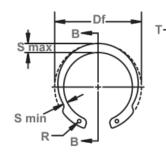
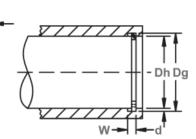


Axially Assembled, Internal Inverted

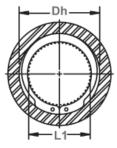
Functions like an HO ring in a housing/bore, only the lugs are "reversed." This version reduces the distance the lugs of the standard HO extend into the inner circumference of the housing/bore and allows for another assembly to pass through unimpeded.



Free Diameter & Ring Measurements with Section B-B



Housing Diameter & Groove Dimensions





Clearance Diameter Compressed in Housing Compressed in Housing

NO.		HOUSING			GROOVE SIZE					RING SIZE & WEIGHT				CLEARANCE DIA.		î THRUST LD. (lbs.)	
	DIAMETER			DIAMETER		WIDTH		DEPTH	FREE		THICKNESS***		Wght.	Com-	Released		er Abutment
									DIAME	TER			Per	pressed	in [Ring	Groove
													1000	in	groove	Safety	Safety
													Pcs.	housing		Factor	Factor
	Dh	Dh	Dh													of 4	of 2
	DEC	FRACT	mm	Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	lbs.	L1	L2	Pr	Pg
H0I-62	.625	5/8	15.9	.665	±.002	.029		.020	.675		.025		0.7	.47	.51	1015	450
H0I-75	.750	3/4	19.0	.796	.004*	.039		.023	.808		.035		1.3	.56	.605	1675	600
HOI-81	.812	13/16	20.6	.862		.046	+.003	.025	.877	+.010	.042		2.0	.62	.665	2639	700
H0I-87	.875	7/8	22.2	.931	±.003	.046	000	.028	.944	005	.042		2.2	.65	.705	2893	850
H0I-93	.938	15/16	23.8	1.000	.004*	.046		.031	1.015		.042		2.8	.70	.755	3147	1000
H0I-100	1.000	1	25.4	1.066		.046		.033	1.081		.042		2.9	.75	.81	3350	1150
HOI-106	1.062	1-1/16	27.0	1.130		.056		.034	1.150		.050	4	3.8	.80	.87	4212	1250
HOI-112	1.125	1-1/8	28.6	1.197		.056		.036	1.217		.050		4.4	.86	.93	4466	1400
HOI-118	1.188	1-3/16	30.2	1.262		.056		.037	1.283	+.015	.050	±.002	4.9	.91	.98	4720	1600
HOI-125	1.250	1-1/4	31.7	1.330	±.004	.056		.040	1.351	010	.050		5.0	.97	1.05	4974	1750
HOI-131 HOI-137	1.312 1.375	1-5/16 1-3/8	33.3 34.9	1.396	.005*	.056	. 004	.042	1.418		.050 .050	.	5.3 5.9	1.02	1.10 1.16	5227 5481	1950 2100
HOI-137	1.438	1-3/8	36.5	1.528		.056	+.004	.043	1.480		.050	-	5.9 6.3	1.13	1.10	5735	2300
HOI-143	1.500	1-1/2	30.5	1.528		.056	000	.045	1.622		.050	4	6.8	1.13	1.22	5938	2500
HOI-150 HOI-156	1.500	1-1/2	38.1	1.658		.068		.047	1.688	<u> </u>	.050		0.8 8.9	1.18	1.27	7714	2650
HOI-156	1.625	1-5/8	41.3	1.725		.068		.048	1.756		.062		10.4	1.21	1.30	8019	2850
HOI-162	1.688	1-5/6	41.5	1.725	±.005	.068		.050	1.823	+.020	.062		11.9	1.32	1.42	8374	3100
HOI-100	1.750	1-3/4	44.4	1.858	±.005 .005*	.068		.052	1.891	013	.062		11.8	1.32	1.42	8678	3300
HOI-175	1.875	1-3/4	44.4	1.989	.005	.008		.054	2.025	013	.062	4	14.8	1.30	1.49	9287	3750
HOI-107	2.000	2	50.8	2.122		.068		.057	2.025		.062		17.4	1.47	1.67	9207	4300
H0I-200	2.000	2-1/16	52.4	2.122		.000		.061	2.224		.002		23.2	1.55	1.71	12840	4500
H0I-200	2.002	2-1/10	54.0	2.251	±.006	.086	+.005	.062	2.224		.078	1	24.3	1.65	1.77	13246	4700
H0I-237	2.375	2-1/8	60.3	2.517	.006*	.086	000	.003	2.567	+.025	.078	±.003	24.5	1.86	2.00	14718	5900
H0I-243	2.438	2-7/16	61.9	2.584	.000	.086	000	.071	2.634	015	.078	1.003	30.6	1.91	2.00	15124	6200
H0I-250	2.500	2-1/2	63.5	2.648		.000		.072	2.700	015	.078		32.1	1.96	2.00	15530	6500
H0I-262	2.625	2-5/8	66.7	2.781		.103		.074	2.840		.093		45.6	2.06	2.10	19488	7200
H0I-275	2.750	2-3/4	69.8	2.914		.103		.070	2.975		.093		47.8	2.00	2.32	20300	7900
H0I-283	2.812	2-13/16	71.4	2.980		.103		.084	3.063		.093		49.5	2.21	2.37	20808	8300
H0I-283	2.835	2-10/10	72.0	3.006		.103		.086	3.063		.093		49.5	2.23	2.39	20808	8550
H0I-287	2.875	2-7/8	73.0	3.051		.103		.000	3.105	+.030	.093		50.1	2.26	2.43	21315	8900
H0I-300	3.000	3	76.2	3.182		.103		.000	3.245	020	.000	1	52.6	2.36	2.53	22229	9600
HOI-315	3.156	3-5/32	80.2	3.348		.120		.096	3.408	.020	.109	1	69.4	2.50	2.69	27405	10600
H0I-325	3.250	3-1/4	82.5	3.446		.120		.000	3.509		.109	1	72.6	2.58	2.77	28217	11200
H0I-334	3.346	3-11/32	85.0	3.546		.120		.100	3.611		.109	1	75.6	2.67	2.87	29029	11700
HOI-350	3.500	3-1/2	88.9	3.710		.120		.105	3.780		.109	1	80.2	2.82	3.03	30349	12900
H0I-356	3.562	3-9/16	90.5	3.776		.120		.107	3.850		.109	1	82.4	2.88	3.09	30958	13400
HOI-400	4.000	4	101.6	4.240		.120		.120	4.350		.109	1	97.4	3.29	3.53	34713	16900

*F.I.M. (FULL INDICATOR MOVEMENT)-MAXIMUM ALLOWABLE DEVIATION OF CONCENTRICITY BETWEEN GROOVE AND HOUSING. î 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. Note: Specifications listed within the catalog tables reflect Rotor Clip's standard

commercial production dimensions. Published retaining ring standards including Military (MIL-DTL-21248D) / ASME / NAS / ANSI may require parts with alternative geometry. Please contact Rotor Clip Technical Sales Department to clarify conformance to specific requirements. (Tech@rotorclip.com or +1-732-469-7333.)

HARDNESS RANGES: STAINLESS STEEL RINGS (PH 15-7MO)

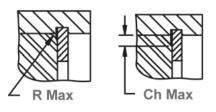
RING TYPE	SIZE RANGE	SCALE	ROCKWELL HARDNESS
HOI	62-100	30N	63-69.5
	106+	С	44-51

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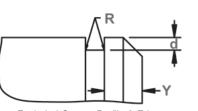
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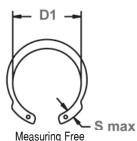




Allowable Corner Radius & Chamfer



Exploded Groove Profile & Edge Margin (Y) Maximum bottom radii (R), .005 for ring sizes -62 thru -100; .010 for ring sizes -106 thru -400



Measuring Free Diameter (Df) HOI Series Df = D1 + 2(S max)



Alternate Design Manufacturer's Option

RING NO.	MAXIMUM SECTION Including Iug		MINIMUM Section		DIAM	DLE Ieter	GAP WIDTH Ring in groove	Cor Rad Char	vable rner lii & nfers	MAX LOAD W/R Max or Ch Max	EDGE MARGIN
	S max	Tol.	S min.	Tol.	R	Tol.	G Min	R max	Ch max	P'r	Y
H0I-62	.072	±.004	.036	±.004	.030		.15	.042	.028	400	.060
H0I-75	.085		.042		.042		.175	.050	.031	850	.069
HOI-81	.092		.044		.042		.175	.054	.034	1250	.075
H0I-87	.099		.047		.042		.20	.057	.036	1250	.084
HOI-93	.106	±.005	.051	±.005	.042	+.010	.21	.060	.038	1250	.093
HOI-100	.113		.054		.042	002	.225	.064	.040	1250	.099
HOI-106	.120		.057		.050		.24	.069	.043	1800	.102
H0I-112	.123		.059		.050		.24	.070	.044	1800	.108
HOI-118	.126	000	.060	000	.050		.27	.071	.045	1800	.111
H0I-125	.129	±.006	.061	±.006	.050		.29	.071	.045	1800	.120
HOI-131	.132		.063		.050		.29	.072	.045	1800	.126
HOI-137	.135		.065		.050		.33	.074	.046	1800	.129
HOI-143	.144		.069		.076		.35	.079	.050	1800	.135
HOI-150	.148		.070		.076		.33	.081	.051	1800	.141
HOI-156	.158		.074		.076		.36	.088	.055	2900	.144
HOI-162	.162	. 007	.077	. 007	.076	. 015	.385	.090	.056	2900	.150
HOI-168	.166	±.007	.079	±.007	.076	+.015	.405	.091	.057	2900	.156
HOI-175	.170		.082		.076	002	.42	.093	.058	2900	.162
HOI-187	.188		.090		.076		.44	.105	.066	2900	.171
H0I-200	.208		.100		.076		.48	.118	.074	2900	.183
H0I-206	.218		.106		.094		.485	.125	.078	4600	.186 .189
HOI-212	.223		.108		.094		.49	.128	.080	4600	
H0I-237	.243		.115		.094		.55 .57	.138	.086	4600	.213 .216
H0I-243	.248 .254		.117 .120		.094			.141 .144	.088	4600 4600	.216
H0I-250 H0I-262	.254		.120		.094		.59	.144	.090	6700	.222
H0I-262 H0I-275	.266		.128		.109		.60 .63	.150	.094	6700	.234
HOI-275 HOI-283	.278		.134		.109		.63	.157	.102	6700	.240
HOI-283	.286		.139		.109		.67	.162	.102	6700	.252
H0I-283	.200		.139		.109		.07	.162	.102	6700	.256
HOI-207	.302		.139		.109		.705	.162	.101	6700	.204
HOI-300	.302		.143		.109		.705	.109	.100	9000	.273
H0I-315 H0I-325	.314		.149		.125		.70	.174	.110	9000	.200
HOI-325	.321	±.008	.155	±.008	.125		.81	.170	.110	9000	.294
H0I-354	.324	±.000	.155	±.000	.125		.84	.177	.110	9000	.300
H0I-356	.324		.154		.125		.86	.175	.110	9000	.313
H0I-350	.338		.161		.125		.00	.173	.108	9000	.360
101-400	.000		.101		.120		.90	.174	.100	9000	.300

LARGER SIZES MAY BE AVAILABLE UPON REQUEST.

HARDNESS RANGES: CARBON STEEL RINGS (SAE 1060-1090)

SIZE RANGE ROCKWELL HARDNESS RING TYPE SCALE HOI 62 & 75 30N 67.5-72 81-100 30N 66-71 47-52 45-50 106-343 С 350 +С

HARDNESS RANGES: BERYLLIUM COPPER RINGS									
RING TYPE SIZE RANGE SCALE ROCKWELL HARDNE									
HOI	62-100	30N	56.5-62						
	106+	С	37-43						

(R)

For the most up-to-date specifications, online ordering, quotations & sample orders, visit www.rotorclip.com

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