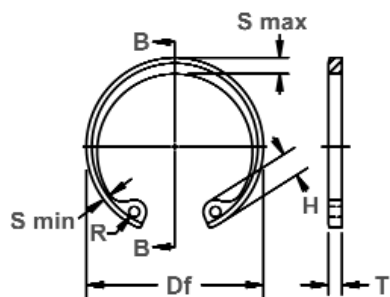




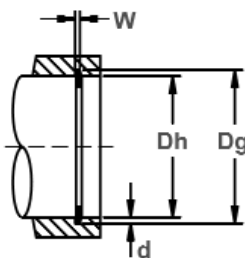
VHO Housing Rings

Axially Assembled, Internal Beveled

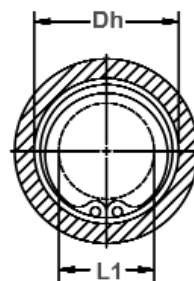
These rings look exactly like their HO counterpart, only they have a 15° angle on the outer edge. This combines with a complementary groove angle to eliminate endplay by wedging itself between the groove and the retained part.



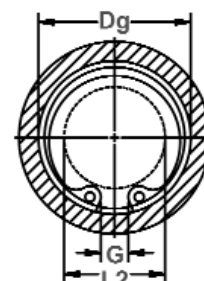
Free Diameter & Ring Measurements with Section B-B



Housing Diameter & Groove Dimensions



Clearance Diameter Compressed in Housing



Clearance Diameter & Gap Width Released in Groove

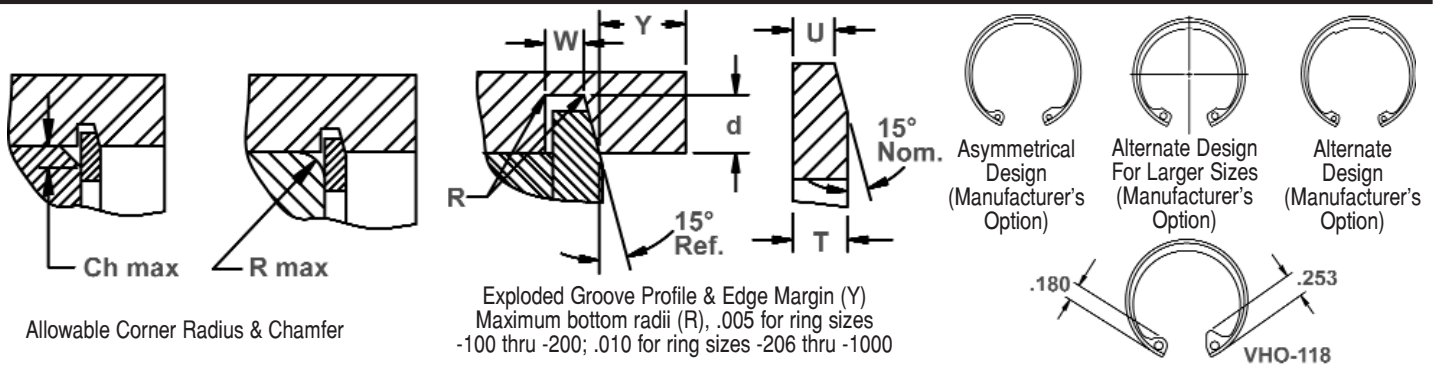
RING NO.	HOUSING DIAMETER			GROOVE SIZE					RING SIZE & WEIGHT						CLEARANCE DIA.		
				DIAMETER		WIDTH		DEPTH	FREE DIAMETER		THICKNESS***		THICKNESS BEVELED END		Weight. Per 1000 Pcs.	Com-pressed in housing	Re-leased in groove
	Dh DEC	Dh FRACT	Dh mm	Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	U	Tol.	lbs.	L1	L2
VHO-100	1.000	1	25.4	1.076	+.003	.036	+.005 -.000	.038	1.111	+.015	.042	±.002	.033	±.001	2.7	.665	.70
VHO-102	1.023	-	26.0	1.101	-.000	.036		.039	1.136	-.010	.042		.033		2.8	.69	.725
VHO-106	1.062	1-1/16	27.0	1.138	.004*	.044		.038	1.180	+.025 -.020	.050		.041		3.7	.685	.72
VHO-112	1.125	1-1/8	28.6	1.205	+.004 -.000 .005*	.043		.040	1.249		.050		.040		4.0	.745	.78
VHO-118	1.181	-	30.0	1.265		.043		.042	1.319		.050		.040		4.3	.66	.69
VHO-118	1.188	1-3/16	30.2	1.272		.043		.042	1.319		.050		.040		4.3	.67	.70
VHO-125	1.250	1-1/4	31.7	1.342		.042		.046	1.388		.050		.039		4.8	.875	.92
VHO-125	1.259	-	32.0	1.351		.042		.046	1.388		.050		.039		4.8	.885	.93
VHO-131	1.312	1-5/16	33.3	1.408		.042		.048	1.456		.050		.039		5.0	.93	.97
VHO-137	1.375	1-3/8	34.9	1.475		.041		.050	1.526		.050		.038		5.1	.99	1.03
VHO-137	1.378	-	35.0	1.478		.041	.050	1.526	.050		.038	5.1	.99	1.03			
VHO-143	1.438	1-7/16	36.5	1.542		.040	.052	1.596	.050		.037	5.8	1.06	1.11			
VHO-145	1.456	-	37.0	1.562		.040	.053	1.616	.050	.037	6.4	1.08	1.13				
VHO-150	1.500	1-1/2	38.1	1.604	.040	.052	1.660	.050	.037	6.5	1.12	1.17					
VHO-156	1.562	1-9/16	39.7	1.674	+.005 -.000 .005*	.052	.056	1.734	.062	+.035 -.025	.048	±.003	8.9	1.10	1.15		
VHO-156	1.575	-	40.0	1.687		.052	.056	1.734	.062		.048		8.9	1.11	1.16		
VHO-162	1.625	1-5/8	41.3	1.743		.051	.059	1.804	.062		.047		10.0	1.16	1.22		
VHO-165	1.653	-	42.0	1.773		.051	.060	1.835	.062		.047		10.4	1.17	1.22		
VHO-168	1.688	1-11/16	42.9	1.810		.050	.061	1.874	.062		.046		10.8	1.21	1.27		
VHO-175	1.750	1-3/4	44.4	1.878		.050	.064	1.942	.062		.046		10.3	1.27	1.32		
VHO-181	1.812	1-13/16	46.0	1.944		.050	.066	2.012	.062		.046		11.5	1.34	1.40		
VHO-185	1.850	-	47.0	1.984		.050	.067	2.054	.062		.046		12.8	1.36	1.43		
VHO-187	1.875	1-7/8	47.6	2.011		.050	.068	2.054	.062		.046		12.8	1.38	1.45		
VHO-193	1.938	1-15/16	49.2	2.082		.049	.072	2.141	.062		.045		13.3	1.46	1.53		
VHO-200	2.000	2	50.8	2.144	.048	.072	2.210	.062	.044	14.0	1.52	1.59					
VHO-206	2.047	-	52.0	2.195	+.006 -.000 .006*	.065	+.007 -.000	.074	2.280	+.040 -.030	.078	±.0015	.060	18.0	1.52	1.59	
VHO-206	2.062	2-1/16	52.4	2.210		.065		.074	2.280		.078		.060	18.0	1.54	1.61	
VHO-212	2.125	2-1/8	54.0	2.279		.065		.077	2.350		.078		.060	19.4	1.60	1.67	
VHO-218	2.165	-	55.0	2.327		.064		.081	2.415		.078		.059	19.6	1.63	1.71	
VHO-218	2.188	2-3/16	55.6	2.350		.064		.081	2.415		.078		.059	19.6	1.66	1.74	

† BASED ON HOUSINGS/SHAFTS MADE OF COLD ROLLED STEEL.

NOTE: CONTACT ROTOR CLIP FOR AVAILABILITY OF SIZES LISTED.

* 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.



RING NO.	ALLOWABLE CORNER RADII & CHAMFERS		MAX. LOAD w/ R max or Ch max (in lbs.)	EDGE MARGIN	END-PLAY TAKE-UP	LUG HEIGHT		MAXIMUM SECTION		MINIMUM SECTION		HOLE DIAMETER		GAP WIDTH Ring in groove	i THRUST LD. (lbs.)	
															Ring Safety factor of 4	Groove Safety factor of 2
	R max	Ch max	P'r	Y	In.	H	Tol.	S max	Tol.	S min	Tol.	R	Tol.	G min	Pr	Pg
VHO-100	.042	.034	1650	.057	.005	.155		.104	±.005	.052	±.005	.062	+.010	.145	6039	1600
VHO-102	.042	.034	1650	.058	.005	.155		.106		.054		.062	-.002	.150	6141	1700
VHO-106	.044	.035	2400	.057	.005	.180		.110		.055		.078		.143	7562	1700
VHO-112	.047	.036	2400	.060	.005	.180		.116		.057		.078		.157	8019	1900
VHO-118	.047	.036	2400	.063	.0055	.180		.120		.058		.078		.150	8526	2100
VHO-118	.047	.036	2400	.063	.0055	.180		.120		.058		.078		.169	8526	2100
VHO-125	.048	.038	2400	.069	.006	.180		.124	±.006	.062	±.006	.078		.184	8932	2400
VHO-125	.048	.038	2400	.069	.006	.180		.124		.062		.078		.209	8932	2400
VHO-131	.048	.038	2400	.072	.006	.180		.130		.062		.078		.198	9440	2650
VHO-137	.048	.038	2400	.075	.0065	.180		.130		.063		.078		.211	9846	2900
VHO-137	.048	.038	2400	.075	.0065	.180		.130		.063		.078		.219	9846	2900
VHO-143	.048	.038	2400	.078	.007	.180		.133		.065		.078		.221	10353	3100
VHO-145	.048	.038	2400	.078	.007	.180		.133		.065		.078		.226	10455	3250
VHO-150	.048	.038	2400	.078	.007	.180	±.005	.133		.066		.078	+.015	.238	10708	3300
VHO-156	.064	.050	3900	.084	.0075	.202		.157		.078		.078	-.002	.238	13906	3600
VHO-156	.064	.050	3900	.084	.0075	.202		.157		.078		.078		.275	13906	3600
VHO-162	.064	.050	3900	.088	.008	.230		.164		.082		.078		.242	14413	4000
VHO-165	.064	.050	3900	.090	.008	.230		.167		.083		.078		.245	14718	4200
VHO-168	.064	.050	3900	.091	.008	.230		.170		.085		.078		.255	15022	4300
VHO-175	.064	.050	3900	.096	.0085	.230		.171		.083		.078		.267	15580	4700
VHO-181	.064	.050	3900	.099	.009	.230		.170	±.007	.084	±.007	.093		.277	16139	5050
VHO-185	.064	.050	3900	.100	.009	.234		.170		.085		.093		.245	16443	5200
VHO-187	.064	.050	3900	.102	.009	.234		.170		.085		.093		.310	16697	5400
VHO-193	.064	.050	3900	.108	.0095	.230		.170		.085		.093		.328	17255	5900
VHO-200	.064	.050	3900	.108	.0095	.230		.170		.085		.093		.332	17763	6100
VHO-206	.076	.061	6200	.111	.0095	.250		.186		.091		.093		.311	23091	6500
VHO-206	.078	.062	6200	.111	.0095	.250		.186		.091		.093		.349	23091	6500
VHO-212	.078	.062	6200	.115	.010	.250		.195		.096		.093		.345	23751	7000
VHO-218	.078	.062	6200	.121	.010	.250		.199		.098		.093		.323	24462	7450
VHO-218	.078	.062	6200	.121	.010	.250		.199		.098		.093		.373	24462	7450

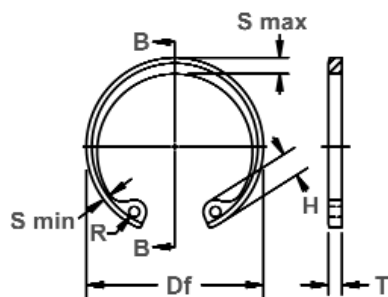
FOR HARDNESS SPECIFICATIONS, SEE END OF THIS SECTION.



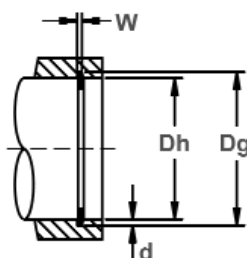
VHO Housing Rings

Axially Assembled, Internal Beveled

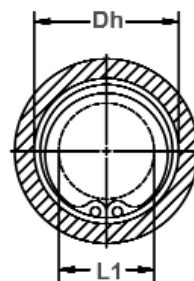
These rings look exactly like their HO counterpart, only they have a 15° angle on the outer edge. This combines with a complementary groove angle to eliminate endplay by wedging itself between the groove and the retained part.



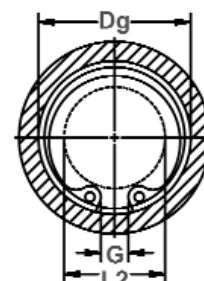
Free Diameter & Ring Measurements with Section B-B



Housing Diameter & Groove Dimensions



Clearance Diameter Compressed in Housing



Clearance Diameter & Gap Width Released in Groove

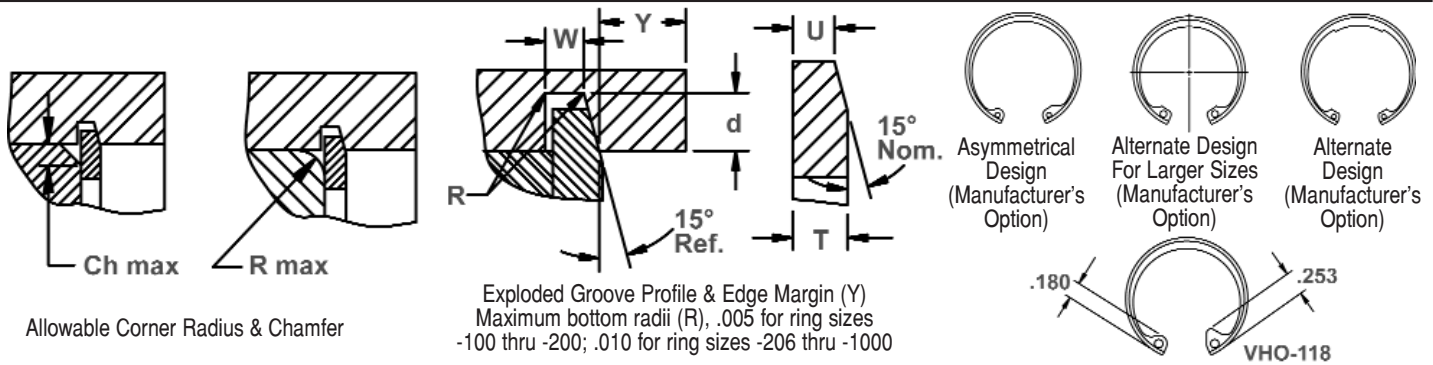
RING NO.	HOUSING DIAMETER			GROOVE SIZE					RING SIZE & WEIGHT								CLEARANCE DIA.		
				DIAMETER		WIDTH		DEPTH	FREE DIAMETER		THICKNESS***		THICKNESS BEVELED END	Weight. Per 1000 Pcs.	Com-pressed in housing	Re-leased in groove			
	Dh DEC	Dh FRACT	Dh mm	Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	U	Tol.	lbs.	L1	L2		
VHO-225	2.250	2-1/4	57.1	2.420	+ .006 - .000 .006*	.064	+ .007 - .000	.085	2.490	+ .040 - .030	.078	+ .003	.059	± .0015	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		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		.097	2.910		.093		.071		34.5	2.02	2.11		
VHO-268	2.677	-	68.0	2.876		.077		.099	2.980		.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	+ .006 - .000 .006*	.076	+ .008 - .000	.102	3.050	± .055	.093	± .0025	.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-300	2.953	-	75.0	3.178		.074		.112	3.325		.093		.068		42.5	2.32	2.43		
VHO-300	3.000	3	76.2	3.225		.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-315	3.149	-	80.0	3.381		.089		.116	3.523		.109		.082		57.0	2.49	2.60		
VHO-315	3.156	3-5/32	80.2	3.388		.089		.116	3.523		.109		.082		57.0	2.50	2.61		
VHO-325	3.250	3-1/4	82.5	3.489	.089	.119	3.623	± .055	.109	.082	60.0	2.54	2.65						
VHO-334SP1	3.346	3-11/32	85.0	3.591	+ .008 - .000	.089	+ .008 - .000	.122	3.734	± .065	.109	± .0025	.082	± .002	65.0	2.63	2.74		
VHO-347	3.469	3-15/32	88.1	3.726		.089		.128	3.857		.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-354SP1	3.543	-	90.0	3.806		.089		.132	3.936		.109		.082		72.0	2.83	2.95		
VHO-354SP1	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							

† BASED ON HOUSINGS/SHAFTS MADE OF COLD ROLLED STEEL.

NOTE: CONTACT ROTOR CLIP FOR AVAILABILITY OF SIZES LISTED.

* 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.



RING NO.	ALLOWABLE CORNER RADII & CHAMFERS		MAX. LOAD w/ R max or Ch max (in lbs.)	EDGE MARGIN	END-PLAY TAKE-UP	LUG HEIGHT		MAXIMUM SECTION		MINIMUM SECTION		HOLE DIAMETER		GAP WIDTH Ring in groove	THRUST LD. (lbs.)	
	R max	Ch max													Sqr. corner abutment	
			P'r	Y	In.	H	Tol.	S max	Tol.	S min	Tol.	R	Tol.	G min	Pr	Pg
VHO-225	.078	.062	6200	.127	.0105	.280		.203		.099		.093		.368	25223	8050
VHO-231	.078	.062	6200	.129	.011	.280		.206		.100		.093		.362	25832	8400
VHO-237	.078	.062	6200	.133	.0115	.280		.207		.102		.093		.374	26542	8900
VHO-244	.078	.062	6200	.133	.012	.280		.209		.103		.110		.386	27304	9100
VHO-250	.078	.062	6200	.138	.012	.280		.210		.103		.110		.398	28014	9600
VHO-250	.078	.062	6200	.139	.0125	.280		.210		.103		.110		.460	28014	9600
VHO-256	.088	.070	9000	.141	.0125	.300	±.005	.222	±.007	.109	±.007	.110		.400	34206	10200
VHO-262	.088	.070	9000	.145	.013	.290		.226		.111		.110		.418	35068	10800
VHO-268	.090	.072	9000	.148	.013	.300		.230		.113		.110		.393	35931	11300
VHO-268	.090	.072	9000	.148	.013	.300		.230		.113		.110		.423	35931	11300
VHO-275	.092	.074	9000	.153	.014	.300		.234		.115		.110		.442	36642	11800
VHO-281	.088	.070	9000	.156	.014	.300		.230		.115		.110		.459	37504	12200
VHO-281	.088	.070	9000	.156	.014	.300		.230		.115		.110		.512	37504	12200
VHO-287	.092	.074	9000	.157	.014	.300		.240		.120		.110		.451	38367	12600
VHO-300	.092	.074	9000	.168	.015	.300		.250		.122		.110	+.015	.449	40093	14200
VHO-300	.092	.074	9000	.168	.015	.300		.250		.122		.110	-.002	.568	40093	14200
VHO-306	.097	.078	12000	.171	.015	.310		.254		.126		.125		.473	47807	14800
VHO-312	.099	.079	12000	.172	.0155	.310		.259		.129		.125		.469	48822	15200
VHO-315	.100	.080	12000	.174	.0155	.310		.262		.129		.125		.462	49329	15500
VHO-315	.100	.080	12000	.174	.0155	.310		.262		.129		.125		.481	49329	15500
VHO-325	.104	.083	12000	.178	.016	.342		.269		.135		.125		.509	50750	16400
VHO-334SP1	.108	.086	12000	.183	.0165	.342		.276		.140		.125		.514	52374	17300
VHO-347	.108	.086	12000	.192	.017	.342	±.008	.286	±.008	.144	±.008	.125		.571	54201	18800
VHO-350	.110	.088	12000	.195	.017	.342		.289		.142		.125		.574	54709	19300
VHO-354SP1	.110	.088	12000	.198	.0175	.342		.292		.142		.125		.586	55419	19800
VHO-354SP1	.110	.088	12000	.201	.018	.342		.292		.142		.125		.643	55419	19800
VHO-362	.116	.093	12000	.205	.018	.342		.299		.150		.125		.639	56739	21100
VHO-375	.120	.096	12000	.217	.0195	.342		.309		.155		.125		.647	58566	23100
VHO-375	.120	.096	12000	.217	.0195	.342		.309		.155		.125		.674	58566	23100
VHO-387	.123	.098	12000	.222	.020	.370		.319		.160		.125		.680	60494	24300
VHO-393	.124	.099	12000	.223	.020	.370		.324		.161		.125		.687	61611	24900
VHO-400	.128	.102	12000	.226	.020	.370		.330		.166		.125		.694	62626	25600

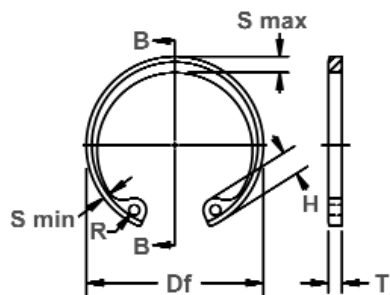
FOR HARDNESS SPECIFICATIONS, SEE END OF THIS SECTION.



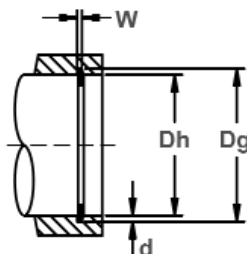
VHO Housing Rings

Axially Assembled, Internal Beveled

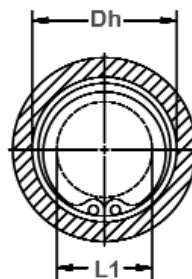
These rings look exactly like their HO counterpart, only they have a 15° angle on the outer edge. This combines with a complementary groove angle to eliminate endplay by wedging itself between the groove and the retained part.



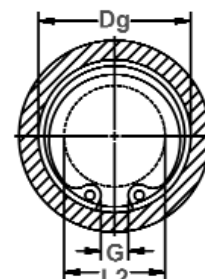
Free Diameter & Ring Measurements with Section B-B



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		
				DIAMETER		WIDTH		DEPTH	FREE DIAMETER		THICKNESS***		THICKNESS BEVELED END		Weight. Per 1000 Pcs.	Com-pressed in housing	Re-leased in groove	
	Dh DEC	Dh FRACT	Dh mm	Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	U	Tol.	lbs.	L1	L2	
VHO-412	4.125	4-1/8	104.8	4.433	+.006 -.000 .006*	.089	+.008 -.000	.154	4.558	±.065	.109	±.003	.082	±.0025	97.0	3.36	3.51	
VHO-425	4.250	4-1/4	108.0	4.562		.089		.156	4.691		.109		.082		101.0	3.48	3.63	
VHO-433	4.331	-	110.0	4.647		.089		.158	4.756		.109		.082		105.0	3.50	3.65	
VHO-450	4.500	4-1/2	114.3	4.824		.089		.162	4.940		.109		.082		111.00	3.66	3.81	
VHO-462	4.625	4-5/8	117.5	4.955		.089		.165	5.076		.109		.082		117.00	3.79	3.95	
VHO-475	4.724	-	120.0	5.060		.089		.168	5.213		.109		.082		124.0	3.88	4.04	
VHO-475	4.750	4-3/4	120.6	5.086		.089		.168	5.213		.109		.082		124.0	3.90	4.06	
VHO-500	5.000	5	127.0	5.346		.089		.173	5.485		.109		.082		136.0	4.08	4.25	
VHO-525	5.250	5-1/4	133.3	5.612	+.007 -.000 .006*	.102	+.010 -.000	.181	5.770	±.080	.125	±.004	.095	±.003	174.0	4.35	4.52	
VHO-537	5.375	5-3/8	136.5	5.739		.102		.182	5.910		.125		.095		179.0	4.45	4.62	
VHO-550	5.500	5-1/2	139.7	5.864		.102		.182	6.066		.125		.095		183.0	4.57	4.74	
VHO-575	5.750	5-3/4	146.0	6.120		.102		.185	6.336		.125		.095		192.0	4.82	5.00	
VHO-600	6.000	6	152.4	6.374		.102		.187	6.620		.125		.095		201.0	5.07	5.25	
VHO-625	6.250	6-1/4	158.7	6.642		.129		.196	6.895		.156		.121		266.0	5.24	5.43	
VHO-650	6.500	6-1/2	165.1	6.908		.129		.204	7.170		.156		.121		281.0	5.49	5.68	
VHO-662	6.625	6-5/8	168.3	7.042		.129		.208	7.308		.156		.121		305.0	5.60	5.80	
VHO-675	6.750	6-3/4	171.4	7.174	+.008 -.000 .006	.128	+.010 -.000	.212	7.445	±.090	.156	±.005	.120	±.003	325.0	5.68	5.88	
VHO-700	7.000	7	177.8	7.441		.128		.220	7.720		.156		.120		344.0	5.91	6.12	
VHO-725	7.250	7-1/4	184.1	7.708		.159		.229	7.995		.187		.150		428.0	6.11	6.33	
VHO-750	7.500	7-1/2	190.5	7.974		.159		.237	8.270		.187		.150		485.0	6.36	6.59	
VHO-775	7.750	7-3/4	196.8	8.240		.159		.245	8.545		.187		.150		520.0	6.58	6.82	
VHO-800	8.000	8	203.2	8.507		.155		.253	8.820		.187		.146		555.0	6.83	7.07	
VHO-825	8.250	8-1/4	209.5	8.773		.155		.261	9.095		.187		.146		603.0	7.04	7.29	
VHO-850	8.500	8-1/2	215.9	9.040		.151		.270	9.285		.187		.142		634.0	7.29	7.55	
VHO-875	8.750	8-3/4	222.2	9.307		.151		.278	9.558		.187		.142		653.0	7.38	7.65	
VHO-900	9.000	9	228.6	9.573		.151		.286	9.830		.187		.142		732.0	7.63	7.91	
VHO-925	9.250	9-1/4	235.0	9.838		.151		.294	10.102		.187		.142		767.0	7.88	8.16	
VHO-950	9.500	9-1/2	241.3	10.106		.147		.303	10.375		.187		.138		803.0	7.98	8.27	
VHO-975	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	

† BASED ON HOUSINGS/SHAFTS MADE OF COLD ROLLED STEEL.

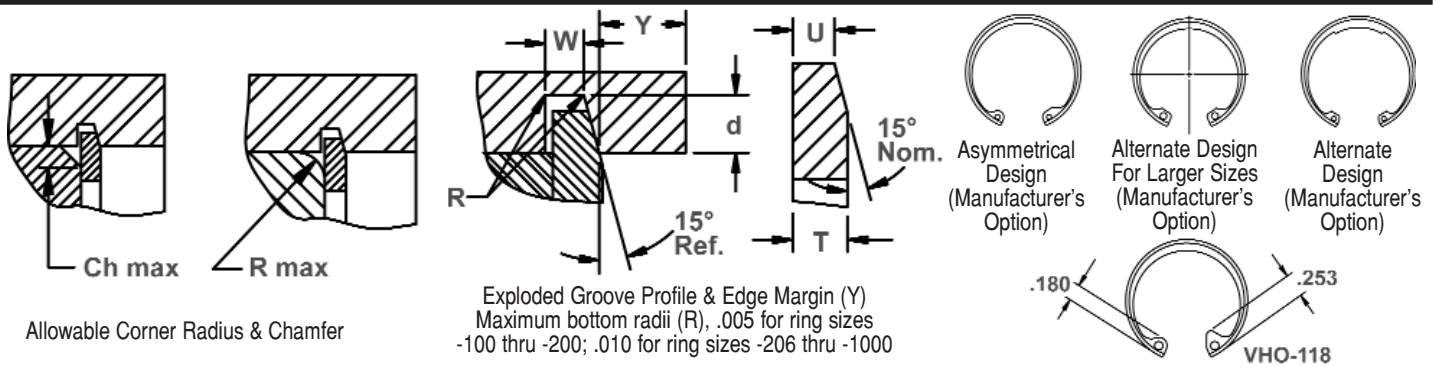
NOTE: CONTACT ROTOR CLIP FOR AVAILABILITY OF SIZES LISTED.

* 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.

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

RING TYPE	SIZE RANGE	SCALE	ROCKWELL HARDNESS
VHO	100&102	30N	63-69.5
	106+	C	44-51



RING NO.	ALLOWABLE CORNER RADII & CHAMFERS		MAX. LOAD w/ R max or Ch max (in lbs.)	EDGE MARGIN	END-PLAY TAKE-UP	LUG HEIGHT		MAXIMUM SECTION		MINIMUM SECTION		HOLE DIAMETER		GAP WIDTH Ring in groove	THRUST LD. (lbs.) Sqr. corner abutment	
															Ring Safety factor of 4	Groove Safety factor of 2
	R max	Ch max				P'r	Y	In.	H	Tol.	S max	Tol.	S min		Tol.	R
VHO-412	.130	.104	12000	.231	.021	.370	±.008	.330		.171		.125	+.015	.718	64554	26900
VHO-425	.138	.110	12000	.234	.021	.370		.335		.180		.125	-.002	.743	66483	28100
VHO-433	.142	.114	12000	.237	.021	.405		.343		.180		.156	.803	67599	29000	
VHO-450	.146	.117	12000	.243	.022	.405		.351		.181		.156	.787	70340	30900	
VHO-462	.151	.121	12000	.247	.022	.405		.405		.183		.156	.822	72370	32400	
VHO-475	.154	.123	12000	.252	.023	.405		.370		.183		.156	.773	74298	33800	
VHO-475	.154	.123	12000	.252	.023	.405		.370		.183		.156	.843	74298	33800	
VHO-500	.158	.126	12000	.259	.023	.435		.435	±.009	.186	±.009	.156	.753	78155	38700	
VHO-525	.168	.134	15000	.271	.024	.435		.435		.198		.156	.886	94091	40300	
VHO-537	.168	.134	15000	.273	.024	.435		.435		.198		.156	.893	96324	41500	
VHO-550	.168	.134	15000	.273	.024	.435		.435		.198		.156	.879	98658	42500	
VHO-575	.168	.134	15000	.277	.025	.435		.435		.198		.156	.905	103124	45100	
VHO-600	.168	.134	15000	.280	.025	.435		.435		.198		.156	.929	107489	47600	
VHO-625	.177	.142	23000	.294	.026	.485				.485			.211	+.020 -.005	.187	.956
VHO-650	.181	.145	23000	.306	.027	.485	.485		.219	.187	1.040		145450		56200	
VHO-662	.183	.146	23000	.312	.028	.485	.485		.221	.187	1.063		148190		58400	
VHO-675	.188	.150	23000	.318	.028	.515	.515		.224	.187	.985		151032		60700	
VHO-700	.196	.157	23000	.330	.029	.515	±.010		.515	.232	.187		1.037		156615	65300
VHO-725	.202	.162	34000	.343	.031	.545	.545		.238	.187	1.085		194373		70400	
VHO-750	.208	.166	34000	.355	.032	.545	.545		.247	.187	1.138		201173		75400	
VHO-775	.214	.171	34000	.367	.033	.560	±.010	.560	±.010	.255	±.010	.187	1.178	207872	80500	
VHO-800	.220	.176	34000	.379	.034	.560		.560		.262		.187	1.238	214571	85800	
VHO-825	.229	.183	34000	.391	.035	.580		.580		.270		.187	1.269	221270	91300	
VHO-850	.235	.188	34000	.405	.036	.580		.591		.277		.187	1.444	227969	97300	
VHO-875	.241	.193	34000	.417	.037	.660		.591		.286		.187	1.481	233856	103200	
VHO-900	.249	.199	34000	.429	.038	.660		.609		.294		.187	1.539	241367	109200	
VHO-925	.253	.202	34000	.441	.039	.660		.625		.299		.187	1.559	248066	115300	
VHO-950	.258	.206	34000	.454	.041	.735		.642		.304		.187	1.596	254765	122100	
VHO-975	.263	.210	34000	.466	.042	.735		.658		.309		.187	1.680	261464	128600	
VHO-1000	.270	.216	34000	.478	.043	.735		.675		.315		.187	1.687	268163	135300	

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

RING TYPE	SIZE RANGE	SCALE	ROCKWELL HARDNESS
VHO	100&102	30N	66-71
	106-347	C	47-52
	350-700	C	44-51
	725-1000	C	40-47

HARDNESS RANGES: BERYLLIUM COPPER RINGS

RING TYPE	SIZE RANGE	SCALE	ROCKWELL HARDNESS
VHO	100&102	30N	54-62
	106+	C	34-43