	2 1/2 in		2.386			2.356		0.078	0.156	0.375	6600	
XAN-0255	2.559			2.443			2.413		0.078	0.156	0.375	6700	
XAN-0262	2.625	2 5/8 in		2.505			2.475		0.078	0.156	0.375	6800	
XAN-0268	2.687	2 11/16 in		2.565			2.535		0.078	0.156	0.375	6900	
XAN-0275	2.750	2 3/4 in		2.624			2.594		0.093	0.187	0.437	8460	
XAN-0287	2.875	2 7/8 in		2.743			2.713		0.093	0.187	0.437	8840	
XAN-0293	2.937	2 15/16 in		2.801		2.771	0.093	0.187	0.437	9030			
XAN-0300	3.000	3 in		2.860		2.830	0.093	0.187	0.437	9230			
XAN-0306	3.062	3 1/16 in		2.920		2.890	0.093	0.187	0.437	9420			
XAN-0312	3.125	3 1/8 in		2.981		2.951	0.093	0.187	0.437	9630			
XAN-0315	3.156	3 5/32 in		3.010		2.980	0.093	0.187	0.437	9800			
XAN-0325	3.250	3 1/4 in		3.100		3.070	0.093	0.187	0.437	10000			
XAN-0334	3.344	3 11/32 in		3.190		3.160	0.093	0.187	0.437	10290			
XAN-0343	3.437	3 7/16 in		3.281		3.251	0.093	0.187	0.437	10570			
XAN-0350	3.500	3 1/2 in		3.340		3.305	0.109	0.250	0.562	11970			
XAN-0354	3.543			3.381		3.346	0.109	0.250	0.562	12120			
XAN-0362	3.625	3 5/8 in		3.458		3.423	0.109	0.250	0.562	12300			
XAN-0368	3.687	3 11/16 in		3.517		3.482	0.109	0.250	0.562	12600			
XAN-0375	3.750	3 3/4 in		3.576		3.541	0.109	0.250	0.562	12800			
XAN-0387	3.875	3 7/8 in		3.697		3.657	0.109	0.250	0.562	13200			
XAN-0393	3.938	3 15/16 in		3.758		3.713	0.109	0.250	0.562	13470			
XAN-0400	4.000	4 in		3.816	3.771	0.109	0.250	0.656	13650				
XAN-0425	4.250	4 1/4 in		4.066	4.016	0.109	0.250	0.656	15000				
XAN-0437	4.375	4 3/8 in		4.191	4.141	0.109	0.250	0.656	15500				
XAN-0450	4.500	4 1/2 in		4.310	4.255	0.109	0.250	0.656	16200				
XAN-0475	4.750	4 3/4 in		4.550	4.495	0.109	0.250	0.656	16480				
XAN-0500	5.000	5 in		4.790	4.730	0.109	0.250	0.656	17110				

ONCE INSTALLED IN THE GROOVE OF A SHAFT, THE SHOULDER HOLDS AN ASSEMBLY IN PLACE.



Free Diameter & Ring Measurement

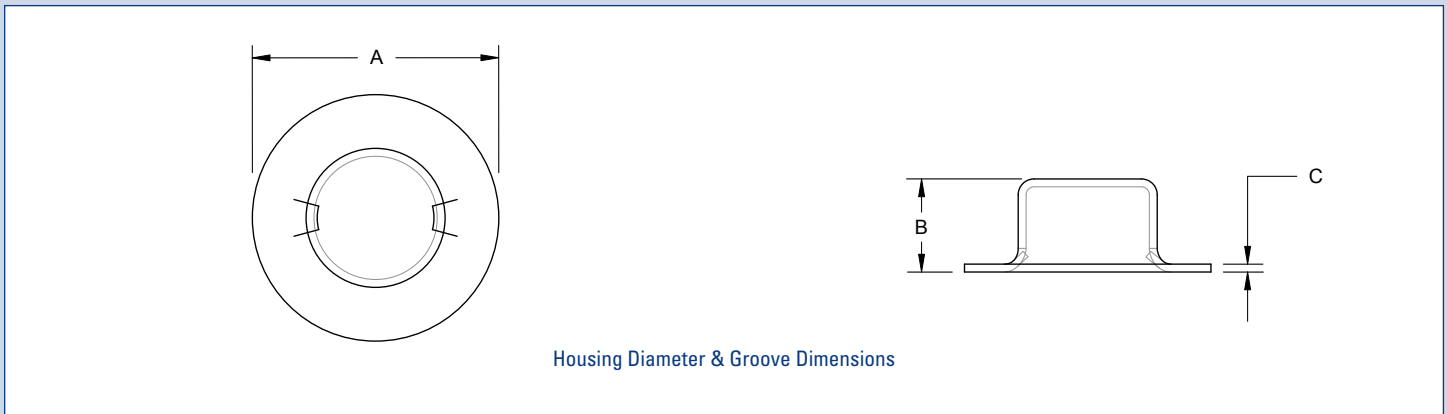


Shaft Diameter & Groove Dimensions

Material SAE 1060-1075

Ring No.	Shaft Diameter (S)			Groove Size			Ring Dimensions						Thrust Capacity (lbf)
				Diameter		Width	Free Diameter		Ring	Max. Sec.	Free Gap A		
	Ds DEC	Ds FRACT	Ds mm	Dg	tol.	W	Df	tol.	T (+/- .002)	S ref.	min	max	
XAN-0525	5.250	5 1/4 in		5.030	+/- .006	0.139 + .006/- .000	4.970	+ .000/- .125	0.125	0.375 +/- .005	0.250	0.750	20590
XAN-0550	5.500	5 1/2 in	5.266	5.206			0.125		0.250		0.750	21790	
XAN-0575	5.750	5 3/4 in	5.506	5.446			0.125		0.250		0.750	23010	
XAN-0590	5.900		5.656	5.600			0.125		0.250		0.750	23625	
XAN-0600	6.000	6 in	5.746	5.687			0.125		0.250		0.750	24000	
XAN-0625	6.250	6 1/4 in	5.986	5.916			0.156		0.250		0.750	30310	
XAN-0650	6.500	6 1/2 in	6.226	6.151	0.174 + .008/- .000	6.151	+ .000/- .156	0.156	0.437 +/- .005	0.250	0.750	33760	
XAN-0675	6.750	6 3/4 in	6.466	6.386		0.156		0.250		0.750	36840		
XAN-0700	7.000	7 in	6.706	6.621		0.156		0.250		0.750	39920		
XAN-0725	7.250	7 1/4 in	6.930	6.840		0.187		0.250		0.875	43100		
XAN-0750	7.500	7 1/2 in	7.180	7.090		0.187		0.250		0.875	44500		
XAN-0800	8.000	8 in	7.660	7.560		0.187		0.250		0.875	45500		
XAN-0850	8.500	8 1/2 in	8.160	8.050	0.209 + .008/- .000	8.050	+ .000/- .156	0.187	0.500 +/- .005	0.250	0.875	46700	
XAN-0900	9.000	9 in	8.660	8.545		0.187		0.250		0.875	49900		
XAN-0925	9.250	9 1/4 in	8.910	8.800		0.187		0.250		0.875	51000		
XAN-0950	9.500	9 1/2 in	9.160	9.040		0.187		0.250		0.875	52590		
XAN-1000	10.000	10 in	9.660	9.535		0.187		0.250		0.875	55600		

ONCE INSTALLED IN THE GROOVE OF A SHAFT, THE SHOULDER HOLDS AN ASSEMBLY IN PLACE.



Part No.	Stud Dia.*	Washer Dia. A	HT B	TK C	Min. Pull- Off (lbs.)
HP18843	3/16"	.437"	.202"	.015"	220
HP18850	3/16"	.500"	.202"	.015"	220
HP25056	1/4"	.560"	.205"	.018"	360
HP31262	5/16"	.625"	.236"	.020"	460
HP37568	3/8"	.688"	.234"	.020"	380
HP37575	3/8"	.750"	.270"	.025"	700
HP71687	7/16"	.875"	.328"	.030"	825
HP50094	1/2"	.940"	.330"	.030"	800
HP58118	5/8"	1.190"	.413"	.030"	1500
HP7513	3/4"	1.310"	.413"	.035"	1500

*Stud and Rod design requirements: diameter tolerance of $\pm .0025"$ (.06mm). Material hardness must not exceed Rockwell 30T-78. Chrome plating should be avoided and nickel plating greater than .0003" should also be avoided. The stud/rod should have a lead in chamfer as sharp edges with burrs can prevent proper functioning of the fastener.

Push-On Hat Fasteners

Push-on hat fasteners are designed to hold components on plain round shafts, rods or axles.

Reduce Costs - Eliminate costly secondary operations such as notching, threading or drilling.

Fast, Easy Assembly - No need to find a thread or turn a nut down with a torque wrench. "Push-ons" can be quickly pushed on a shaft or stud.

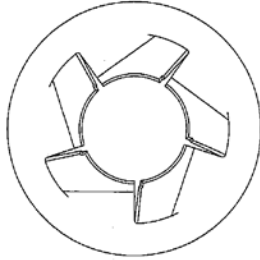
Applications - Push-on fasteners can be used as decorative covers for unsightly stud ends or to protect from scratches or snags. They are used in almost every industry with diverse applications ranging from hubcaps for toy wheels to boat trailer roller caps.

Material and Standard Finishes

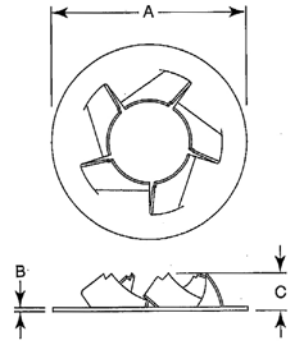
Material is 1050 steel. Standard finishes available: Plain (hardened and tempered, no secondary finish), Mechanical Zinc (clear, yellow or black dichromate), Electro Zinc (clear, yellow or black dichromate) and Phosphate & Oil (dull black finish).

Application Tips

Fixtures should be used to apply the fasteners. The fasteners should be presented squarely to the stud or rod, crooked application can affect the performance of the fastener. The fasteners should be applied with a load on the top of the hat, avoid applying a load to the brim of the hat.



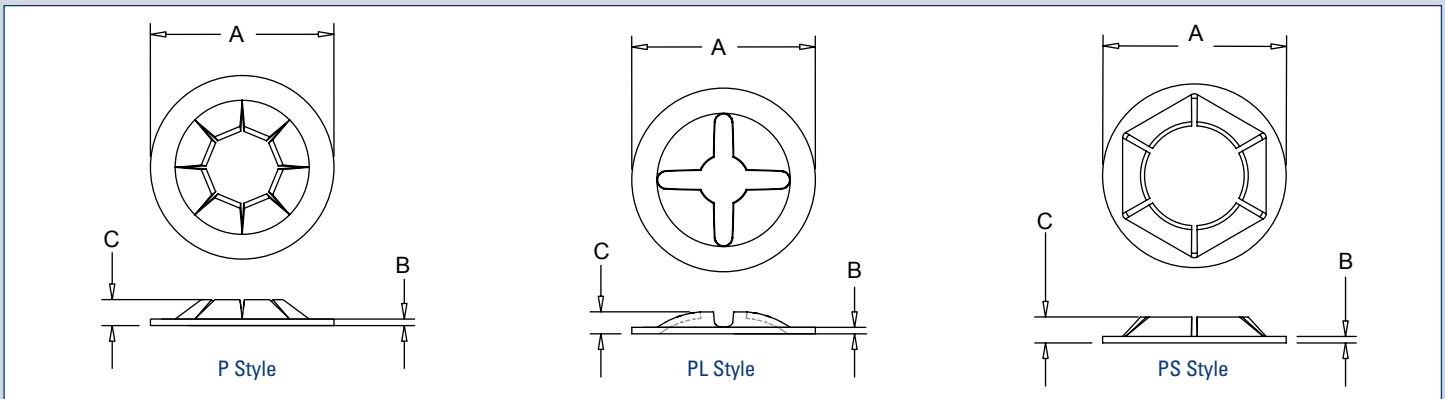
PB Style



Part No.	Stud Dia.	OD A	TK B	HT C	Approx. Wgt./M
PB837-10	8	.375"	.015"	.049"	.3
PB25050-10	1/4"	.500"	.010"	.086"	.5
PB31262-13	5/16"	.625"	.013"	.082"	.8
PB31262-18	5/16"	.625"	.018"	.084"	1.2
PB37578-15	3/8"	.780"	.015"	.093"	1.7
PB43785-15	7/16"	.843"	.015"	.104"	1.7
PB50094-15	1/2"	.938"	.015"	.122"	2.2
PB56298-15	9/16"	.979"	.015"	.128"	2.3
PB56299-15	9/16"	.984"	.015"	.150"	2.3
PBM6129-10	M6	12.70mm	.25mm	2.18mm	.5
PBM6160-10	M6	15.70mm	.25mm	2.01mm	1.0
PBM63127-10	M6.3	12.70mm	.25mm	1.98mm	.5
PBM8159-13	M8	15.87mm	.33mm	2.11mm	.9
PBM1020-15	M10	19.81mm	.38mm	2.41mm	1.6
PBM1221-15	M12	21.41mm	.38mm	2.62mm	1.8
PBM1221-15-1	M12	21.46mm	.38mm	2.95mm	1.8
PBM1435-15-1	M14	35.00mm	.38mm	3.30mm	5.2

Material and Standard Finishes

Stamped from SAE 1050 spring steel-hardened, tempered and plated with any of the standard finishes. Standard finishes include: Plain (hardened and tempered, no secondary finish), Mechanical Zinc (clear, yellow or black dichromate), Electro Zinc (clear, yellow or black dichromate) and Phosphate & Oil (dull black finish). Other materials are available.



Part No.	Stud Dia.*	OD A	HT C	TK B	Min. Pull- Off (lbs.)
P06219-10	1/16"	.195"	.038"	.010"	75
P11737-13	.117"	.375"	.052"	.013"	300
P125312-15	1/8"	.312"	.052"	.015"	300
P12537-13	1/8"	.375"	.052"	.013"	300
P15643-10	5/32"	.437"	.047"	.010"	60
P15643-13	5/32"	.437"	.055"	.013"	180
P18843-10	3/16"	.437"	.056"	.010"	200
P18843-13	3/16"	.437"	.060"	.013"	300
P18843-15	3/16"	.437"	.064"	.015"	400
P18853-10	3/16"	.531"	.060"	.010"	60
P18853-17	3/16"	.531"	.075"	.017"	400
P21853-10	7/32"	.531"	.055"	.010"	200
P21853-17	7/32"	.531"	.068"	.017"	580
P21953-13	.219"	.531"	.067"	.013"	200
P24053-10	.240"	.531"	.054"	.010"	200
P24053-17	.240"	.531"	.048"	.017"	400
P24053-17-1	.240"	.531"	.069"	.017"	600
P25053-13	1/4"	.531"	.055"	.013"	400
P25053-17	1/4"	.531"	.066"	.017"	600
P25075-21	1/4"	.750"	.060"	.021"	700
P31262-15	5/16"	.625"	.050"	.015"	300
P31262-21	5/16"	.626"	.072"	.021"	900
P31262-25	5/16"	.625"	.070"	.025"	500
P37575-17	3/8"	.750"	.061"	.017"	700
P37575-25	3/8"	.750"	.081"	.025"	900
PL12537-15	1/8"	.375"	.063"	.015"	60
PS25093-15	1/4"	.938"	.083"	.015"	100
PS31294-15	5/16"	.940"	.097"	.015"	200
PS37594-15	3/8"	.940"	.093"	.015"	250
PS50094-15	1/2"	.940"	.064"	.015"	500
PM3295-13	M3.2	9.50	1.40	0.33	100
PM40110-10	M4	11.18mm	1.40	0.25mm	100
PM5011-10	M5	11.10mm	1.32mm	0.25mm	100
PM5015-15	M5	15.87mm	1.45mm	0.38mm	300
PM6013-10	M6	13.46mm	1.40mm	0.25mm	200
PM6135-17	M6.1	13.49mm	1.68mm	0.43mm	300
PM10019	M10	19.05mm	1.90mm	0.63mm	TBD

*Stud and Rod design requirements: diameter tolerance of $\pm .0025"$ (.06mm). Material hardness must not exceed Rockwell 30T-78. Chrome plating should be avoided and nickel plating greater than .0003" should also be avoided. The stud/rod should have a lead in chamfer as sharp edges with burrs can prevent proper functioning of the fastener.

RRPK-1

	INTERNAL RINGS	EXTERNAL RINGS
1 PAIR	CONVERTIBLE PLIERS #1120 (RP-120)	
30 PCS.	HO-0037-PA	SH-0037-PA
30 PCS.	HO-0043-PA	SH-0043-PA
30 PCS.	HO-0050-PA	SH-0050-PA
30 PCS.	HO-0075-PA	SH-0075-PA
20 PCS.	HO-0087-PA	SH-0087-PA
15 PCS.	HO-0100-PA	SH-0100-PA

RRPK-2

	INTERNAL RINGS	EXTERNAL RINGS
1 PAIR	CONVERTIBLE PLIERS #1340 (RP-340)	
10 PCS.	HO-0112-PA	SH-0112-PA
10 PCS.	HO-0125-PA	SH-0125-PA
10 PCS.	HO-0137-PA	SH-0137-PA
10 PCS.	HO-0150-PA	SH-0150-PA
10 PCS.	HO-0162-PA	SH-0162-PA
6 PCS.	HO-0175-PA	SH-0175-PA

RRK-3

	INTERNAL RINGS	EXTERNAL RINGS
30 PCS.	HO-0050-PA	SH-0050-PA
20 PCS.	HO-0062-PA	SH-0062-PA
20 PCS.	HO-0075-PA	SH-0075-PA
20 PCS.	HO-0087-PA	SH-0087-PA
20 PCS.	HO-0100-PA	SH-0100-PA
10 PCS.	HO-0125-PA	SH-0125-PA
10 PCS.	HO-0137-PA	SH-0137-PA
10 PCS.	HO-0150-PA	SH-0150-PA
8 PCS.	HO-0162-PA	SH-0162-PA
8 PCS.	HO-0175-PA	SH-0175-PA
4 PCS.	HO-0187-PA	SH-0187-PA
4 PCS.	HO-0200-PA	SH-0200-PA

Metric Internal & External

DIN 471 / 472-K

279 Internal / 316 External

INTERNAL RINGS		EXTERNAL RINGS	
QUANTITY	BORE Ø (MM)	QUANTITY	SHAFT Ø (MM)
18 PCS.	14	25 PCS.	6
18 PCS.	15	22 PCS.	8
18 PCS.	16	18 PCS.	10
18 PCS.	18	18 PCS.	11
18 PCS.	20	18 PCS.	12
18 PCS.	22	18 PCS.	14
15 PCS.	24	18 PCS.	15
15 PCS.	25	18 PCS.	16
15 PCS.	26	18 PCS.	17
15 PCS.	27	15 PCS.	18
15 PCS.	28	15 PCS.	20
15 PCS.	30	15 PCS.	22
15 PCS.	32	15 PCS.	24
12 PCS.	35	15 PCS.	25
12 PCS.	36	12 PCS.	28
12 PCS.	38	12 PCS.	30
10 PCS.	40	12 PCS.	32
10 PCS.	42	12 PCS.	35
10 PCS.	47	10 PCS.	36
		10 PCS.	40

FOR DISPENSING OF RADIALLY-INSTALLED C,E/SE, RE, PO/POL, ME AND JE RETAINING RINGS

Retaining ring dispensers feature "rail" over which a stack of retaining rings can be slipped. Once in position, they can be "dispensed" one at a time using a retaining ring applicator for ease of installation. Two such models are available to meet your particular dispensing needs:

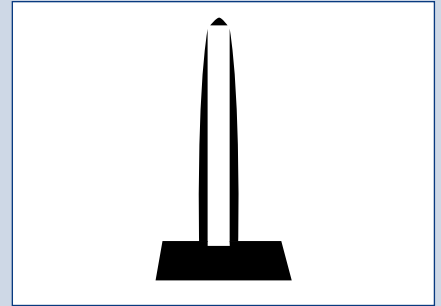
Spring Rail (SD) dispensers are competitively priced and offer significant improvements (like more rail capacity and durable construction) on existing designs.

The Heavy Duty (D) is a more permanent version which features replaceable parts and can be permanently affixed to your work station.

Features:

- Sturdy, Industrial-Quality Construction.
- Fast, Easy Loading.
- Accept Tape-Stacked Rings.
- Precise, Single Ring Ejection.

- Longer Rail For More Capacity.
- Part and Tool Number Stamped on Dispenser for Fast, Easy Identification of Tool and Corresponding Ring.
- Powder Metal Coating for a Durable, No-Rust Finish (Spring Rail Dispenser, Only.)



HEAVY-DUTY DISP		SPRING-RAIL DISP	
RING SIZE	DISP. NO.	RING SIZE	DISP. NO.
C-0012	D-10	C-0012	SD-10
C-0015	D-20	C-0015	SD-20
C-0018	D-30	C-0018	SD-30
C-0021	D-40	C-0021	SD-40
C-0023	D-50	C-0023	SD-50
C-0025	D-60	C-0025	SD-60
C-0028	D-70	C-0028	SD-70
C-0031	D-80	C-0031	SD-80
C-0037	D-90	C-0037	SD-90
C-0040	D-100	C-0040	SD-100
C-0043	D-110	C-0043	SD-110
C-0050	D-120	C-0050	SD-120
C-0056	D-130	C-0056	SD-130
C-0062	D-140	C-0062	SD-140
C-0068	D-150	C-0068	SD-150
C-0075	D-160	C-0075	SD-160
C-0081	D-170	C-0081	SD-170
C-0087	D-180	C-0087	SD-180
C-0100	D-190	C-0100	SD-190
C-0112	D-200	C-0112	SD-200

HEAVY-DUTY DISP	
RING SIZE	DISP. NO.
DC-0005	D-503
DC-0007	D-757
DC-0008	D-506
DC-0011	D-608

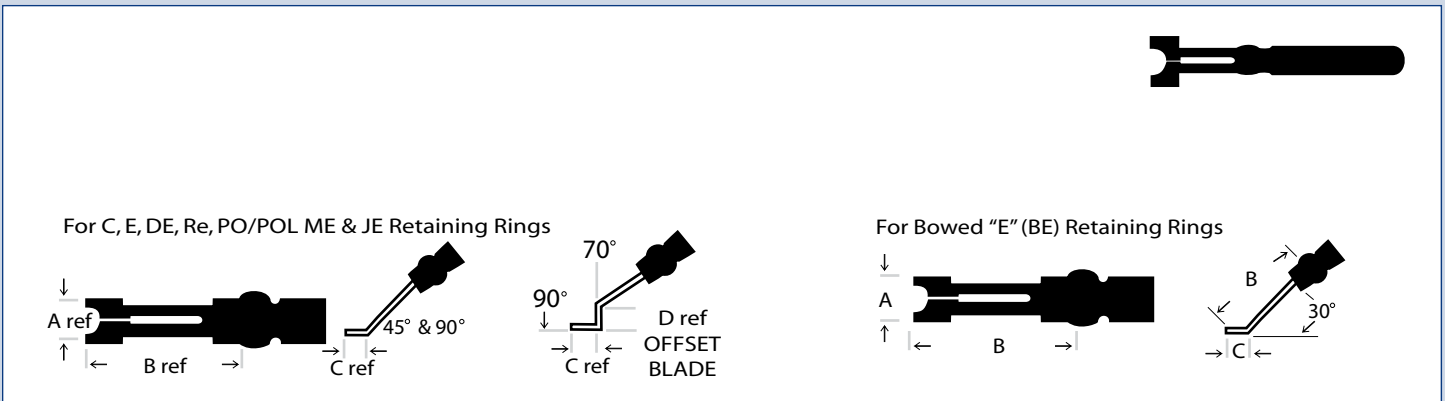
HEAVY-DUTY DISP	
RING SIZE	DISP. NO.
ME-0002	D-210
ME-0003	D-230
ME-0004	D-250
ME-0005	D-260
ME-0006	D-360
ME-0007	D-270
ME-0008	D-370
ME-0009	D-690
ME-0010	D-280
ME-0011	D-290
ME-0012	D-660
ME-0013	D-300
ME-0015	D-672
ME-0016	D-160
ME-0022	D-320

HEAVY-DUTY DISP		SPRING-RAIL DISP	
RING SIZE	DISP. NO.	RING SIZE	DISP. NO.
SE-0006	D-390	SE-0006	SD-390
YE-0006	D-460	YE-0006	SD-460
E-0006	D-210	E-0006	SD-210
SE-0009	D-330	SE-0009	SD-395
E-0009	D-220	E-0009	SD-220
SE-0011	D-400	SE-0011	SD-400
SE-0012	D-231	SE-0014	SD-405
SE-0014	D-230	E-0012	SD-230
E-0012	D-230	YE-0014	SD-465
YE-0014	D-465	E-0014	SD-240
E-0014	D-240	E-0015	SD-250
E-0015	D-250	SE-0017	SD-410
SE-0017	D-410	SE-0018	SD-415
SE-0018	D-350	E-0018	SD-260
E-0018	D-260	SE-0021	SD-416
SE-0021	D-360	E-0025	SD-270
E-0025	D-270	SE-0031	SD-420
SE-0031	D-420	SE-0043	SD-430
SE-0037	D-608	E-0037	SD-280
E-0037	D-280	E-0043	SD-290
E-0043	D-290	SE-0074	SD-440
SE-0043	D-430	E-0050	SD-300
E-0050	D-300	E-0062	SD-305
E-0062	D-160	SE-0098	SD-450
SE-0074	D-440	E-0075	SD-310
E-0075	D-310	E-0087	SD-320
E-0087	D-320		
SE-0098	D-450		

HEAVY-DUTY DISP		SPRING-RAIL DISP	
RING SIZE	DISP. NO.	RING SIZE	DISP. NO.
PO-0015	D-800	PO-0015	SD-800
PO-0018	D-810	PO-0018	SD-810
PO-0025	D-820	PO-0025	SD-820
PO-0031	D-830	PO-0031	SD-830
PO-0037	D-840	PO-0037	SD-840
PO-0043	D-850	PO-0043	SD-850
PO-0050	D-860	PO-0050	SD-860
POL-0015	D-900	POL-0015	SD-900
POL-0018	D-910	POL-0018	SD-910
POL-0025	D-820	POL-0025	SD-920
POL-0031	D-930	POL-0031	SD-930
POL-0037	D-840	POL-0037	SD-940
POL-0043	D-950	POL-0043	SD-950
POL-0050	D-960	POL-0050	SD-960

HEAVY-DUTY DISP		SPRING-RAIL DISP	
RING SIZE	DISP. NO.	RING SIZE	DISP. NO.
RE-0009	D-330	RE-0009	SD-330
RE-0012	D-340	RE-0012	SD-340
RE-0015	D-350	RE-0015	SD-350
RE-0018	D-260	RE-0018	SD-355
RE-0021	D-360	RE-0021	SD-360
RE-0025	D-270	RE-0025	SD-365
RE-0031	D-370	RE-0031	SD-370
RE-0037	D-280	RE-0037	SD-375
RE-0043	D-380	RE-0043	SD-380
RE-0050	D-300	RE-0050	SD-385
RE-0056	D-150	RE-0056	SD-386

HEAVY-DUTY DISP		SPRING-RAIL DISP	
RING SIZE	DISP. NO.	RING SIZE	DISP. NO.
DE-1,2	D-712	DE-1,5	SD-715
DE-1,5	D-715	DE-1,9	SD-719
DE-1,9	D-719	DE-2,3	SD-723
DE-2,3	D-723	DE-3,2	SD-732
DE-3,2	D-732	DE-0004	SD-704
DE-0004	D-410	DE-0005	SD-705
DE-0005	D-360	DE-0006	SD-706
DE-0006	D-360	DE-0007	SD-707
DE-0007	D-607	DE-0008	SD-708
DE-0008	D-608	DE-0009	SD-709
DE-0009	D-610	DE-0010	SD-610
DE-0010	D-610	DE-0012	SD-612
DE-0012	D-612		



Applicators are designed to install standard radial retaining rings on a shaft. Used with Dispensers, applicators enable operators to install rings quickly and correctly (ring “snaps” when properly seated in groove.)

- For assembly of Inch/Metric radial retaining rings.
- Heat treated for strength.
- Allows for installation without turning tool.
- For use with C, E, BE, RE, PO/POL, E, DE, ME

*DMR Applicator For “C” Retaining Rings					
Ring Size	DMR App.	Blade Width A	Blade Length B	Tip Length C	Off Set D
C-0012	A-300	.264	1.438	.375	.375
C-0015	A-080	.500	1.438	.375	.375
C-0018	A-090	.500	1.438	.375	.375
C-0021	A-310	.500	1.438	.375	.375
C-0023	A-320	.500	1.438	.375	.375
C-0025	A-330	.500	1.438	.375	.375
C-0028	A-340	.500	1.438	.375	.375
C-0031	A-350	.500	1.438	.375	.375
C-0037	A-360	.812	2.218	.593	.625
C-0040	A-370	.812	2.218	.593	.625
C-0043	A-380	.812	2.218	.593	.625
C-0050	A-290	.812	2.218	.593	.625
C-0056	A-390	.812	2.218	.593	.625
C-0062	A-400	1.125	2.390	.765	.625
C-0068	A-410	1.125	2.390	.765	.625
C-0075	A-280	1.125	2.390	.765	.625
C-0081	A-420	1.125	2.390	.765	.625
C-0087	A-430	1.125	2.390	.765	.625
C-0093	A-440	1.562	2.625	.969	.625
C-0100	A-450	1.562	2.625	.969	.625
C-0112	A-460	1.562	2.625	.969	.625
C-0125	A-470	1.562	2.625	.969	.625
C-0137	A-480	1.562	1.875	1.188	.625
C-0150	A-490	1.562	1.875	1.188	.625

DMR Applicator For “BE/BSE” Retaining Rings						
Ring Size	DMR App.	Blade Width A	Blade Length B	Tip Length C	Off Set D	
BSE-	A-550	.500	1.375	.375	.375	
BE-0012	A-551	.500	1.375	.375	.375	
BE-0014	A-552	.500	1.375	.375	.375	
BSE-	A-553	.500	1.375	.375	.375	
BE-0015	A-554	.500	1.375	.375	.375	
BSE-	A-555	.500	1.375	.375	.375	
BE-0018	A-556	.500	1.375	.375	.375	
BSE-	A-557	.500	1.375	.375	.375	
BSE-	A-558	.812	2.156	.625	.625	
BE-0025	A-559	.812	2.156	.625	.625	
BSE-	A-560	.812	2.156	.625	.625	
BE-0037	A-561	.812	2.156	.625	.625	
BE-0043	A-562	.812	2.156	.625	.625	
BSE-	A-563	.812	2.156	.625	.625	
BE-0050	A-564	1.125	2.250	.750	.875	
BE-0062	A-565	1.125	2.250	.750	1.000	
BSE-	A-566	1.562	2.469	1.093	1.000	
BE-0075	A-567	1.562	2.469	1.093	1.000	
BE-0087	A-568	1.562	2.469	1.093	1.000	
BSE-	A-569	1.875	2.812	1.188	1.188	

Please wear protective eyewear while installing and removing retaining rings and hose clamps.

*DMR Applicator For “RE” Retaining Rings					
Ring Size	DMR App.	Blade Width A	Blade Length B	Tip Length C	Off Set D
RE-0009	A-080	.500	1.438	.375	.375
RE-0012	A-520	.500	1.438	.375	.375
RE-0015	A-120	.500	1.438	.375	.375
RE-0018	A-130	.500	1.438	.375	.375
RE-0021	A-140	.812	2.218	.593	.625
RE-0025	A-160	.812	2.218	.593	.625
RE-0031	A-500	.812	2.218	.593	.625
RE-0037	A-170	.812	2.218	.593	.625
RE-0043	A-270	1.125	2.390	.765	.625
RE-0050	A-200	1.125	2.390	.765	.625
RE-0056	A-280	1.125	2.390	.765	.625

**DMR Applicator For “DE” Retaining Rings					
Ring Size	DMR App.	Blade Width A	Blade Length B	Tip Length C	Off Set D
DE-0,8	A-708	.265	1.438	.375	.375
DE-1,2	A-712	.265	1.438	.375	.375
DE-1,5	A-715	.265	1.438	.375	.375
DE-1,9	A-719	.265	1.438	.375	.375
DE-2,3	A-723	.500	1.438	.375	.375
DE-3,2	A-310	.500	1.438	.375	.375
DE-0004	A-340	.500	1.438	.375	.375
DE-0005	A-605	.812	2.218	.593	.625
DE-0006	A-606	.812	2.218	.593	.625
DE-0007	A-607	.812	2.218	.593	.625
DE-0008	A-608	.812	2.218	.593	.625
DE-0009	A-609	1.125	2.390	.765	.625
DE-0010	A-610	1.125	2.390	.765	.625
DE-0012	A-612	1.562	2.625	.969	.625
DE-0015	A-615	1.562	2.625	.969	.625
DE-0019	A-619	1.875	2.844	1.188	.625

* 45°, 90° and Offset applicators for C, E and RE retaining rings - Replace the last “0” of the applicator designation with a “4” (45°), “9” (90°), or “7” (Offset.) (Ex., A-304, A-309, A-307, etc.)

** 45°, 90° and Offset applicators for DE, DC, PO/POL, EL, JE and ME retaining rings - To the end of the applicator designation, add a “4” (45°), “9” (90°), or “7” (Offset.) (Ex., A-7084, A-7089, A-7087, etc.)

****DMR Applicator For "PO/POL" Retaining Rings**

Ring Size	DMR App.	Blade Width A	Blade Length B	Tip Length	Off Set D
PO-0015	A-815	.500	1.438	.375	.625
PO-0018	A-818	.812	2.218	.593	.625
PO-0025	A-825	.812	2.218	.593	.625
PO-0031	A-831	.812	2.218	.593	.625
PO-0037	A-837	1.125	2.390	.765	.625
PO-0043	A-843	1.125	2.390	.765	.625
PO-0050	A-850	1.125	2.390	.765	.625
POL-	A-915	.500	1.438	.375	.625
POL-	A-918	.812	2.218	.593	.625
POL-	A-925	.812	2.218	.593	.625
POL-	A-931	.812	2.218	.593	.625
POL-	A-937	1.125	2.390	.765	.625
POL-	A-943	1.125	2.390	.765	.625
POL-	A-950	1.125	2.390	.765	.625

***DMR Applicator For "ME" Retaining Rings**

Ring Size	DMR App.	Blade Width A	Blade Length B	Tip Length C	Off Set D
ME-0001	A-010	.265	1.438	.375	.375
ME-0002	A-040	.265	1.438	.375	.375
ME-0003	A-050	.500	1.438	.375	.375
ME-0004	A-100	.500	1.438	.375	.375
ME-0005	A-120	.500	1.438	.375	.375
ME-0006	A-140	.812	2.218	.593	.625
ME-0007	A-150	.812	2.218	.593	.625
ME-0008	A-290	.812	2.218	.593	.625
ME-0009	A-608	.812	2.218	.593	.625
ME-0010	A-170	.812	2.218	.593	.625
ME-0011	A-180	.812	2.218	.593	.625
ME-0012	A-609	1.125	2.390	.765	.625
ME-0013	A-200	1.125	2.390	.765	.625
ME-0015	A-612	1.125	2.390	.969	.625
ME-0016	A-210	1.125	2.390	.765	.625
ME-0022	A-240	1.125	2.625	.969	.625

****DMR Applicator For "DC" Retaining Rings**

RING SIZE	DMR APP. NO.	RING SIZE	APP. NO.
DC-0003	A-545	DC-0022	A-583
DC-0004	A-546	DC-0023	A-584
DC-0005	A-723	DC-0024	A-585
DC-0006	A-548	DC-0025	A-586
DC-0007	A-549	DC-0026	A-587
DC-0008	A-570	DC-0028	A-588
DC-0009	A-571	DC-0030	A-589
DC-0010	A-572	DC-0032	A-590
DC-0011	A-573	DC-0035	A-591
DC-0012	A-290	DC-0036	A-592
DC-0013	A-575	DC-0038	A-593
DC-0014	A-576	DC-0040	A-594
DC-0015	A-577	DC-0042	A-595
DC-0016	A-578	DC-0045	A-596
DC-0017	A-579	DC-0048	A-597
DC-0018	A-580	DC-0050	A-598
DC-0019	A-581	DC-0052	A-599
DC-0020	A-582	DC-0055	A-600

***DMR Applicator For "E/SE/YE" Retaining Rings**

Ring Size	DMR App.	Blade Width A	Blade Length B	Tip Length C	Off Set D
E-0004	A-010	.265	1.438	.375	.250
SE-0006	A-020	.265	1.438	.375	.375
YE-0006	A-030	.500	1.438	.375	.375
E-0006	A-040	.265	1.438	.375	.375
SE-0009	A-050	.500	1.438	.375	.375
E-0009	A-510	.500	1.438	.375	.375
SE-0011	A-060	.500	1.438	.375	.375
E-0012	A-050	.500	1.438	.375	.375
SE-0014	A-080	.500	1.438	.375	.375
YE-0014	A-090	.500	1.438	.375	.375
E-0014	A-070	.500	1.438	.375	.375
E-0015	A-100	.500	1.438	.375	.375
SE-0017	A-110	.500	1.438	.375	.375
SE-0018	A-130	.500	1.438	.375	.375
E-0018	A-120	.500	1.438	.375	.375
SE-0021	A-140	.812	2.218	.593	.625
E-0025	A-150	.812	2.218	.593	.625
SE-0031	A-160	.812	2.218	.593	.625
SE-0037	A-290	.812	2.218	.593	.625
E-0037	A-170	.812	2.218	.593	.625
E-0043	A-180	.812	2.218	.593	.625
SE-0043	A-190	.812	2.218	.593	.625
E-0050	A-200	1.125	2.390	.765	.625
E-0062	A-210	1.125	2.390	.765	.625
SE-0074	A-220	1.562	2.625	.969	.625
E-0075	A-230	1.562	2.625	.969	.625
E-0087	A-240	1.562	2.625	.969	.625
SE-0098	A-250	1.875	2.844	1.188	.625
SE-0118	A-260	1.875	2.844	1.188	.625

****DMR Applicator For "EL" Retaining Rings**

RING SIZE	DMR APP. NO.	BLADE WIDTH A	BLADE LENGTH	TIP LENGTH C
EL-0009	A-109	.438	2.188	.375
EL-0012	A-112	.438	2.188	.375
EL-0018	A-118	.625	2.188	.563
EL-0025	A-125	.750	2.188	.625
EL-0031	A-131	1.000	2.625	.750
EL-0037	A-137	1.125	2.625	.813
EL-0043	A-143	1.125	2.625	.938

****DMR Applicator For "EL" Replacement Grips**

EL-0009	A-109G
EL-0012	A-112G
EL-0018	A-118G
EL-0025	A-125G
EL-0031	A-131G
EL-0037	A-137G
EL-0043	A-143G

HEAVY DUTY APPLICATOR HANDLES

For Installation of Large PO/POL Retaining Rings (Sizes -62 to -100)

Install large PO/POL retaining rings quickly and safely. Features an applicator blade affixed to a heavy-duty handle. Plastic grip enables you to hold tool steady as you strike the rear of the tool with a hammer/mallet to install the ring. Shield at top prevents injury.

DMR Applicator For- "PO/POL" Large Retaining Rings

RING SIZE	DMR APP. NO.	BLADE WIDTH
PO-0062	A-862	1.125
PO-0075	A-875	1.562
PO-0100	A-810	1.875
POL-0062	A-962	1.125
POL-0075	A-975	1.562
POL-0100	A-910	1.875

Please wear protective eyewear while installing and removing retaining rings and hose clamps.

STANDARD RETAINING RING PLIERS

Standard Retaining Ring Pliers are made of high carbon, heat treated steel and produced to exacting QC specifications. They feature stop screw and return springs for problem-free installation/removal of retaining rings. This eliminates overspreading of external retaining rings, and speeds the assembly/removal of internal retaining rings by orienting plier to exact location of lug holes. And retaining ring pliers have exclusive air-cushioned handles.

RATCHET RETAINING RING PLIERS

Assemble large retaining rings up to 10" in diameter with ease and comfort using Ratchet Pliers. Spring loaded mechanisms compress or expand large rings through gradual "steps." Plier locks at the desired size without continued pressure on the handles.

(Note: Ratchet Pliers do not include plier tips, which must be purchased separately.)

CONVERTIBLE RETAINING RING PLIERS

Convert quickly and easily from internal to external pliers and back again. This two-in-one capability is cost effective and ideal for handling a variety of applications with a minimum number of tools. Simply move the screw to the other hole and tighten with finger pressure to convert quickly to an internal/external plier.

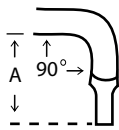
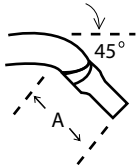
Heavy Duty RETAINING RING PLIERS

Heavy-Duty Retaining Ring Pliers are designed to perform with excessive use - up to 10 times longer than standard retaining ring pliers. The pliers are made of forged Chrome Vanadium steel, and the handles have a non-slip plastic coating. They feature inserted tips of high density drawn spring wire and a precision, smooth operating screw joint. Large contact faces on the tips help to eliminate distortion of the ring, and the slim head style allows for the use in confined areas.

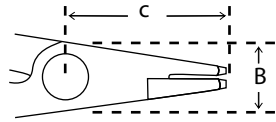
Grip Ring Pliers are designed for SHF & DSF external (shaft) friction rings. The pliers are made of forged Chrome Vanadium steel with non-slip solid tips, and the handles have a non-slip plastic coating. Features a spring loaded ratchet/gear to prevent overspreading of the retaining ring.

Safety Glasses should be worn when using retaining ring pliers.

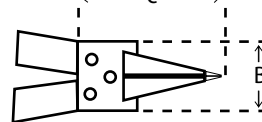
DIMENSIONAL ILLUSTRATIONS



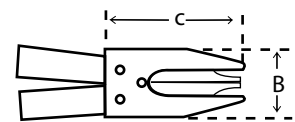
STANDARD & RATCHET PLIERS



UNSHIELDED



SHIELDED



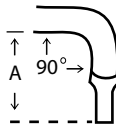
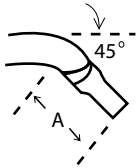
DMR Internal Series Pliers							General Dimensions						
Ring Series /SizeRange				DMR PLIERS	45 TIP PLIERS	90 TIP PLIERS	Weight lbs.	Tip Dia.	Tip Length A	CLOSED POSITION			
HO-BHO-VHO		HOI								Clearance		Length Std. Tip	Width
FROM	THRU	FROM	THRU							B	C		
-0025	-0031	-0062		0100-S	0104-S	0109-S	.15	.025	9/32	7/8	1-7/8	5-1/2	1-7/8
-0037	-0056	-0075	-0100	0100	0104	0109	.15	.038	9/32	7/8	1-7/8	5-1/2	1-7/8
-0062	-0102	-0106	-0137	0100-L	0104-L	0109-L	.15	.047	9/32	7/8	1-7/8	5-1/2	1-7/8
-0106	-0175	-0143	-0200	0300	0304	0309	.17	.070	11/32	7/8	2-1/8	6-7/16	2-1/4
-0181	-0300	-0206	-0300	0500	0504	0509	.62	.090	7/16	1-1/8	2-3/4	9	2-1/4

DMR External Series Pliers						General Dimensions									
Ring Series /SizeRange						DMR PLIERS	45 TIP PLIERS	90 TIP PLIERS	Weight lbs.	Tip Dia.	Tip Length A	CLOSED POSITION			
SH-BSH-VSH		SHI		SHR								Clearance		Length Std. Tip	Width
FROM	THRU	FROM	THRU	FROM	THRU							B	C		
-0012						0012	2124	2129	.05	.023	7/32	1/2	1-1/8	5-5/16	1-1/2
-0015						0015	2154	2159	.05	.023	7/32	1/2	1-1/8	5-5/17	1-1/2
-0018	-0023					0018	2184	2189	.05	.023	7/32	1/2	1-1/8	5-5/18	1-1/2
-0025	-0066	-0050	-0078	-0039	-0047	0200	0204	0209	.15	.038	9/32	1	2	5-1/2	2-1/2
-0068	-0087	-0081	-0100	-0050	-0066	0200-L	0204-L	0209-L	.15	.047	9/32	1	2	5-1/2	2-1/2
-0093	-0143	-0106	-0200	-0075	-0098	0400	0404	0409	.19	.070	11/32	1	2-3/8	7	2-7/8
-0150	-0350	-0215	-0334			0600	0604	0609	.44	.115	7/16	1-1/4	3-1/16	9-1/8	4-1/4

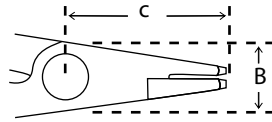
DMR Metric Internal Series Pliers					General Dimensions						
Ring Series /SizeRange		DMR PLIERS	45 TIP PLIERS	90 TIP PLIERS	Weight Kg	Tip Dia. mm	Tip Length A	CLOSED POSITION			
DHO (DIN 472) DHT (DIN)								Clearance		Length Std. Tip	Width
FROM	THRU							B	C		
-3	-10	RPI-0	RPI-045	RPI-090	1.0	0.9	8.3	19.0	47.8	140.5	54.9
-10	-25	RPI-1	RPI-145	RPI-190	1.0	1.1	8.3	19.0	47.8	140.5	54.9
-19	-60	RPI-2	RPI-245	RPI-290	1.4	1.8	10.0	22.6	52.3	165.9	64.8
-40	-100	RPI-3	RPI-345	RPI-390	3.3	2.3	13.9	28.6	69.7	229.9	72.1
-85	-165	RPI-4	RPI-445	RPI-490	6.2	3.2	20.0	43.2	70.1	292.4	58.7

DMR Metric External Series Pliers					General Dimensions						
Ring Series /SizeRange		DMR PLIERS	45 TIP PLIERS	90 TIP PLIERS	Weight Kg	Tip Dia. mm	Tip Length A	CLOSED POSITION			
DSH (DIN 471) DST (DIN)								Clearance		Length Std. Tip	Width
FROM	THRU							B	C		
-3	-10	RPA-0	RPA-045	RPA-090	1.0	0.9	8.3	22.2	38.1	141.7	73
-10	-25	RPA-1	RPA-145	RPA-190	1.0	1.3	8.3	22.2	38.1	141.7	73
-19	-60	RPA-2	RPA-245	RPA-290	1.5	1.8	14.0	25.4	51.6	183.1	106.0
-40	-100	RPA-3	RPA-345	RPA-390	3.6	2.3	14.2	29.5	77.7	230.4	111.1
-85	-165	RPA-4	RPA-045	RPA-490	7.1	3.2	20.0	43.2	80.1	303.8	179.6

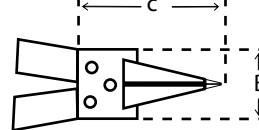
DIMENSIONAL ILLUSTRATIONS



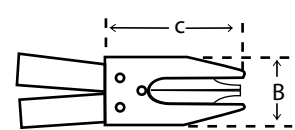
STANDARD & RATCHET PLIERS



UNSHIELDED

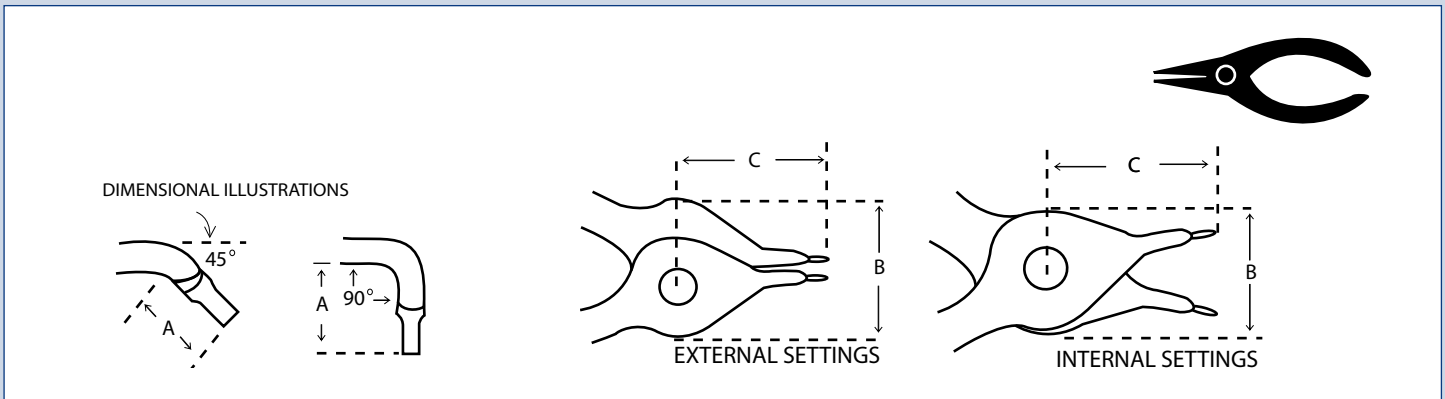


SHIELDED



DMR Internal Series Ratchet Pliers								GENERAL DIMENSIONS (inches)							
Ring Series /SizeRange				PLIERS W/O TIPS	STD. TIPS	45 TIP PLIERS	90 TIP PLIERS	TIP COLOR CODE	Weight lbs.	Tip Dia.	Tip Length A	CLOSED POSITION			
HO-BHO-VHO		HOI										Clearance		Length Std. Tip	Width
FROM	THRU	FROM	THRU									B	C		
-0181	-0237	-0206	-0250	0700				GOLD	.70	.093	15/32	1-3/8	3-13/32	10-5/8	3
-0244	-0300	-0262	-0300	0700				BLACK	.70	.108	15/32	1-3/8	3-13/32	10-5/8	3
-0306	-0400	-0315	-0400	0700				SILVER	.70	.120	15/32	1-3/8	3-13/32	10-5/8	3
-0306	-0600	-0315	-0400	0900	0900-12	0904-12	0909-12	BLACK	1.9	.120	1/2	1-3/4	3-1/2	16	3-7/8
-0625	-1000			1100	1100-15	1104-15	1109-15	BLACK	5.0	.150	1-5/32	1-3/4	4-5/16	28	6-1/2

DMR External Series Ratchet Pliers								GENERAL DIMENSIONS (inches)									
Ring Series /SizeRange						PLIERS W/O TIPS	STD. TIPS	45 TIP PLIERS	90 TIP PLIERS	TIP COLOR CODE	Weight lbs.	Tip Dia.	Tip Length A	CLOSED POSITION			
SH-BSH-VSH		SHI		SHR										Clearance		Length Std. Tip	Width
FROM	THRU	FROM	THRU	FROM	THRU									B	C		
				-0106	-0137	0800				GOLD	.70	.093	15/32	1-3/8	3-3/8	10-5/8	4-11/32
-0150	-0375	-0215	-0325			0800				SILVER	.70	.120	15/32	1-3/8	3-3/8	10-5/8	4-11/32
				-0150	-0175	1000		1004-10	1009-10	BLACK	1.9	.108	5/8	2-1/2	3-5/8	14-1/2	13
-0354	-0650	-0350	-0393	-0193	-0200	1000	1000-12	1004-12	0909-12	BLACK	1.9	.120	5/8	2-1/2	3-5/8	14-1/2	13
-0675	-0950					1200	1200-17	1204-17	1209-17	BLACK	2.2	.170	1-5/32	2-1/2	4-7/8	18-1/4	14



DMR Internal Series Pliers							GENERAL DIMENSIONS (inches)						
Ring Series /SizeRange				DMR PLIERS	45 TIP PLIERS	90 TIP PLIERS	Weight lbs.	Tip Dia.	Tip Length A	CLOSED POSITION			
HO-BHO-VHO		HOI								Clearance		Length Std. Tip	Width
FROM	THRU	FROM	THRU							B	C		
-0037	-0043	-0075	-0100	0120	0124	0129	.19	.038	9/32	1-3/16	1-5/8	5-5/8	1-3/4
-0045	-0102	-0106	-0137	0320	0324	0329	.19	.047	9/32	1-3/16	1-5/8	5-5/8	1-3/4
-0106	-0175	-0143	-0200	0340	0344	0349	.45	.070	11/32	1-7/16	1-7/8	7-7/8	3-5/16
-0181	-0206	-0206	-0212	0560	0564	0569	.55	.090	5/8	1-3/4	3	9-1/4	4-1/2

DMR External Series Pliers								GENERAL DIMENSIONS (inches)									
Ring Series /SizeRange								DMR PLIERS	45 TIP PLIERS	90 TIP PLIERS	Weight lbs.	Tip Dia.	Tip Length A	CLOSED POSITION			
SH-BSH-VSH		SHI		SHR		SHF								Clearance		Length Std. Tip	Width
FROM	THRU	FROM	THRU	FROM	THRU	FROM	THRU							B	C		
-0025	-0060	-0050	-0078	-0039	-0047	-0012	-0025	0120	0124	0129	.19	.038	9/32	1-3/8	1-5/8	5-5/8	2-9/16
-0068	-0087	-0081	-0100	-0050	-0066	-0031	-0037	0320	0324	0329	.19	.047	9/32	1-3/8	1-5/8	5-5/8	2-9/16
-0093	-00143	-0106	-0200	-0075	-0098	-0043	-0075	0340	0344	0349	.45	.070	11/32	1-11/16	1-7/8	7-7/8	3-15/16
-0150	-0200							0560	0560	0564	.55	.090	5/8	1-7/8	3	9-1/4	4-1/2

Heavy-Duty Retaining Ring Pliers are designed to perform with excessive use - up to 10 times longer than standard retaining ring pliers. The pliers are made of forged Chrome Vanadium steel, and the handles have a non-slip plastic coating. They feature inserted tips of high density drawn spring wire and a precised, smooth operating screw joint. Large contact faces on the tips help to eliminate distortion of the ring, and the slim head style allows for the use in confined areas.

HEAVY DUTY PLIERS-INTERNAL (Inch & Metric)												
Ring Series/Size Range										DMR PLIERS	90 TIP PLIERS	TIP DIAMETER (mm)
HO (in.)		HOI (in.)		DHO (Din 472 (mm))		DHT (DIN 984) (mm)		MHO (mm)				
FROM	THRU	FROM	THRU	FROM	THRU	FROM	THRU	FROM	THRU			
-0037	-0056	-0075	-0100	-0008	-0013			-0008	-0015	RPN-J0	RPN-J01	0.9
-0062	-0102	-0106	-0137	-0012	-0025	-0016	-0025	-0015	-0026	RPN-J1	RPN-J11	1.2
-0106	-0175	-0143	-0200	-0019	-0060	-0019	-0060	-0027	-0060	RPN-J2	RPN-J21	1.8
-0181	-0300	-0206	-0300	-0040	-0100	-0040	-0100	-0062	-0100	RPN-J3	RPN-J31	2.3

HEAVY DUTY PLIERS-EXTERNAL (Inch & Metric)												
Ring Series/Size Range										DMR PLIERS	90 TIP PLIERS	TIP DIAMETER (mm)
SH (in.)		SHI (in.)		SHR (in.)		DSH (DIN 471) DSF (DIN)		MSH (mm)				
FROM	THRU	FROM	THRU	FROM	THRU	FROM	THRU	FROM	THRU			
-0025	-0066	-0050	-0078	-0039	-0047	-0003	-0010	-0004	-0012	RPN-A0	RPN-A01	0.9
-0068	-0087	-0081	-0100	-0050	-0066	-0010	-0025	-0013	-0023	RPN-A1	RPN-A11	1.2
-0093	-0143	-0106	-0200	-0075	-0098	-0019	-0060	-0024	-0036	RPN-A2	RPN-A21	1.8
-0150	-0350	-0215	-0350			-0040	-0100	-0038	-0090	RPN-A3	RPN-A31	2.3

HEAVY DUTY PLIERS-GRIP RING (Inch & Metric)				
Ring Series/Size Range				DMR PLIERS
SHF (in.)		DSF (mm)		
FROM	THRU	FROM	THRU	
-0006	-0009	-0001.5	-0004	RPN-G0
-0012	-0015	-0004	-0007	RPN-G1
-0018	-0025	-0005	-0013	RPN-G2
-0031	-0075	0014	-0018	RPN-G3

Grip Ring Pliers are designed for SHF & DSF external (shaft) friction rings. The pliers are made of forged Chrome Vanadium steel with non-slip solid tips, and the handles have a non-slip plastic coating. Features a stop spring to prevent overspreading of the retaining ring.

SLIDE

SEAL

PROTECT

RETAIN

ALIGN



Dryslide™



Oil Seals



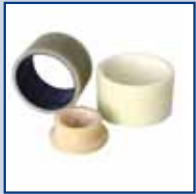
Tapered Caps & Plugs



Rotor Clip®



Woodruff Keys



Fiber-Lube™



O-Rings



Caps



Spirolox®



Slotted Shim



Linear Motion



Bearing Isolators



Plugs



Ring Masters®



Slotted Shim Kits



Powdered Metal



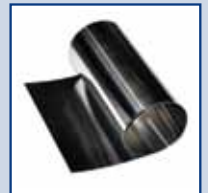
V-Rings



Finishing



Rotor Clamp®



Shim Stock Rolls



Solid Metal



Shaft Repair Sleeves



Electronics



Retaining Ring Kits & Packs



Keystock



DMR

DAEMAR® INC.

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