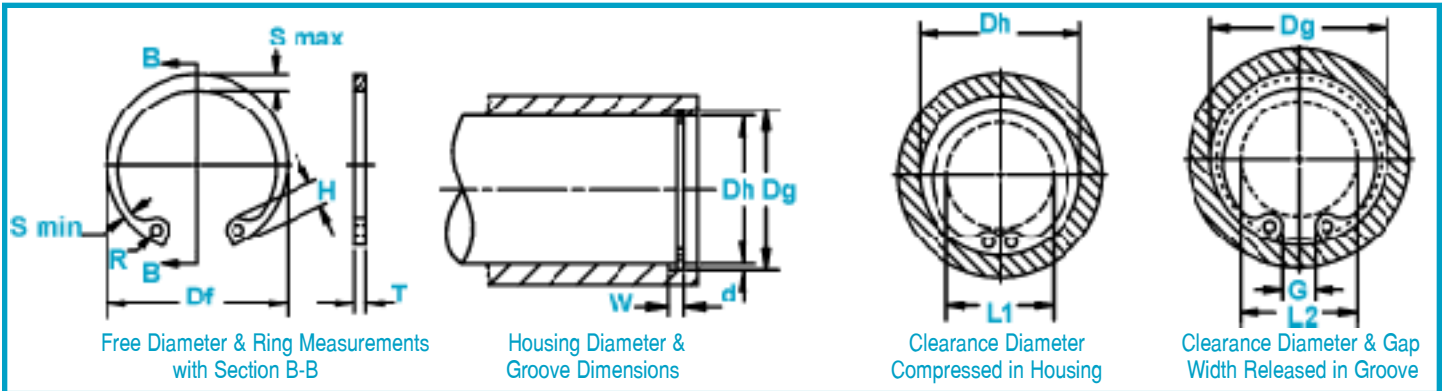




HO Housing Rings

Axially Assembled, Internal

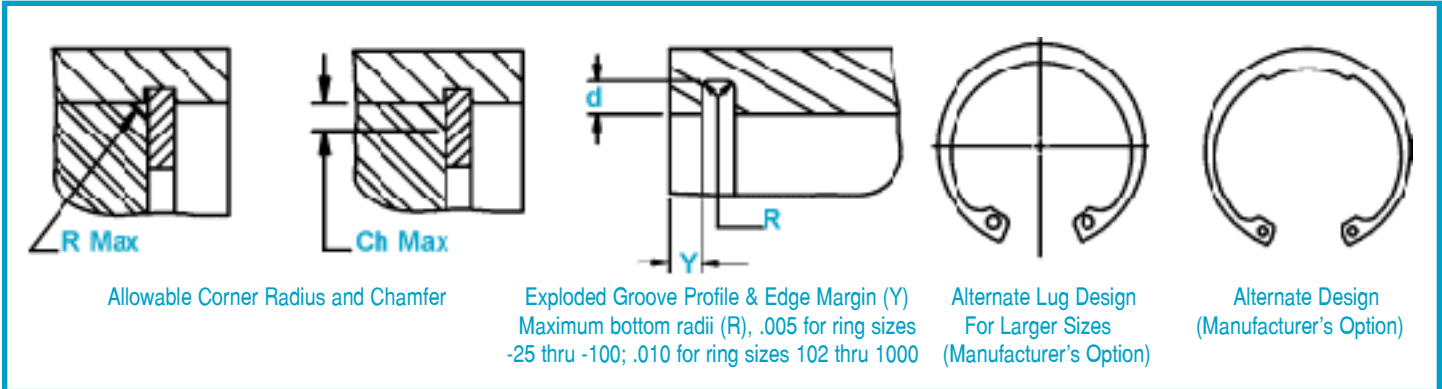
Once installed in the groove of a housing/bore, the shoulder holds an assembly in place.



RING NO.	HOUSING DIAMETER			GROOVE SIZE			RING SIZE & WEIGHT					CLEARANCE DIA.			i THRUST LD. (lbs.)		
	Dh DEC	Dh FRAC	Dh mm	Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	lbs.	Compressed in housing L1	Released in groove L2	Pr Ring Safety Factor of 4	Pg Groove Safety Factor of 2
HO-25	.250	1/4	6.4	.268	±.001	.020	+.002	.009	.280		.015		.08	.115	.133	426	190
HO-31	.312	5/16	7.9	.330	.0015*	.020	-.000	.009	.346		.015		.11	.173	.191	538	240
HO-37	.375	3/8	9.5	.397	±.002	.029		.011	.415		.025		.25	.204	.226	1066	350
HO-43	.438	7/16	11.1	.461	.002*	.029		.012	.482		.025		.37	.23	.254	1238	440
HO-45	.453	29/64	11.5	.477		.029		.012	.498		.025		.43	.25	.274	1299	460
HO-50	.500	1/2	12.7	.530		.039		.015	.548	+.010	.035		.70	.26	.290	2010	510
HO-51	.512	-	13.0	.542	±.002	.039		.015	.560	-.005	.035		.77	.27	.300	2060	520
HO-56	.562	9/16	14.3	.596	.004*	.039		.017	.620		.035		.86	.275	.305	2253	710
HO-62	.625	5/8	15.9	.665		.039		.020	.694		.035		1.0	.34	.380	2507	1050
HO-68	.688	11/16	17.5	.732		.039		.022	.763		.035		1.2	.40	.440	2741	1280
HO-75	.750	3/4	19.0	.796		.039	+.003	.023	.831		.035		1.3	.45	.490	3045	1460
HO-77	.777	-	19.7	.825		.046	-.000	.024	.859		.042		1.7	.475	.520	4618	1580
HO-81	.812	13/16	20.6	.862		.046		.025	.901		.042		1.9	.49	.540	4872	1710
HO-86	.866	-	22.0	.920	±.003	.046		.027	.961		.042		2.0	.54	.590	5177	1980
HO-87	.875	7/8	22.2	.931	.004*	.046		.028	.971		.042		2.1	.545	.600	5227	2080
HO-90	.901	-	22.9	.959		.046		.029	1.000	+.015	.042		2.2	.565	.620	5430	2200
HO-93	.938	15/16	23.8	1.000		.046		.031	1.041	-.010	.042	±.002	2.4	.61	.670	5684	2450
HO-100	1.000	1	25.4	1.066		.046		.033	1.111		.042		2.7	.665	.730	6039	2800
HO-102	1.023	-	26.0	1.091		.046		.034	1.136		.042		2.8	.69	.755	6141	3000
HO-106	1.062	1-1/16	27.0	1.130		.056		.034	1.180		.050		3.7	.685	.750	7562	3050
HO-112	1.125	1-1/8	28.6	1.197		.056		.036	1.249		.050		4.0	.745	.815	8019	3400
HO-118	1.181	-	30.0	1.255		.056		.037	1.319		.050		4.3	.79	.860	8526	3700
HO-118	1.188	1-3/16	30.2	1.262	±.004	.056		.037	1.319		.050		4.3	.80	.870	8526	3700
HO-125	1.250	1-1/4	31.7	1.330	.005*	.056		.040	1.388	+.025	.050		4.8	.875	.955	8932	4250
HO-125	1.259	-	32.0	1.339		.056		.040	1.388	-.020	.050		4.8	.885	.965	8932	4250
HO-131	1.312	1-5/16	33.3	1.396		.056		.042	1.456		.050		5.0	.93	1.01	9440	4700
HO-137	1.375	1-3/8	34.9	1.461		.056		.043	1.526		.050		5.1	.99	1.07	9846	5050
HO-137	1.378	-	35.0	1.464		.056	+.004	.043	1.526		.050		5.1	.99	1.07	9846	5050
HO-143	1.438	1-7/16	36.5	1.528		.056	-.000	.045	1.596		.050		5.8	1.06	1.15	10353	5500
HO-145	1.456	-	37.0	1.548		.056		.046	1.616		.050		6.4	1.08	1.17	10455	5700
HO-150	1.500	1-1/2	38.1	1.594		.056		.047	1.660		.050		6.5	1.12	1.21	10708	6000
HO-156	1.562	1-9/16	39.7	1.658		.068		.048	1.734		.062	±.003	8.9	1.14	1.23	13906	6350
HO-156	1.575	-	40.0	1.671	±.005	.068		.048	1.734	+.035	.062		8.9	1.15	1.24	13906	6350
HO-162	1.625	1-5/8	41.3	1.725	.005*	.068		.050	1.804	-.025	.062		10.0	1.15	1.25	14413	6900
HO-165	1.653	-	42.0	1.755		.068		.051	1.835		.062		10.4	1.17	1.27	14718	7200
HO-168	1.688	1-11/16	42.9	1.792		.068		.052	1.874		.062		10.8	1.23	1.33	15022	7450

* F. I. M. (FULL INDICATOR MOVEMENT)- MAXIMUM ALLOWABLE DEVIATION OF CONCENTRICITY BETWEEN GROOVE & HOUSING.
 i BASED ON HOUSINGS/SHAFTS MADE OF COLD ROLLED STEEL. FOR AN EXPLANATION OF FORMULAS USED TO DERIVE THRUST LOAD
 AND OTHER PERFORMANCE DATA CONTACT THE ROTOR CLIP ENGINEERING DEPARTMENT.
 ***FOR PLATED RINGS ADD .002" TO THE LISTED MAXIMUM THICKNESS. MAXIMUM THICKNESS WILL BE A MINIMUM OF .0002" LESS THAN THE
 LISTED GROOVE WIDTH (W) MINIMUM.

For technical assistance call 1-800-55-ROTOR



RING NO.	LUG HEIGHT		MAXIMUM SECTION		MINIMUM SECTION		HOLE DIAMETER		GAP WIDTH Ring in Groove	ALLOWABLE CORNER RADII & CHAMFERS			MAX. LOAD w/ R max or Ch max (lbs.)	EDGE MARGIN	
	H	Tol.	S max	Tol.	S min	Tol.	R	Tol.		G Min	R max	Ch max			P'r
HO-25	.065	±.003	.025	±.002	.015	±.002	.031	+.010 -.002	.047	.011	.0085	190	.027		
HO-31	.066		.033		.018		.031		.055	.016	.013	190	.027		
HO-37	.082		.040		.028		.041		.063	.023	.018	530	.033		
HO-43	.098	±.003	.049	±.003	.029	±.003	.041		.063	.027	.021	530	.036		
HO-45	.098		.050		.030		.047		.071	.027	.021	530	.036		
HO-50	.114		.053		.035		.047		.090	.027	.021	1100	.045		
HO-51	.114	±.004	.053	±.004	.035	±.004	.047		.092	.027	.021	1100	.045		
HO-56	.132		.060				.035			.062	.095	.027	.021	1100	.051
HO-62	.132		.063				.036			.062	.104	.027	.021	1100	.060
HO-68	.132	±.005	.070	±.005	.040	±.005	.062		.118	.027	.021	1100	.066		
HO-75	.142		.074				.044			.062	.143	.032	.025	1100	.069
HO-77	.146		.077				.044			.062	.145	.035	.028	1650	.072
HO-81	.155	±.006	.081	±.006	.045	±.006	.062	+.015 -.002	.153	.035	.028	1650	.075		
HO-86	.155		.084				.045			.062	.172	.035	.028	1650	.081
HO-87	.155		.087				.047			.062	.179	.035	.028	1650	.084
HO-90	.155	±.007	.091	±.007	.050	±.007	.062		.188	.038	.030	1650	.087		
HO-93	.155		.104				.052			.062	.200	.038	.030	1650	.093
HO-100	.155		.106				.054			.062	.212	.042	.034	1650	.099
HO-102	.155	±.006	.110	±.006	.055	±.006	.078		.220	.042	.034	1650	.102		
HO-106	.180		.116				.057			.078	.213	.044	.035	2400	.102
HO-112	.180		.120				.058			.078	.232	.047	.036	2400	.108
HO-118	.180	±.007	.124	±.007	.062	±.007	.078		.226	.047	.036	2400	.111		
HO-118	.180		.124				.058			.078	.245	.047	.036	2400	.111
HO-125	.180		.124				.062			.078	.265	.048	.038	2400	.120
HO-125	.180	±.007	.130	±.007	.062	±.007	.078	+.015 -.002	.290	.048	.038	2400	.120		
HO-131	.180		.130				.063			.078	.284	.048	.038	2400	.126
HO-137	.180		.133				.065			.078	.297	.048	.038	2400	.129
HO-137	.180	±.007	.133	±.007	.065	±.007	.078		.305	.048	.038	2400	.129		
HO-143	.180		.133				.065			.078	.313	.048	.038	2400	.135
HO-145	.180		.133				.066			.078	.320	.048	.038	2400	.138
HO-150	.180	±.007	.157	±.007	.078	±.007	.078		.340	.048	.038	2400	.141		
HO-156	.202		.164				.082			.078	.338	.064	.050	3900	.144
HO-156	.202		.167				.083			.078	.374	.064	.050	3900	.144
HO-162	.230	±.007	.170	±.007	.085	±.007	.078		.339	.064	.050	3900	.150		
HO-165	.230		.170				.085			.078	.348	.064	.050	3900	.153
HO-168	.230		.170				.085			.078	.357	.064	.050	3900	.156

FOR HARDNESS SPECIFICATIONS, SEE END OF THIS SECTION