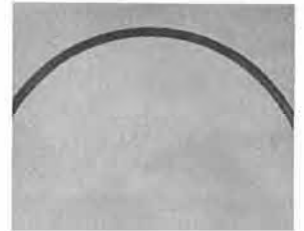
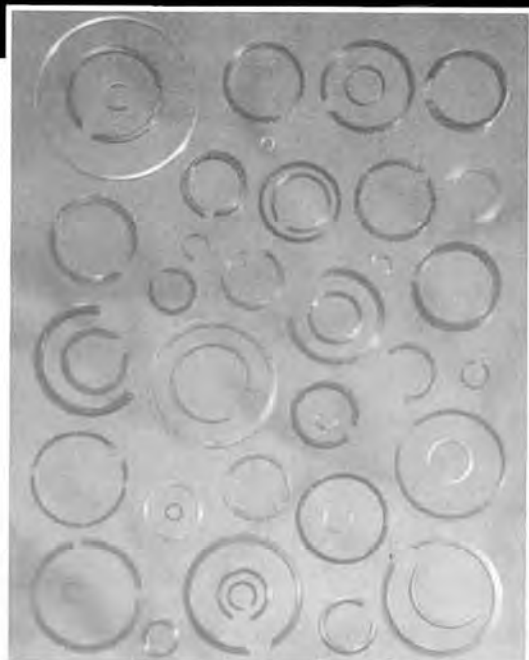




MANUFACTURERS OF ENGINEERING PRODUCTS



CATALOG OF STANDARD RETAINING RINGS



MANUFACTURERS OF ENGINEERING PRODUCTS

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INSPECTION PROCEDURES

Inside and Outside Diameters

Snap rings should be measured 90 degrees from the gap using Vernier Calipers or Go-No Go gauges.

Gap Dimensions

Ring gap would be measured as the distance between the smallest ends of the ring, measured with Vernier Calipers or Go-No Go gauges. The ring may also be measured with the ring assembled in a gauge at the groove diameter. One should note that the free or non-confined gap relationship to the free diameter of the ring varies by the calculation of PI (approx. 3.1416) times the variation in the free ring diameter.

Gap or Cutoff Angle

The gap or cutoff angle may be measured from the cutoff to the center of the ring, or the total included angle. One should remember the purpose of the gap or cutoff angle is to facilitate the removal, or to disassemble the ring from the groove.

Material Width

The radial section of the ring material measured with Vernier Calipers, usually at 90 degrees or 180 degrees from the gap.

Material Thickness

The axial section of the ring material measured with Ball or Pointed Micrometers, usually at 90 degrees or 180 degrees from the gap.

Parallelism

The difference in the axial thickness of the ring between the outside diameter and the inside diameter measured with ball or pointed micrometers.

Helix

Often called *free height*, the ring is measured between parallel plates or on a surface plate with a height gauge.

Dish

The ring is measured on a surface plate using a feeler gauge.

Axial Clearance

The ring is measured between parallel plates under a 10 pound load.

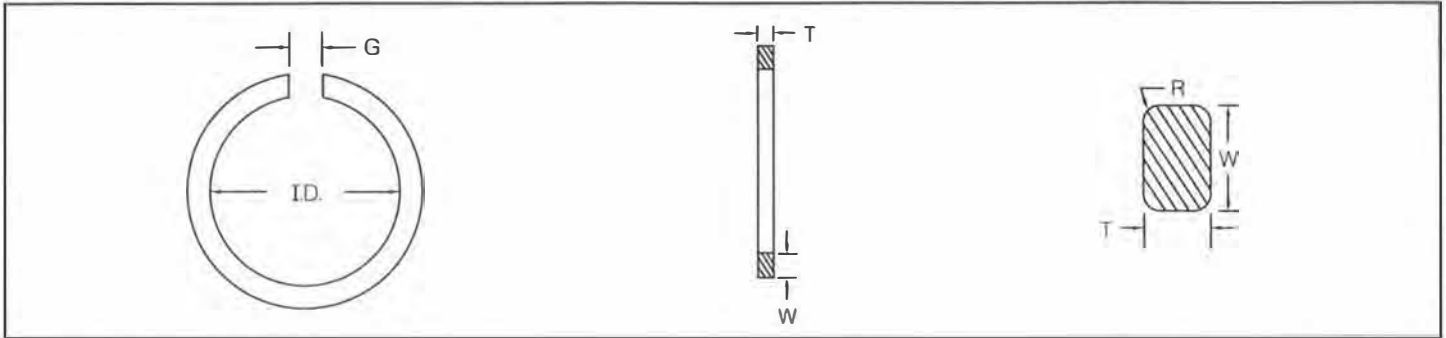
Radial Gap or Kink

Measured with the ring assembled in a gauge equal to the groove diameter and using a feeler gauge.

EXTERNAL RETAINING RINGS FOR GROOVES IN OUTER TRACKS OF BALL OR ROLLER BEARINGS

Material: Steel SAE 1060-1070

Hardness: R/C 40-50



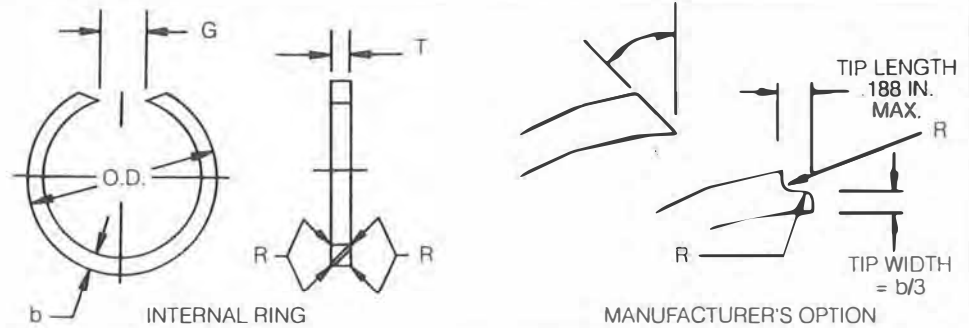
PETERSON PART NO.	BEARING NUMBER				BEARING O.D.		GROOVE DIA. ±.003	ASSEM- BLED O.D.	RING DIMENSIONS			GAP G	RADIUS MAX. R	WEIGHT PER M	REPLACES EATON PART NO.	
	EXTRA LIGHT	LIGHT	MED.	HEAVY	(MM) D	(INCHES) D			FREE I.D.		WIDTH W ±.003					THICK. T ±.002
									I.D.	TOL.						
0R		37-38			22	.8661	.8125	1.000	.799	+0.00 -.015	.094		1/8 MAX.	2.7	1957	
1R		200			30	1.1811	1.109	1.359	1.094					5.6	743-4	
2R	102	201			32	1.2598	1.187	1.437	1.172					6.0	781-2	
3R	103	202	300		35	1.3780	1.306	1.547	1.291	+0.00 -.020	.125		3/32 ±1/32	6.6	2046	
4R			301		37	1.4567	1.369	1.609	1.354					7.0	2976-1	
5R		203			40	1.5748	1.500	1.750	1.485			.042		7.8	939-2	
6R	104		302		42	1.6535	1.565	1.812	1.550					7.8	954	
7R	105	204	303		47	1.8504	1.756	2.062	1.741					11.0	1039	
8R		205	304		52	2.0472	1.958	2.265	1.943					12.1	1117-2	
9R	106				55	2.1654	2.071	2.375	2.056					12.8	3918-1	
10R	107	206	305	403	62	2.4409	2.347	2.656	2.322	+0.00 -.030	.156		1/8 ±1/32	21.9	1245-6	
11R	108				68	2.6772	2.552	2.922	2.527					29.1	2261	
12R		207	306	404	72	2.8346	2.709	3.078	2.684					30.8	1356-7	
13R	109				75	2.9528	2.828	3.203	2.803			.065		32.1	3919-1	
14R	110	208	307	405	80	3.1496	3.024	3.406	2.999					34.2	1438-5	
15R		209			85	3.3465	3.221	3.594	3.196					36.7	1490-5	
16R	111	210	308	406	90	3.5433	3.417	3.797	3.392	+0.00 -.046	.188		5/32 ±3/64	56.5	1534-4	
17R	112				95	3.7402	3.615	3.984	3.590					59.7	3920-1	
18R	113	211	309	407	100	3.9370	3.811	4.187	3.786			.095		62.1	1598-1	
19R	114	212	310	408	110	4.3307	4.205	4.578	4.180					68.7	1642-3	
20R	115				115	4.5276	4.402	4.781	4.377					72.2	3126	
21R		213	311	409	120	4.7244	4.536	5.094	4.506	+0.00 -.062			3/16 ±1/16	128.8	1675-4	
22R	116	214			125	4.9213	4.733	5.297	4.703					136.0	1693	
23R	117	215	312	410	130	5.1181	4.930	5.500	4.900					139.5	1706-3	
24R	118	216	313	411	140	5.5118	5.324	5.890	5.294					150.4	1730-5	
25R	119				145	5.7087	5.521	6.078	5.491	+0.00 -.093	.281	.109	9/32 ±1/16	155.0	3921-1	
26R	120	217	314	412	150	5.9055	5.718	6.281	5.688					160.9	1744-5	
27R	121	218	315	413	160	6.2992	6.111	6.672	6.081					171.7	1764-1	
28R	122	219	316		170	6.6929	6.443	7.187	6.413					267.4	1773-2	
29R	124	220	317	414	180	7.0866	6.837	7.594	6.807					284.4	1787-1	
30R		221	318	415	190	7.4803	7.230	7.984	7.200	+0.00 -.125	.375	.120	3/8 ±1/16	300.1	1849-1	
31R	126	222	319	416	200	7.8740	7.624	8.375	7.594					309.1	2165-2	
32R	128			417	210	8.2677	8.018	8.766	7.987					319.0	3922-1	
33R		224	320		215	8.4646	8.215	8.969	8.184					338.4	3923-1	
34R	130		321	418	225	8.8583	8.6083	9.328	8.578					349.0	3924-1	
35R		226			230	9.0551	8.8051	9.562	8.775	+0.00 -.156			15/32 ±3/32	362.0	3925-1	
36R	132		322		240	9.4488	9.1988	9.953	9.168					375.4	3926-1	

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INTERNAL RETAINING RINGS

Material: Steel SAE 1060-1070

Hardness: R/C 42-50



PETERSON PART NO.	DH HOUSING DIAMETER			GROOVE DIMENSIONS				RING DIMENSIONS				FREE GAP G		RING THRUST CAPACITY LBS.	REPLACES EATON PART NO.
	INCHES		MM	DIAMETER		DEPTH B NOM.	FREE D.D.		THICK T ±.002	MIN.	MAX.				
	DEC.	FRAC.	EQUIV.	DG	TOL.		WIDTH X	O.D.				TOL.	WIDTH b		
711J	.875	7/8	22.23	.919	±.003	.046	.022	.934	±.003	.042	.281	.438	1130	NAN87	
712J	.901		22.88	.945			.024	.961					.078	1260	NAN90
713J	.938	15/16	23.82	.986			.026	1.003					±.003	1360	NAN93
714J	1.000	1	25.40	1.052	±.003	.056	.028	1.070	±.003	.050	.375	.562	1470	NAN100	
715J	1.023		25.98	1.075			.030	1.094					.109	1500	NAN102
716J	1.062	1-1/16	26.97	1.114			.032	1.134					±.003	1780	NAN106
717J	1.125	1-1/8	28.58	1.181	±.005	.068	.034	1.202	±.003	.062	.437	.687	1880	NAN112	
718J	1.188	1-3/16	30.17	1.248			.036	1.270					±.003	1990	NAN118
719J	1.250	1-1/4	31.75	1.314			.038	1.337					.125	2090	NAN125
720J	1.312	1-5/16	33.32	1.380	±.005	.086	.040	1.404	±.003	.050	.375	.562	2200	NAN131	
721J	1.375	1-3/8	34.93	1.447			.042	1.472					±.005	2300	NAN137
722J	1.438	1-7/16	36.52	1.510			.044	1.535					.156	2460	NAN143
723J	1.456		36.08	1.532	±.005	.068	.046	1.557	±.005	.062	.437	.687	2490	NAN145	
724J	1.500	1-1/2	38.10	1.576			.048	1.607					±.005	2560	NAN150
725J	1.562	1-9/16	39.67	1.642			.050	1.668					.171	3060	NAN156
726J	1.625	1-5/8	41.28	1.709	±.005	.086	.042	1.736	±.005	.062	.437	.687	3190	NAN162	
727J	1.653		41.99	1.737			.044	1.765					±.005	3240	NAN165
728J	1.688	1-11/16	42.87	1.776			.046	1.804					.156	3370	NAN168
729J	1.750	1-3/4	44.45	1.842	±.005	.086	.048	1.870	±.005	.062	.437	.687	3510	NAN175	
730J	1.812	1-13/16	46.02	1.904			.050	1.933					±.005	3640	NAN181
731J	1.850		47.00	1.946			.052	1.975					.171	3710	NAN185
732J	1.875	1-7/8	47.63	1.971	±.006	.086	.054	2.000	±.005	.078	.500	.750	3760	NAN187	
733J	1.938	1-15/16	49.22	2.038			.056	2.068					±.005	3870	NAN193
734J	1.968	1-31/32	49.99	2.068			.058	2.098					.187	3935	NAN196
735J	2.000	2	50.80	2.100	±.006	.086	.052	2.131	±.005	.078	.500	.750	4000	NAN200	
736J	2.062	2-1/16	52.37	2.166			.054	2.197					±.005	4380	NAN206
737J	2.125	2-1/8	53.98	2.229			.056	2.260					.187	5140	NAN212
738J	2.188	2-3/16	55.55	2.296	±.006	.086	.058	2.331	±.005	.078	.500	.750	5470	NAN218	
739J	2.250	2-1/4	57.15	2.358			.060	2.393					±.005	5630	NAN225
740J	2.312	2-5/16	58.72	2.424			.062	2.459					.187	5790	NAN231
741J	2.375	2-3/8	60.33	2.487	±.006	.086	.060	2.523	±.005	.078	.500	.750	5950	NAN237	
742J	2.440		61.98	2.556			.058	2.592					±.005	6270	NAN244
743J	2.500	2-1/2	63.50	2.616			.062	2.653					.187	6350	NAN250
744J	2.531	2-17/32	64.28	2.651	±.006	.086	.062	2.688	±.005	.093	.562	.812	6510	NAN253	
745J	2.562	2-9/16	65.07	2.686			.103	2.726					±.005	8400	NAN256
746J	2.625	2-5/8	66.67	2.750			.062	2.790					.187	8650	NAN262
747J	2.688	2-11/16	68.27	2.816	±.006	.086	.062	2.856	±.005	.093	.562	.812	8800	NAN268	

All Eaton names and numbers are for identification purposes only. In no way are we implying that our parts are Eaton parts.

INTERNAL RETAINING RINGS (CONTINUED)

Material: Steel SAE 1060-1070

Hardness: R/C 42-50

PETERSON PART NO.	D _H HOUSING DIAMETER			GROOVE DIMENSIONS				RING DIMENSIONS				FREE GAP G		RING THRUST CAPACITY LBS.	REPLACES EATON PART NO.					
	INCHES		MM EQUIV.	DIAMETER		WIDTH X	DEPTH B NOM.	FREE O.D.		WIDTH b ±.005	THICK. T ±.002	MIN.	MAX.							
	DEC.	FRAC.		D _G	TOL.			O.D.	TOL.											
748J	2.717		68.83	2.842	±.006	.103 +.005 -.000	.064	2.882	+0.046	.187	.093	.562	.812	8875	NAN271					
749J	2.750	2-3/4	69.85	2.878			2.918	+.062	-0.000					.218	.078	-0.000	.718	1.062	8950	NAN275
750J	2.813	2-13/16	71.45	2.945			.066												2.985	+.093
751J	2.834		72.00	2.966			3.006	+.078	-0.000					.281	.125	-0.000	1.000	1.500	9250	
752J	2.875	2-7/8	73.00	3.011		.068	3.056			+.125	-0.000	.312	.125						1.125	1.812
753J	3.000	3	76.20	3.136		.070	3.181	+.156	-0.000					.343	.156	1.125	1.812	9550		
754J	3.062	3-3/16	77.78	3.202		3.247	+.187			-0.000	.375	.187	-0.000					1.375	2.250	10470
755J	3.125	3-1/8	79.38	3.265		.072		3.311	+.187					-0.000	.437	.187	1.625			2.500
756J	3.156	3-5/32	80.16	3.296		3.342	+.209	-0.000		.500	.187	-0.000	1.750					2.625	10800	
757J	3.250	3-1/4	82.55	3.394		.074			3.442					+.209	-0.000	.500	.187		1.750	2.625
758J	3.346		85.00	3.490		3.539	+.209	-0.000	.500	.187	-0.000	1.750	2.625					11450		
759J	3.469	3-15/32	88.00	3.613		.076								3.663	+.209	-0.000	.500	.187	1.750	2.625
760J	3.500	3-1/2	88.90	3.648		3.700	+.209	-0.000	.500	.187	-0.000	1.750	2.625	11970						
761J	3.543		90.00	3.691		.078								3.745	+.209	-0.000	.500	.187	1.750	2.625
762J	3.562	3-9/16	90.47	3.710		3.766	+.209	-0.000	.500	.187	-0.000	1.750	2.625	12190						
763J	3.625	3-5/8	92.08	3.773		.076								3.831	+.209	-0.000	.500	.187	1.750	2.625
764J	3.750	3-3/4	95.25	3.902		3.962	+.209	-0.000	.500	.187	-0.000	1.750	2.625	12600						
765J	3.875	3-7/8	98.42	4.027		.078								4.089	+.209	-0.000	.500	.187	1.750	2.625
766J	3.938	3-15/16	100.00	4.094		4.156	+.209	-0.000	.500	.187	-0.000	1.750	2.625	13230						
767J	4.000	4	101.60	4.156		.080								4.221	+.209	-0.000	.500	.187	1.750	2.625
768J	4.125	4-1/8	104.77	4.285	4.355	+.209	-0.000	.500	.187	-0.000	1.750	2.625	14110	NAN412						
769J	4.250	4-1/4	107.95	4.410	.082								4.485	+.209	-0.000	.500	.187	1.750	2.625	14540
770J	4.330		110.00	4.490	4.565	+.209	-0.000	.500	.187	-0.000	1.750	2.625	14960							NAN433
771J	4.436	4-7/16	112.69	4.596	.084								4.670	+.209	-0.000	.500	.187	1.750	2.625	15170
772J	4.500	4-1/2	114.30	4.664	4.744	+.209	-0.000	.500	.187	-0.000	1.750	2.625	15390							NAN450
773J	4.825	4-5/8	117.48	4.795	.085								4.875	+.209	-0.000	.500	.187	1.750	2.625	15830
774J	4.750	4-3/4	120.65	4.926	.088	5.011	+.209	-0.000	.500	.187	1.750	2.625	16250							NAN475
775J	5.000	5	127.00	5.180	.090	5.265							+.209	-0.000	.500	.187	1.750	2.625	17110	NAN500
776J	5.250	5-1/4	133.35	5.435	.092	5.530	+.209	-0.000	.500	.187	1.750	2.625							20590	NAN525
777J	5.375	5-3/8	136.53	5.565	.095	5.660							+.209	-0.000	.500	.187	1.750	2.625	21110	NAN537
778J	5.500	5-1/2	140.00	5.696	.098	5.796	+.209	-0.000	.500	.187	1.750	2.625							21790	NAN550
779J	5.750	5-3/4	146.05	5.950	.100	6.050							+.209	-0.000	.500	.187	1.750	2.625	22570	NAN575
780J	6.000	6	152.40	6.204	.102	6.309	+.209	-0.000	.500	.187	1.750	2.625							23550	NAN600
781J	6.250	6-1/4	158.75	6.458	.104	6.568							+.209	-0.000	.500	.187	1.750	2.625	29420	NAN625
782J	6.500	6-1/2	165.00	6.712	.106	6.832	+.209	-0.000	.500	.187	1.750	2.625							30610	NAN650
783J	6.625	6-5/8	168.27	6.845	.110	6.975							+.209	-0.000	.500	.187	1.750	2.625	31400	NAN662
784J	6.750	6-3/4	171.45	6.970	.110	7.100	+.209	-0.000	.500	.187	1.750	2.625							32640	NAN675
785J	7.000	7	177.80	7.220	.110	7.350							+.209	-0.000	.500	.187	1.750	2.625	34850	NAN700
786J	7.250	7-1/4	184.15	7.500	.110	7.630	+.209	-0.000	.500	.187	1.750	2.625							38060	NAN725
787J	7.500	7-1/2	190.50	7.750	.125	7.890							+.209	-0.000	.500	.187	1.750	2.625	39450	NAN750
788J	8.000	8	203.20	8.250	.125	8.400	+.209	-0.000	.500	.187	1.750	2.625							41960	NAN800
789J	8.250	8-1/4	209.55	8.540	.125	8.665							+.209	-0.000	.500	.187	1.750	2.625	43320	NAN825
790J	8.500	8-1/2	215.90	8.790	.145	8.915	+.209	-0.000	.500	.187	1.750	2.625							44710	NAN850
791J	8.750	8-3/4	222.25	9.080	.145	9.205							+.209	-0.000	.500	.187	1.750	2.625	48900	NAN875
792J	9.000	9	228.60	9.330	.145	9.455	+.209	-0.000	.500	.187	1.750	2.625							49740	NAN900
793J	9.055		230.00	9.384	.145	9.509							+.209	-0.000	.500	.187	1.750	2.625	50050	NAN905
794J	9.500	9-1/2	241.30	9.830	.145	9.955	+.209	-0.000	.500	.187	1.750	2.625							52520	NAN950
795J	9.840	9-27/32	250.00	10.170	.145	10.295							+.209	-0.000	.500	.187	1.750	2.625	53780	NAN984
796J	10.000	10	254.00	10.330	.145	10.455	+.209	-0.000	.500	.187	1.750	2.625							55400	NAN1000

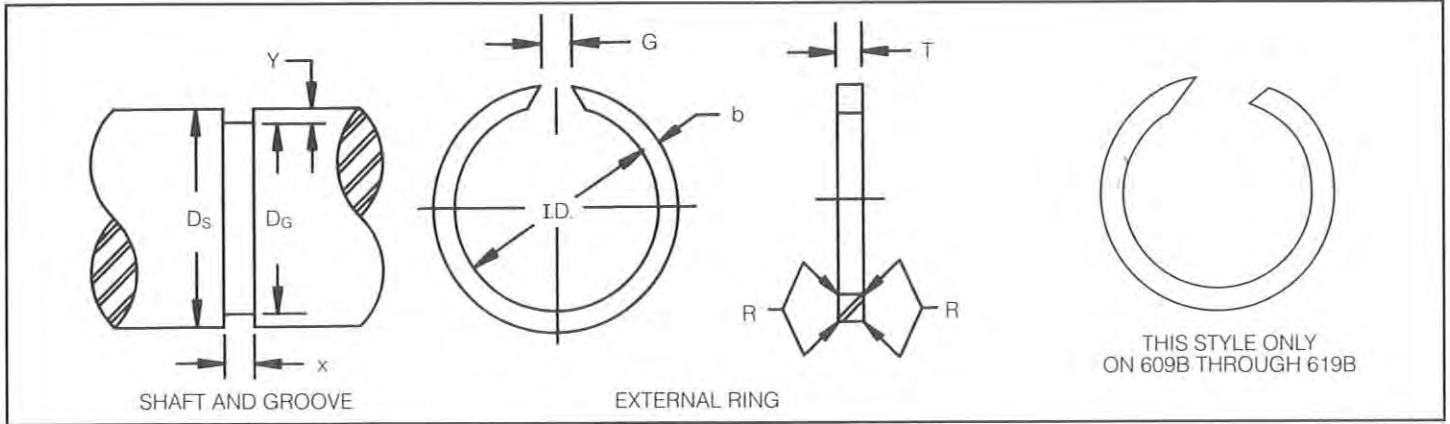
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EXTERNAL RETAINING RINGS FOR SHAFT APPLICATIONS

Material: Steel SAE 1060-1070

Hardness: R/C 42-53



PETERSON PART NO.	D _s SHAFT DIAMETER/ BEARING BORE			GROOVE DIMENSIONS				RING DIMENSIONS				FREE GAP G		RING THRUST CAPACITY LBS.	REPLACES EATON PART NO.																																																																																
	INCHES		MM EQUIV.	DIAMETER		WIDTH X	DEPTH Y NOM.	FREE DIA.		WIDTH b	THICK T ±.002	MIN.	MAX.																																																																																		
	DEC.	FRAC.		D _g	TOL.			I.D.	TOL.																																																																																						
609B	.500	1/2	12.70	.474	±.002	.039	.013	.464	+.000	.048	.035	.062	.218	460	XAN50																																																																																
610B	.551		14.00	.524				+.003								.014	.514	-.025	±.003	.062	.042	.093	.250	480	XAN55																																																																						
611B	.562	9/16	14.27	.534													-.000									.015	.524	.062	±.003	.042	.042	.093	.250	490	XAN56																																																												
612B	.594	19/32	15.09	.566																							.016									.016	.555	±.003	.062	.042	.042	.093	.250	510	XAN59																																																		
613B	.625	5/8	15.88	.597																																	.017									.017	.586	±.003	.062	.042	.042	.093	.250	520	XAN62																																								
614B	.669		17.00	.640																																											.018									.018	.630	±.003	.062	.042	.042	.093	.250	570	XAN66																														
615B	.688	11/16	17.48	.656																																																					.020									.020	.644	±.003	.062	.042	.042	.093	.250	700	XAN68																				
616B	.750	3/4	19.05	.716																																																															+.003									.021	.703	±.003	.062	.042	.042	.093	.250	820	XAN75										
617B	.781	25/32	19.84	.745																																																																									-.000									.022	.733	±.003	.062	.042	.042	.093	.250	950	XAN78
618B	.812	13/16	20.62	.776																																																																																			.022								
619B	.875	7/8	22.23	.835	+.003	.023	.820		±.003	.062	.042	.042	.093	.250	1100																																																																																
620B	.938	15/16	23.83	.896			-.000	.025								.881		±.003	.062	.042	.042	.093	.250	1130	XAN93																																																																						
621B	.984	63/64	25.00	.940												.025	.025									.925		±.003	.062	.042	.042	.093	.250	1170	XAN98																																																												
622B	1.000	1	25.40	.956																						±.003	.026									.941		±.000	.062	.042	.042	.093	.250	1200	XAN100																																																		
623B	1.023		25.98	.977																																.026	.026									.962		-.031	.062	.042	.042	.093	.250	1300	XAN102																																								
624B	1.062	1-1/16	26.97	1.016																																										.028	.028									1.000		±.003	.062	.042	.042	.093	.250	1600	XAN106																														
625B	1.125	1-1/8	28.58	1.075																																																				.028	.028									.1060		±.003	.062	.042	.042	.093	.250	1880	XAN112																				
626B	1.188	1-3/16	30.18	1.136																																																														+.004	.031									.1121		±.003	.062	.042	.042	.093	.250	1990	XAN118										
627B	1.250	1-1/4	31.75	1.194																																																																								-.000	.031									.1179		±.003	.062	.042	.042	.093	.250	2090	XAN125
628B	1.312	1-5/16	33.32	1.250																																																																																		.033	.033								
629B	1.375	1-3/8	34.93	1.309	.033	.033			.1291	±.003	.062	.042	.042	.093	.250																																																																																
630B	1.438	1-7/16	36.53	1.370			.034	.034	.1351									±.003	.062	.042	.042	.093	.250	2460	XAN143																																																																						
631B	1.500	1-1/2	38.10	1.430					.035							.035	.1408											±.003	.062	.042	.042	.093	.250	2500	XAN150																																																												
632B	1.562	1-9/16	39.67	1.490													±.004									.036	.1467											+.000	.062	.042	.042	.093	.250	3060	XAN156																																																		
633B	1.625	1-5/8	41.28	1.551																							.037									.037	.1527											-.046	.062	.042	.042	.093	.250	3190	XAN162																																								
634B	1.687	1-11/16	42.85	1.611																																	.038									.038	.1581											±.005	.062	.042	.042	.093	.250	3370	XAN168																														
635B	1.750	1-3/4	44.45	1.670																																											.040									.040	.1640											±.005	.062	.042	.042	.093	.250	3510	XAN175																				
636B	1.771		44.98	1.687																																																					+.004									.042	.1657											±.005	.062	.042	.042	.093	.250	3550	XAN177										
637B	1.812	1-13/16	46.02	1.728																																																															-.000									.042	.1698											±.005	.062	.042	.042	.093	.250	3640	XAN181
638B	1.875	1-7/8	47.63	1.789																																																																									.043									.043	.1759								
639B	1.969	1-31/32	48.99	1.879	.045	.045				.1849	±.005	.062	.042	.042	.093																																																																								.250								
640B	2.000	2	50.80	1.910			.045	.045		.1880								±.005	.062	.042	.042	.093	.250	4010	XAN200																																																																						
641B	2.062	2-1/16	52.37	1.966					.048	.048						.1936												±.005	.062	.042	.042	.093	.250	5350	XAN206																																																												
642B	2.125	2-1/8	53.98	2.027												+.005	.049									.1997												±.005	.062	.042	.042	.093	.250	5470	XAN212																																																		
643B	2.156	2-5/32	54.76	2.056																						-.000	.050									.2026												±.005	.062	.042	.042	.093	.250	5680	XAN215																																								

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EXTERNAL RETAINING RINGS FOR SHAFT APPLICATIONS (CONTINUED)

Material: Steel SAE 1060-1070

Hardness: R/C 42-53

PETERSON PART NO.	D _s SHAFT DIAMETER/ BEARING BORE			GROOVE DIMENSIONS				RING DIMENSIONS				FREE GAP G		RING THRUST CAPACITY LBS.	REPLACES EATON PART NO.
	INCHES		MM EQUIV.	DIAMETER		WIDTH X	DEPTH Y NOM.	FREE DIA.		WIDTH b	THICK T ±.002	MIN.	MAX.		
	DEC.	FRAC.		D _g	TOL.			I.D.	TOL.						
644B	2.250	2-1/4	57.15	2.146	±.006	.086 +.005 -.000	.052	2.116	+0.000 -.046	.156 ±.005	.078	.156	.375	5790	XAN225
645B	2.312	2-5/16	58.72	2.204			.054	2.174						6300	XAN231
646B	2.375	2-3/8	60.33	2.265			.055	2.235						6400	XAN237
647B	2.437	2-7/16	61.90	2.325			.056	2.295						6500	XAN243
648B	2.500	2-1/2	63.50	2.386			.057	2.356						6600	XAN250
649B	2.559		65.00	2.443			.058	2.413						6700	XAN255
650B	2.625	2-5/8	66.68	2.505			.060	2.475						6800	XAN262
651B	2.687	2-11/16	68.25	2.565			.061	2.535						6900	XAN268
652B	2.750	2-3/4	69.85	2.624			.063	2.594						8460	XAN275
653B	2.875	2-7/8	73.03	2.743			.066	2.713						8840	XAN287
654B	2.937	2-15/16	74.60	2.801			.068	2.771						9030	XAN293
655B	3.000	3	76.20	2.860			.070	2.830						9230	XAN300
656B	3.062	3-1/16	77.77	2.920			.071	2.890						9420	XAN306
657B	3.125	3-1/8	79.38	2.981			.072	2.951						9630	XAN312
658B	3.156	3-5/32	80.16	3.010			.073	2.980						9800	XAN315
659B	3.250	3-1/4	82.55	3.100	.075	3.070	10000	XAN325							
660B	3.344	3-11/32	84.94	3.190	.077	3.160	10290	XAN334							
661B	3.437	3-7/16	87.30	3.281	.078	3.251	10570	XAN343							
662B	3.500	3-1/2	88.90	3.340	.080	3.305	11970	XAN350							
663B	3.543		90.00	3.381	.081	3.346	12120	XAN354							
664B	3.625	3-5/8	92.08	3.458	.083	3.423	12300	XAN362							
665B	3.687	3-11/16	93.65	3.517	.085	3.482	12600	XAN368							
666B	3.750	3-3/4	95.25	3.576	.087	3.541	12800	XAN375							
667B	3.875	3-7/8	98.43	3.697	.089	3.657	13200	XAN387							
668B	3.938	3-15/16	100.02	3.758	.090	3.713	13470	XAN393							
669B	4.000	4	101.60	3.816	.092	3.771	13650	XAN400							
670B	4.250	4-1/4	107.95	4.066	.092	4.016	15000	XAN425							
671B	4.375	4-3/8	111.13	4.191	.092	4.141	15500	XAN437							
672B	4.500	4-1/2	114.30	4.310	.095	4.255	16200	XAN450							
673B	4.750	4-3/4	120.65	4.550	.100	4.495	16480	XAN475							
674B	5.000	5	127.00	4.790	.105	4.730	17110	XAN500							
675B	5.250	5-1/4	133.35	5.030	.110	4.970	20590	XAN525							
676B	5.500	5-1/2	139.70	5.266	.117	5.206	21790	XAN550							
677B	5.750	5-3/4	146.05	5.506	.122	5.446	23010	XAN575							
678B	5.900		149.86	5.656	.122	5.600	23625	XAN590							
679B	6.000	6	152.40	5.746	.127	5.687	24000	XAN600							
680B	6.250	6-1/4	158.75	5.986	.132	5.916	30310	XAN625							
681B	6.500	6-1/2	165.10	6.226	.137	6.151	33760	XAN650							
682B	6.750	6-3/4	171.45	6.466	.142	6.386	36840	XAN675							
683B	7.000	7	177.80	6.706	.147	6.621	39920	XAN700							
684B	7.250	7-1/4	184.15	6.930	.160	6.840	43100	XAN725							
685B	7.500	7-1/2	190.50	7.180	.160	7.090	44500	XAN750							
686B	8.000	8	203.20	7.660	.160	7.560	45500	XAN800							
687B	8.500	8-1/2	215.90	8.160	.170	8.050	46700	XAN850							
688B	9.000	9	228.60	8.660	.170	8.545	49900	XAN900							
689B	9.250	9-1/4	234.95	8.910	.170	8.800	51000	XAN925							
690B	9.500	9-1/2	241.30	9.160	.170	9.040	52590	XAN950							
691B	10.000	10	254.00	9.660	.170	9.535	55600	XAN1000							

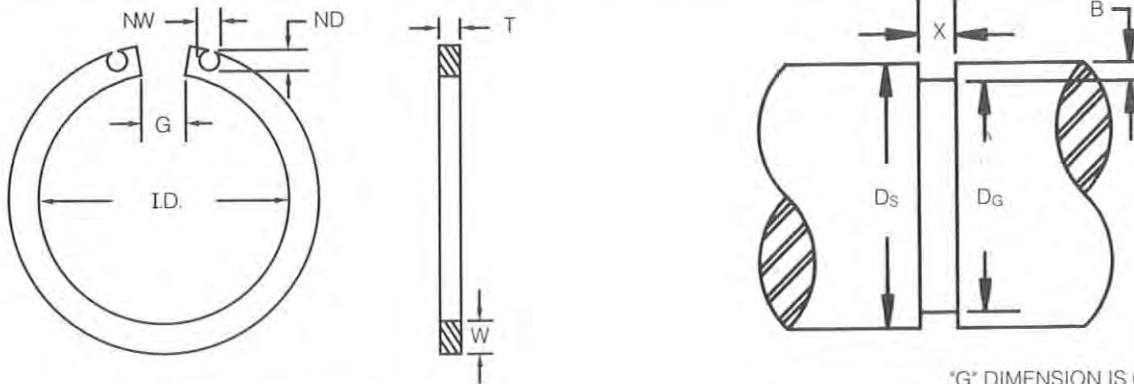
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EXTERNAL NOTCHED RINGS FOR SHAFT APPLICATIONS

Material: Steel SAE 1060-1070

Hardness: R/C 47-53



G DIMENSION IS GAP AT GROOVE

PETERSON PART NO.	D _S SHAFT DIAMETER			GROOVE DIMENSIONS			RING DIMENSIONS				GAP G TOL. ±1/16"	NOTCH DIM.		SAFE WORKING THRUST LOAD	REPLACES EATON PART NO.
	INCHES		MM EQUIV.	DIA. D _G ±.006	WIDTH X	NOM. DEPTH B	FREE DIAMETER		WIRE SECTION			DEPTH ND ±.020	WIDTH NW +.015 -.000		
	DEC.	FRAC.					I.D.	TOL.	W ±.005	T ±.002					
201A	2.062	2-1/16	52.37	1.946	.086 +0.005 -0.000	.058	1.926	+0.000 -0.060	.187	.078	.375	.093	5400	EN206	
202A	2.125	2-1/8	53.98	2.003		.061	1.983							5530	EN212
203A	2.156	2-5/32	54.76	2.032		.062	2.012							5680	EN215
204A	2.250	2-1/4	57.15	2.120		.065	2.100							6200	EN225
205A	2.312	2-5/16	58.73	2.178		.067	2.158							6580	EN231
206A	2.375	2-3/8	60.33	2.239		.068	2.219							6870	EN237
207A	2.438	2-7/16	61.93	2.299		.069	2.279							7130	EN243
208A	2.500	2-1/2	63.50	2.360		.070	2.340							7430	EN250
209A	2.559		65.00	2.419			2.399							7590	EN255
210A	2.625	2-5/8	66.68	2.481		.072	2.461							8020	EN262
211A	2.688	2-11/16	68.28	2.541	.073	2.521	8320	EN268							
212A	2.750	2-3/4	69.85	2.602	.074	2.577	+0.000 -0.080	.218	.093	.500	.110	8650	EN275		
213A	2.875	2-7/8	73.03	2.721	.077	2.696						9330	EN287		
214A	2.938	2-15/16	74.63	2.779	.079	2.754						9840	EN293		
215A	3.000	3	76.20	2.838	.081	2.813						10310	EN300		
216A	3.062	3-1/16	77.77	2.898	.082	2.873						10530	EN306		
217A	3.125	3-1/8	79.38	2.957	.084	2.932						11170	EN312		
218A	3.156	3-5/32	80.16	2.986	.085	2.961						11370	EN315		
219A	3.250	3-1/4	82.55	3.076	.087	3.051						12000	EN325		
220A	3.346	3-11/32	85.00	3.166	.090	3.141						12810	EN334		
221A	3.438	3-7/16	87.33	3.257		3.232						13100	EN343		
222A	3.500	3-1/2	88.90	3.316	.092	3.286	+0.000 -0.093	.250	.109	.562	.125	13640	EN350		
223A	3.543		90.00	3.357	.093	3.327						14000	EN354		
224A	3.625	3-5/8	92.08	3.435	.095	3.405						14580	EN362		
225A	3.688	3-11/16	93.68	3.493	.097	3.463						14650	EN368		
226A	3.750	3-3/4	95.25	3.552	.099	3.522						15800	EN375		
227A	3.875	3-7/8	98.43	3.673	.101	3.643						16600	EN387		
228A	3.938	3-15/16	100.03	3.734	.102	3.704						17040	EN393		
229A	4.000	4	101.60	3.792	.104	3.762						17640	EN400		
230A	4.250	4-1/4	107.95	4.065	.092	4.025						16600	EN425		
231A	4.375	4-3/8	111.13	4.190		4.150						17100	EN437		
232A	4.500	4-1/2	114.30	4.310	.095	4.270	.312	.625	.180	18230	EN450				
233A	4.750	4-3/4	120.65	4.550	.100	4.510				19160	EN475				
234A	5.000	5	127.00	4.790	.105	4.750				22280	EN500				

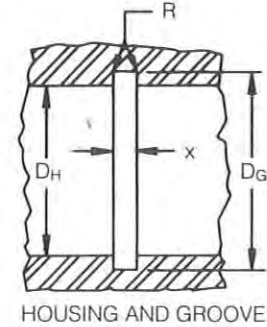
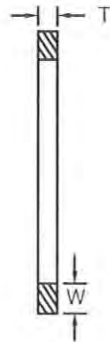
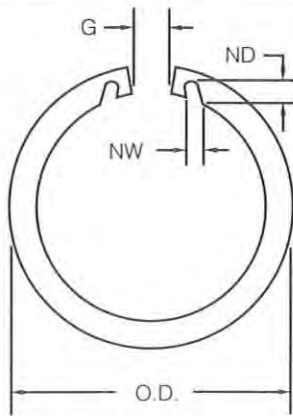
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INTERNAL NOTCHED RINGS FOR HOUSING APPLICATIONS

Material: Steel SAE 1060-1070

Hardness: R/C 45-52



HOUSING AND GROOVE

G DIMENSION IS GAP AT GROOVE

PETERSON PART NO.	GROOVE DIMENSIONS			RING DIMENSIONS				MIN. GAP G	NOTCH DIM.		THRUST LOAD LBS.	DH HOUSING DIAMETER			REPLACES EATON PART NO.	
	DIAMETER		WIDTH X	DEPTH NOM.	FREE O.D.	DIA. TOL.	WIRE SECTION		DEPTH ND ±.020	WIDTH NW +.015 -.000		INCHES		MM EQUIV.		
	D _G	TOL.					W ±.005					T ±.002	DEC.			FRAC.
301H	1.858	±.005	.068 +.004 -.000	.054	1.878	+.070 -.000	.156	.062	.370	.078	4100	1.750	1-3/4	44.45	IN175	
302H	1.922			.055	1.942							4280	1.812	1-13/16	46.02	IN181
303H	1.962			.056	1.982							4380	1.850		47.00	IN185
304H	1.989			.057	2.014							4650	1.875	1-7/8	47.63	IN187
305H	2.056			.059	2.081							5000	1.938	1-15/16	49.20	IN193
306H	2.122			.061	2.147							5350	2.000	2	50.80	IN200
307H	2.171	±.005	.086 +.005 -.000	.062	2.201	+.080 -.000	.171	.078	.420	.085	.093	2.047	2-3/64	52.00	IN206	
308H	2.186			2.201	6490							2.062	2-1/16	52.37	IN206	
309H	2.251			.063	2.271							6810	2.125	2-1/8	53.98	IN212
310H	2.295			.065	2.338							7240	2.165		55.00	IN218
311H	2.318			2.338	7240							2.188	2-3/16	55.55	IN218	
312H	2.382			.066	2.402							7560	2.250	2-1/4	57.15	IN225
313H	2.450			.069	2.470							8120	2.312	2-5/16	58.72	IN231
314H	2.517			.071	2.537							8580	2.375	2-3/8	60.33	IN237
315H	2.584			.072	2.604							8940	2.440		61.98	IN244
316H	2.648			.074	2.673							9660	2.531	2-17/32	64.29	IN253
317H	2.681			.075	2.706							9910	2.562	2-9/16	65.07	IN256
318H	2.714			.076	2.739							10420	2.625	2-5/8	66.68	IN262
319H	2.781	.078	2.806	10900	2.677		68.00	IN268								
320H	2.837	±.006	.103 +.005 -.000	.080	2.868	+.080 -.000	.188	.093	.530	.093	.093	2.625	2-5/8	66.68	IN262	
321H	2.848			2.868	10900							2.688	2-11/16	68.25	IN268	
322H	2.914			.082	2.944							11470	2.750	2-3/4	69.85	IN275
323H	2.980			.084	3.025							12200	2.812	2-13/16	71.42	IN281
324H	3.005			.085	3.025							12200	2.835		72.00	IN281
325H	3.051			.088	3.086							12870	2.875	2-7/8	73.03	IN287
326H	3.135	±.006	.120 +.005 -.000	.091	3.175	+.100 -.000	.203	.620	.100	.100	.125	2.953		75.00	IN295	
327H	3.182			3.222	13890							3.000	3	76.20	IN300	
328H	3.248			.093	3.288							14490	3.062	3-1/16	77.77	IN306
329H	3.315			.095	3.353							15110	3.125	3-1/8	79.38	IN312
330H	3.341			.096	3.388							15420	3.149		79.98	IN315
331H	3.348			3.388	15420							3.156	3-5/32	80.16	IN315	
332H	3.446			.098	3.488							16210	3.250	3-1/4	82.55	IN325
333H	3.546			.100	3.590							17030	3.346	3-11/32	84.99	IN334

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INTERNAL NOTCHED RINGS FOR HOUSING APPLICATIONS (CONTINUED)

Material: Steel SAE 1060-1070

Hardness: R/C 45-52

PETERSON PART NO.	GROOVE DIMENSIONS			RING DIMENSIONS				MIN. GAP G	NOTCH DIM.		THRUST LOAD LBS.	D _H HOUSING DIAMETER			REPLACES EATON PART NO.					
	DIAMETER		WIDTH X	DEPTH NOM.	FREE O.D.	DIA. TOL.	WIRE SECTION		DEPTH ND ±.020	WIDTH NW +.015 -.000		INCHES		MM EQUIV.						
	D _G	TOL.					W ±.005					T ±.002	DEC.			FRAC.				
334H	3.675	±.006	.120 +.005 -.000	.103	3.721	+.100 -.000	.234	.109	.710	.120	18190	3.469	3-15/32	88.11	IN347					
335H	3.710			.105	3.760							18700	3.500	3-1/2	88.90	IN350				
336H	3.755			.106	3.805							19400	3.543		90.00	IN354				
337H	3.776			.107	3.805							19400	3.562	3-9/16	90.47	IN354				
338H	3.841			.108	3.895							19930	3.625	3-5/8	92.08	IN362				
339H	3.964			.112	4.030							21380	3.740		95.00	IN375				
340H	3.974			.112	4.030							21380	3.750	3-3/4	95.25	IN375				
341H	4.107			.116	4.165							22880	3.875	3-7/8	98.43	IN387				
342H	4.174			.118	4.234							23650	3.938	3-15/16	100.00	IN393				
343H	4.240			.120	+.120 -.000							4.300	24430	4.000	4	101.60	IN400			
344H	4.365											4.430	25190	4.125	4-1/8	104.78	IN412			
345H	4.490											4.555	25960	4.250	4-1/4	107.95	IN425			
346H	4.571											4.641	26450	4.331		110.00	IN433			
347H	4.740											4.815	27490	4.500	4-1/2	114.30	IN450			
348H	4.865											4.940	28250	4.625	4-5/8	117.48	IN462			
349H	4.969											.122	+.180 -.000	5.070	29000	4.724		120.00	IN475	
350H	4.995													5.070	29000	4.750	4-3/4	120.65	IN475	
351H	5.260													.130	5.340	33100	5.000	5	127.00	IN500
352H	5.520													5.600	36070	5.250	5-1/4	133.35	IN525	
353H	5.650			.135	+.120 -.000							5.735	36930	5.375	5-3/8	136.53	IN537			
354H	5.770	5.860	37790			5.500	5-1/2	139.70	IN550											
355H	6.020	6.120	39500			5.750	5-3/4	146.05	IN575											
356H	6.270	6.380	41220			6.000	6	152.40	IN600											
357H	6.530	.174 +.008 -.000	+.150 .000	.140	44530	6.250	6-1/4	158.75	IN625											
358H	6.790			.145	6.905	47970	6.500	6-1/2	165.10	IN650										
359H	6.925			.150	7.045	50580	6.625	6-5/8	168.28	IN662										
360H	7.055			.152	7.180	52220	6.750	6-3/4	171.45	IN675										
361H	7.315			.157	7.445	55930	7.000	7	177.80	IN700										
362H	7.575			.162	7.705	59700	7.250	7-1/4	184.15	IN725										
363H	7.840			.170	7.975	64900	7.500	7-1/2	190.50	IN750										
364H	8.100			.175	8.240	68700	7.750	7-3/4	196.85	IN775										
365H	8.360			.180	8.505	72900	8.000	8	203.20	IN800										
366H	8.620			.185	8.770	77600	8.250	8-1/4	209.55	IN825										
367H	8.880	.190	9.035	81800	8.500	8-1/2	215.90	IN850												
368H	9.144	.197	9.305	87300	8.750	8-3/4	222.25	IN875												
369H	9.404	.202	9.564	92400	9.000	9	228.60	IN900												
370H	9.668	.209	9.833	98000	9.250	9-1/4	234.95	IN925												
371H	9.930	.215	10.100	103900	9.500	9-1/2	241.30	IN950												
372H	10.190	.220	10.365	109000	9.750	9-3/4	247.65	IN975												
373H	10.450	.225	10.630	114600	10.000	10	254.00	IN1000												

All Eaton names and numbers are for identification purposes only. In no way are we implying that our parts are Eaton parts.

Peterson Spring Manuuee
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Fax: (419) 867-8715

Peterson Spring Corporate Offices
21200 Telegraph Road
Southfield, MI 48033
Phone: (248) 799-5400
Fax: (248) 350-3206

RETAINING RING INFORMATION SHEET

Date: _____

Customer: _____

Contact : _____

Telephone No.: _____

Fax No.: _____

Part Number: _____

Monthly / annual Use: _____

Are you presently using a Retaining Ring? If so, what type is it? _____

Will this retaining ring be disassembled? _____

GENERAL INFORMATION

1. Thrust load required, if any. _____
2. Groove material type. _____
3. Groove material yield strength. _____
4. What corner radius or chamfer is on the retained parts? _____
5. Is there impact loading? If so, what magnitude? _____
6. Rotational speed - RPM. _____
7. Operating temperature of assembly. _____
8. Does ring operate in a corrosive environment? If so, what? _____
A. Do you require a special finish / coating? _____

Please supply the following information, if known.

