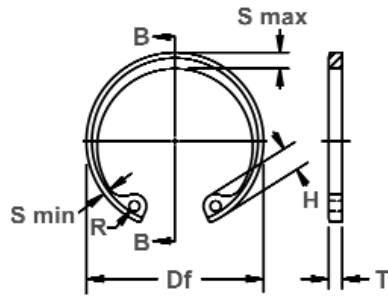




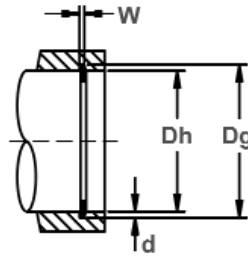
VHO Housing Rings

Axially Assembled, Internal Beveled

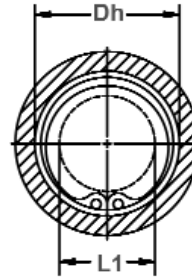
These rings look exactly like their HO counterpart, only they have a 15° angle on the outer edge. This combines with a complementary groove angle to eliminate endplay by wedging itself between the groove and the retained part.



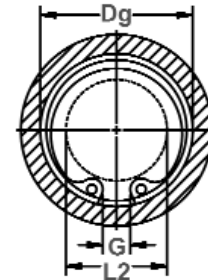
Free Diameter & Ring Measurements with Section B-B



Housing Diameter & Groove Dimensions



Clearance Diameter Compressed in Housing



Clearance Diameter & Gap Width Released in Groove

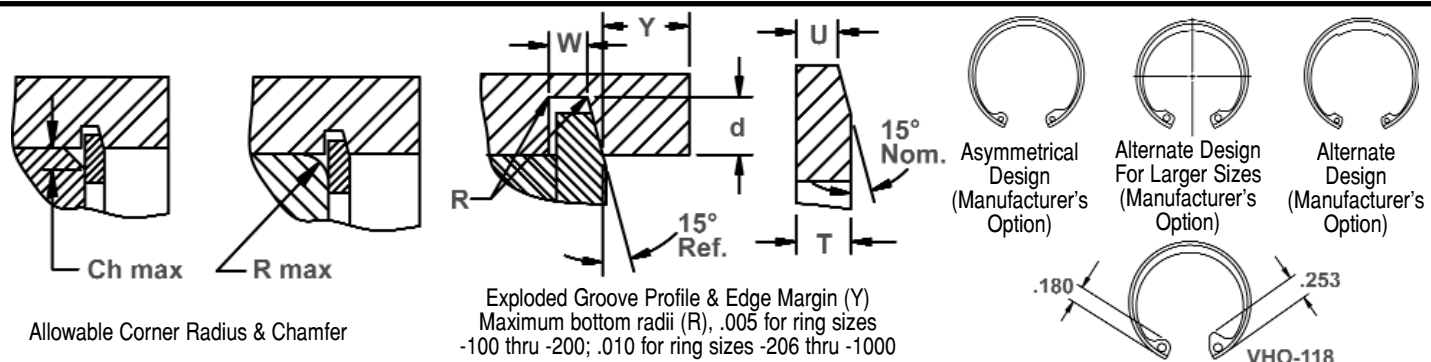
RING NO.	HOUSING DIAMETER			GROOVE SIZE					RING SIZE & WEIGHT						CLEARANCE DIA.		
				DIAMETER		WIDTH		DEPTH	FREE DIAMETER		THICKNESS***		THICKNESS BEVELED END		Weight Per 1000 Pcs.	Compressed in housing	Released in groove
	Dh DEC	Dh FRACT	Dh mm	Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	U	Tol.			
VHO-100	1.000	1	25.4	1.076	+.003	.036		.038	1.111	+.015	.042		.033		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		.050		.041		3.7	.685	.72
VHO-112	1.125	1-1/8	28.6	1.205		.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	+.025	.050	±.002	.039		4.8	.875	.92
VHO-125	1.259	-	32.0	1.351	+.004	.042		.046	1.388	-.020	.050		.039		4.8	.885	.93
VHO-131	1.312	1-5/16	33.3	1.408	-.000	.042		.048	1.456		.050		.039		5.0	.93	.97
VHO-137	1.375	1-3/8	34.9	1.475	.005*	.041		.050	1.526		.050		.038		5.1	.99	1.03
VHO-137	1.378	-	35.0	1.478		.041	+.005	.050	1.526		.050		.038	±.001	5.1	.99	1.03
VHO-143	1.438	1-7/16	36.5	1.542		.040	-.000	.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		.052		.056	1.734		.062		.048		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	+.005	.050		.061	1.874	+.035	.062		.046		10.8	1.21	1.27
VHO-175	1.750	1-3/4	44.4	1.878	-.000	.050		.064	1.942	-.025	.062		.046		10.3	1.27	1.32
VHO-181	1.812	1-13/16	46.0	1.944	.005*	.050		.066	2.012		.062	±.003	.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		.065		.074	2.280		.078		.060		18.0	1.52	1.59
VHO-206	2.062	2-1/16	52.4	2.210	+.006	.065	+.007	.074	2.280	+.040	.078		.060	±.0015	18.0	1.54	1.61
VHO-212	2.125	2-1/8	54.0	2.279	-.000	.065	-.000	.077	2.350	-.030	.078		.060		19.4	1.60	1.67
VHO-218	2.165	-	55.0	2.327	.006*	.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	THRUST LD. (lbs.) Sqr. corner abutment	
	R max	Ch max				Y	In.	H	Tol.	S max	Tol.	S min	Tol.		R	Tol.
	P'r	(lbs.)														
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

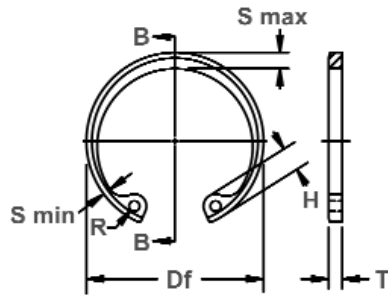
FOR HARDNESS SPECIFICATIONS, SEE END OF THIS SECTION.



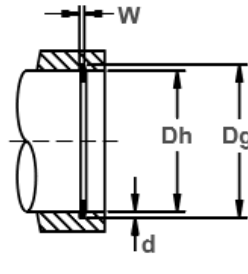
VHO Housing Rings

Axially Assembled, Internal Beveled

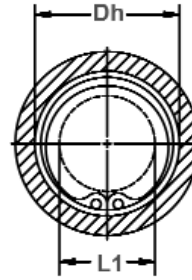
These rings look exactly like their HO counterpart, only they have a 15° angle on the outer edge. This combines with a complementary groove angle to eliminate endplay by wedging itself between the groove and the retained part.



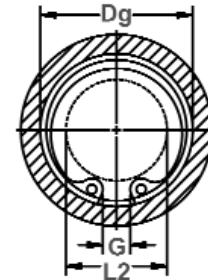
Free Diameter & Ring Measurements with Section B-B



Housing Diameter & Groove Dimensions



Clearance Diameter Compressed in Housing



Clearance Diameter & Gap Width Released in Groove

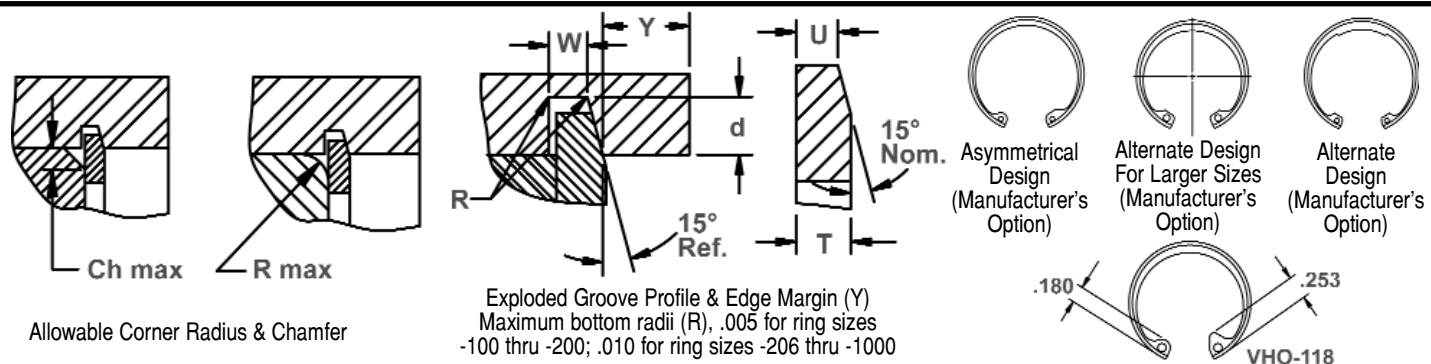
RING NO.	HOUSING DIAMETER			GROOVE SIZE					RING SIZE & WEIGHT						CLEARANCE DIA.		
				DIAMETER		WIDTH		DEPTH	FREE DIAMETER		THICKNESS***		THICKNESS BEVELED END		Weight. Per 1000 Pcs.	Compressed in housing	Released in groove
	Dh DEC	Dh FRACT	Dh mm	Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	U	Tol.	lbs.	L1	L2
VHO-225	2.250	2-1/4	57.1	2.420		.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	±.0015	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	+ .007	.094	2.844	+ .040	.093		.072		34.0	1.93	2.02
VHO-262	2.625	2-5/8	66.7	2.820		.077	- .000	.097	2.910	- .030	.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		.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	+ .006	.076		.104	3.121		.093		.070		36.0	2.21	2.31
VHO-287	2.875	2-7/8	73.0	3.085	- .000	.076		.105	3.191		.093	±.003	.070		41.0	2.24	2.34
VHO-295	2.953	-	75.0	3.178	.006*	.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-334	3.346	3-11/32	85.0	3.591		.089	+ .008	.122	3.734		.109		.082		65.0	2.63	2.74
VHO-347	3.469	3-15/32	88.1	3.726		.089	- .000	.128	3.857		.109		.082	±.0025	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		.132	3.936		.109		.082		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

† 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.) Sqr. corner abutment	
	R max	Ch max				Pr	Y	In.	H	Tol.	S max	Tol.	S min		Tol.	R
			(lbs.)													
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-295	.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-334	.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-354	.110	.088	12000	.198	.0175	.342		.292		.142		.125		.586	55419	19800
VHO-354	.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

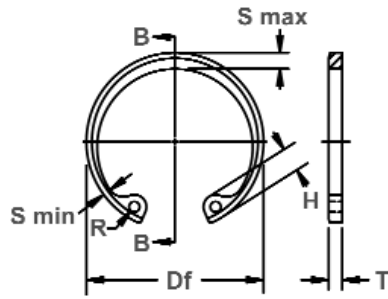
FOR HARDNESS SPECIFICATIONS, SEE END OF THIS SECTION.



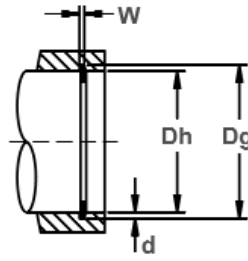
VHO Housing Rings

Axially Assembled, Internal Beveled

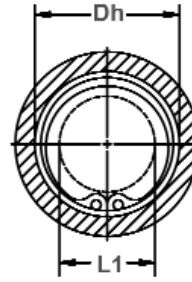
These rings look exactly like their HO counterpart, only they have a 15° angle on the outer edge. This combines with a complementary groove angle to eliminate endplay by wedging itself between the groove and the retained part.



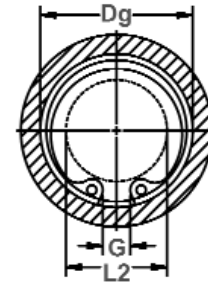
Free Diameter & Ring Measurements with Section B-B



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.	Compressed in housing	Released in groove
	Dh DEC	Dh FRACT	Dh mm	Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	U	Tol.			
VHO-412	4.125	4-1/8	104.8	4.433		.089		.154	4.558		.109		.082		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	+.006	.089	+.008	.158	4.756		.109		.082		105.0	3.50	3.65
VHO-450	4.500	4-1/2	114.3	4.824	-.000	.089	-.000	.162	4.940		.109	±.003	.082	±.0025	111.00	3.66	3.81
VHO-462	4.625	4-5/8	117.5	4.955	.006*	.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	±.065	.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		.102		.181	5.770		.125		.095		174.0	4.35	4.52
VHO-537	5.375	5-3/8	136.5	5.739	+.007	.102		.182	5.910		.125		.095		179.0	4.45	4.62
VHO-550	5.500	5-1/2	139.7	5.864	-.000	.102		.182	6.066		.125	±.004	.095		183.0	4.57	4.74
VHO-575	5.750	5-3/4	146.0	6.120	.006*	.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	±.080	.156		.121		305.0	5.60	5.80
VHO-675	6.750	6-3/4	171.4	7.174		.128	+.010	.212	7.445		.156		.120		325.0	5.68	5.88
VHO-700	7.000	7	177.8	7.441		.128	-.000	.220	7.720		.156		.120		344.0	5.91	6.12
VHO-725	7.250	7-1/4	184.1	7.708	+.008	.159		.229	7.995		.187		.150	±.003	428.0	6.11	6.33
VHO-750	7.500	7-1/2	190.5	7.974	-.000	.159		.237	8.270		.187		.150		485.0	6.36	6.59
VHO-775	7.750	7-3/4	196.8	8.240	.006	.159		.245	8.545		.187	±.005	.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	±.090	.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.

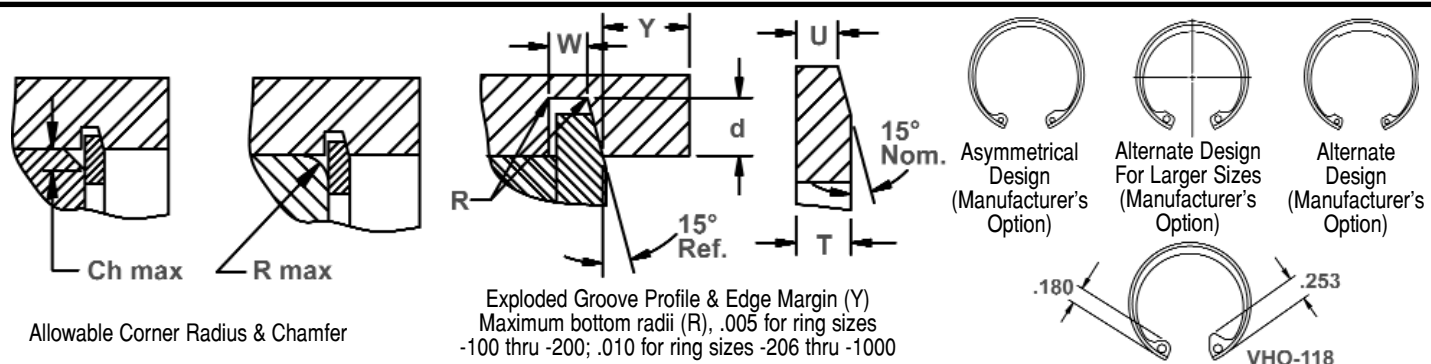
NOTE: CONTACT ROTOR CLIP FOR AVAILABILITY OF SIZES LISTED.

* 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					
	R max	Ch max				Pr (lbs.)	Y	In.	H	Tol.	S max	Tol.	S min		Tol.	R	Tol.	G min	Pr	Pg
VHO-412	.130	.104	12000	.231	.021	.370		.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	+ .015	.351		.181		.156		.787	70340	30900				
VHO-462	.151	.121	12000	.247	.022	.405	-.002	.360		.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		.390		.186		.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	± .009	.198	± .009	.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		.187	+.020	.956	139766	52000				
VHO-650	.181	.145	23000	.306	.027	.485		.485		.219		.187	-.005	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		.560		.255		.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	± .010	.270	± .010	.187		1.269	221270	91300				
VHO-850	.235	.188	34000	.405	.036	.580		.580		.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