


## GH profile data

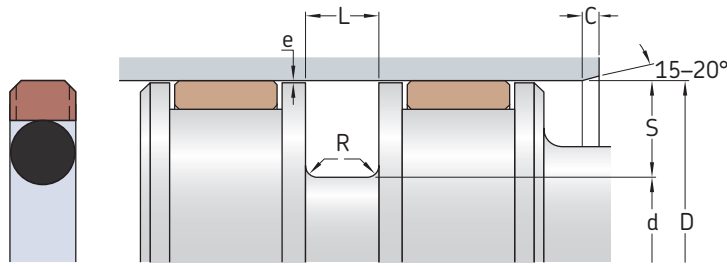


<b>Material codes</b>	Slide ring: metric sizes → 292 inch sizes → 741 Energizer: metric sizes → N70/6052 inch sizes → A-8501
<b>Pressure</b>	Up to 400 bar (5 800 psi)
<b>Speed</b>	Up to 1 m/s (3.2 ft/s)
<b>Temperature range</b>	 <p> <span style="color: blue;">■</span> Extreme low temperature range: may be intermittently exposed (e.g. cold start-up) without seal damage, but seal performance may be compromised while in this range  <span style="color: grey;">■</span> Temperatures below the recommended operating range: seal performance depends on system design (precision guiding arrangement recommended)  <span style="color: green;">■</span> <b>Recommended operating temperature range for this profile and material</b>  <span style="color: yellow;">■</span> Temperatures above the recommended operating range: acceptable only with reduced pressure, speed, and/or e-gap  <span style="color: red;">■</span> Extreme high temperature range: only occasional short-term exposure (e.g. cylinder in curing oven of a powder coating process)         </p>
<b>Dimension standards</b>	Some metric sizes fit seal housings in accordance with ISO 7425-1.

Maximum values of application parameters (e.g. pressure, speed, temperature, e-gap) should not be applied continuously nor simultaneously.

## GH profile piston seals, metric sizes

D 14 – 70 mm



### Maximum extrusion gap e

Radial depth S	e <sub>max</sub> at 80 °C (175 °F) for pressures		
	160 bar	250 bar	400 bar

mm	mm		
2,45	0,35	0,25	0,15
3,75	0,35	0,25	0,15
5,5	0,4	0,3	0,2
7,75	0,5	0,35	0,25
10,5	0,6	0,45	0,35

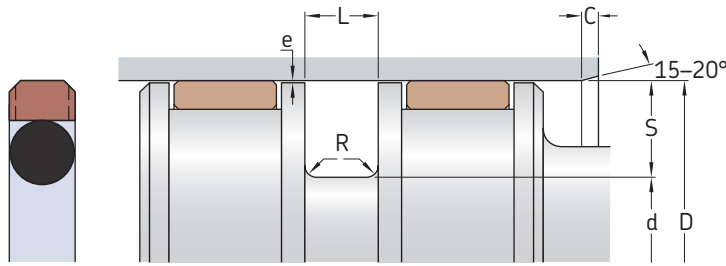
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Dimensions						Designation
D H9	d h9	L +0,2	S	R max.	C min.	
mm						–
14	9,1	2,2	2,45	0,5	3	GH 14x9.1x2.2-AD1
18	10,5	3,2	3,75	0,5	5	GH 18x10.5x3.2-AD1
20	12,5	3,2	3,75	0,5	5	• GH 20x12.5x3.2-AD1
	15,1	2,2	2,45	0,5	3	GH 20x15,1x2.2-AD1
22	14,5	3,2	3,75	0,5	5	GH 22x14.5x3.2-AD1
25	17,5	3,2	3,75	0,5	5	• GH 25x17.5x3.2-AD1
28	20,5	3,2	3,75	0,5	5	GH 28x20.5x3.2-AD1
30	22,5	3,2	3,75	0,5	5	GH 30x22.5x3.2-AD1
32	24,5	3,2	3,75	0,5	5	• GH 32x24.5x3.2-AD1
35	27,5	3,2	3,75	0,5	5	GH 35x27.5x3.2-AD1
36	28,5	3,2	3,75	0,5	5	GH 36x28.5x3.2-AD1
40	29	4,2	5,5	0,5	7	• GH 40x29x4.2-AD1
	32,5	3,2	3,75	0,5	5	• GH 40x32.5x3.2-AD1
45	34	4,2	5,5	0,5	7	GH 45x34x4.2-AD1
	37,5	3,2	3,75	0,5	5	GH 45x37.5x3.2-AD1
50	34,5	6,3	7,75	0,5	10	• GH 50x34.5x6.3-AD1
	39	4,2	5,5	0,5	7	• GH 50x39x4.2-AD1
60	49	4,2	5,5	0,5	7	GH 60x49x4.2-AD1
63	52	4,2	5,5	0,5	7	• GH 63x52x4.2-AD1
65	54	4,2	5,5	0,9	7	GH 65x54x4.2-AD1
70	59	4,2	5,5	0,9	7	GH 70x59x4.2-AD1

• Seal housing dimensions in accordance with ISO 7425-1

## GH profile piston seals, metric sizes

D 75 – 200 mm



### Maximum extrusion gap e

Radial depth S	e <sub>max</sub> at 80 °C (175 °F) for pressures		
	160 bar	250 bar	400 bar

mm	mm		
2,45	0,35	0,25	0,15
3,75	0,35	0,25	0,15
5,5	0,4	0,3	0,2
7,75	0,5	0,35	0,25
10,5	0,6	0,45	0,35

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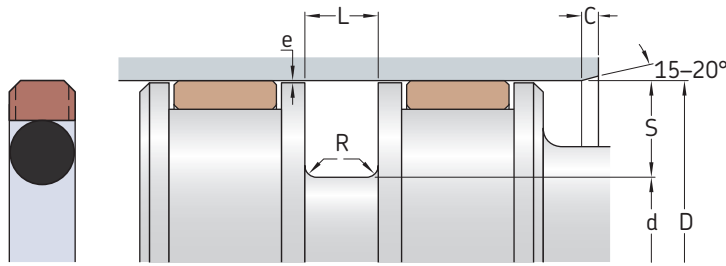
Dimensions						Designation
D	d	L	S	R	C	
H9	h9	+0,2		max.	min.	
mm						–
75	59,5	6,3	7,75	0,9	10	GH 75x59.5x6.3-AD1
	64	4,2	5,5	0,9	7	GH 75x64x4.2-AD1
80	64,5	6,3	7,75	0,9	10	• GH 80x64.5x6.3-AD1
	69	4,2	5,5	0,9	7	• GH 80x69x4.2-AD1
85	69,5	6,3	7,75	0,9	10	GH 85x69.5x6.3-AD1
	74	4,2	5,5	0,9	7	GH 85x74x4.2-AD1
90	74,5	6,3	7,75	0,9	10	GH 90x74.5x6.3-AD1
	79	4,2	5,5	0,9	7	GH 90x79x4.2-AD1
95	79,5	6,3	7,75	0,9	10	GH 95x79.5x6.3-AD1
	84	4,2	5,5	0,9	7	GH 95x84x4.2-AD1
100	79	8,1	10,5	0,9	12	GH 100x79x8.1-AD1
	84,5	6,3	7,75	0,9	10	• GH 100x84.5x6.3-AD1
105	89,5	6,3	7,75	0,9	10	GH 105x89.5x6.3-AD1
110	94,5	6,3	7,75	0,9	10	GH 110x94.5x6.3-AD1
115	99,5	6,3	7,75	0,9	10	GH 115x99.5x6.3-AD1
120	104,5	6,3	7,75	0,9	10	GH 120x104.5x6.3-AD1
125	104	8,1	10,5	0,9	12	• GH 125x104x8.1-AD1
	109,5	6,3	7,75	0,9	10	• GH 125x109.5x6.3-AD1
130	109	8,1	10,5	0,9	12	GH 130x109x8.1-AD1
	114,5	6,3	7,75	0,9	10	GH 130x114.5x6.3-AD1
140	119	8,1	10,5	0,9	12	GH 140x119x8.1-AD1
	124,5	6,3	7,75	0,9	10	GH 140x124.5x6.3-AD1
150	129	8,1	10,5	0,9	12	GH 150x129x8.1-AD1
	134,5	6,3	7,75	0,9	10	GH 150x134.5x6.3-AD1

• Seal housing dimensions in accordance with ISO 7425-1

Dimensions						Designation
D	d	L	S	R	C	
H9	h9	+0,2		max.	min.	
mm						-
160	139	8,1	10,5	0,9	12	• GH 160x139x8.1-AD1
	144,5	6,3	7,75	0,9	10	• GH 160x144.5x6.3-AD1
170	149	8,1	10,5	0,9	12	GH 170x149x8.1-AD1
180	159	8,1	10,5	0,9	12	GH 180x159x8.1-AD1
190	169	8,1	10,5	0,9	12	GH 190x169x8.1-AD1
200	179	8,1	10,5	0,9	12	• GH 200x179x8.1-AD1

Other sizes are available on request

**GH profile piston seals, inch sizes**  
**D 0.5 – 2.375 in.**



**Maximum extrusion gap e**

**Radial Series e<sub>max</sub> at 80 °C (175 °F)**  
**depth for pressures**  
 S 2 300 psi 3 600 psi 5 800 psi

in.	–	in.		
<b>0.087</b>	0A	0.014	0.01	0.006
<b>0.13</b>	0D	0.014	0.01	0.006
<b>0.149</b>	1A	0.014	0.01	0.006
<b>0.196</b>	1D	0.015	0.011	0.007
<b>0.212</b>	2A	0.016	0.012	0.008
<b>0.259</b>	2D	0.018	0.013	0.009
<b>0.308</b>	3A	0.02	0.014	0.01
<b>0.415</b>	4A	0.024	0.018	0.014

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**Dimensions**

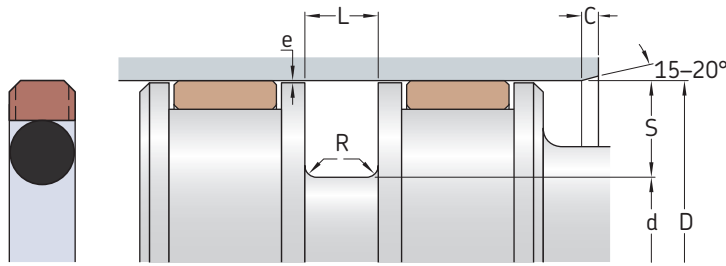
**Designation**

D	Tolerance	d	Tolerance	L ±0.002	S	R max.	C min.	Designation
in.								–
<b>0.5</b>	+0.002	0.24	±0.002	0.083	0.13	0.015	0.1	<b>GH0D-500-AD1</b>
	+0.002	0.326	±0.001	0.083	0.087	0.015	0.08	<b>GH0A-500-AD1</b>
<b>0.562</b>	+0.002	0.302	±0.002	0.083	0.13	0.015	0.1	<b>GH0D-562-AD1</b>
	+0.002	0.388	±0.001	0.083	0.087	0.015	0.08	<b>GH0A-562-AD1</b>
<b>0.625</b>	+0.002	0.365	±0.002	0.083	0.13	0.015	0.1	<b>GH0D-625-AD1</b>
	+0.002	0.451	±0.001	0.083	0.087	0.015	0.08	<b>GH0A-625-AD1</b>
<b>0.687</b>	+0.002	0.389	±0.001	0.128	0.149	0.015	0.125	<b>GH1A-687-AD1</b>
	+0.002	0.427	±0.002	0.083	0.13	0.015	0.1	<b>GH0D-687-AD1</b>
	+0.002	0.513	±0.001	0.083	0.087	0.015	0.08	<b>GH0A-687-AD1</b>
<b>0.75</b>	+0.002	0.452	±0.001	0.128	0.149	0.015	0.125	<b>GH1A-750-AD1</b>
	+0.002	0.49	±0.002	0.083	0.13	0.015	0.1	<b>GH0D-750-AD1</b>
	+0.002	0.576	±0.001	0.083	0.087	0.015	0.08	<b>GH0A-750-AD1</b>
<b>0.812</b>	+0.002	0.514	±0.001	0.128	0.149	0.015	0.125	<b>GH1A-812-AD1</b>
	+0.002	0.552	±0.002	0.083	0.13	0.015	0.1	<b>GH0D-812-AD1</b>
	+0.002	0.638	±0.001	0.083	0.087	0.015	0.08	<b>GH0A-812-AD1</b>
<b>0.875</b>	+0.002	0.577	±0.001	0.128	0.149	0.015	0.125	<b>GH1A-875-AD1</b>
	+0.002	0.615	±0.002	0.083	0.13	0.015	0.1	<b>GH0D-875-AD1</b>
	+0.002	0.701	±0.001	0.083	0.087	0.015	0.08	<b>GH0A-875-AD1</b>
<b>0.937</b>	+0.002	0.639	±0.001	0.128	0.149	0.015	0.125	<b>GH1A-937-AD1</b>
	+0.002	0.677	±0.002	0.083	0.13	0.015	0.1	<b>GH0D-937-AD1</b>
	+0.002	0.763	±0.001	0.083	0.087	0.015	0.08	<b>GH0A-937-AD1</b>
<b>1</b>	+0.002	0.702	±0.001	0.128	0.149	0.015	0.125	<b>GH1A-1000-AD1</b>
	+0.002	0.74	±0.002	0.083	0.13	0.015	0.1	<b>GH0D-1000-AD1</b>
	+0.002	0.826	±0.001	0.083	0.087	0.015	0.08	<b>GH0A-1000-AD1</b>
<b>1.062</b>	+0.002	0.764	±0.001	0.128	0.149	0.015	0.125	<b>GH1A-1062-AD1</b>
	+0.002	0.802	±0.002	0.083	0.13	0.015	0.1	<b>GH0D-1062-AD1</b>
	+0.002	0.888	±0.001	0.083	0.087	0.015	0.08	<b>GH0A-1062-AD1</b>
<b>1.125</b>	+0.002	0.827	±0.001	0.128	0.149	0.015	0.125	<b>GH1A-1125-AD1</b>
	+0.002	0.865	±0.002	0.083	0.13	0.015	0.1	<b>GH0D-1125-AD1</b>
	+0.002	0.951	±0.001	0.083	0.087	0.015	0.08	<b>GH0A-1125-AD1</b>

Dimensions								Designation
D	Tolerance	d	Tolerance	L ±0.002	S	R max.	C min.	
in.								-
1.187	+0.002	0.889	±0.001	0.128	0.149	0.015	0.125	GH1A-1187-AD1
	+0.002	0.927	±0.002	0.083	0.13	0.015	0.1	GH0D-1187-AD1
	+0.002	1.013	±0.001	0.083	0.087	0.015	0.08	GH0A-1187-AD1
1.25	+0.002	0.952	±0.001	0.128	0.149	0.015	0.125	GH1A-1250-AD1
	+0.002	0.99	±0.002	0.083	0.13	0.015	0.1	GH0D-1250-AD1
	+0.002	1.076	±0.001	0.083	0.087	0.015	0.08	GH0A-1250-AD1
1.312	+0.002	1.014	±0.001	0.128	0.149	0.015	0.125	GH1A-1312-AD1
	+0.002	1.052	±0.002	0.083	0.13	0.015	0.1	GH0D-1312-AD1
	+0.002	1.138	±0.001	0.083	0.087	0.015	0.08	GH0A-1312-AD1
1.375	+0.002	1.077	±0.001	0.128	0.149	0.015	0.125	GH1A-1375-AD1
	+0.002	1.115	±0.002	0.083	0.13	0.015	0.1	GH0D-1375-AD1
	+0.002	1.201	±0.001	0.083	0.087	0.015	0.08	GH0A-1375-AD1
1.437	+0.002	1.139	±0.001	0.128	0.149	0.015	0.125	GH1A-1437-AD1
	+0.002	1.177	±0.002	0.083	0.13	0.015	0.1	GH0D-1437-AD1
	+0.002	1.263	±0.001	0.083	0.087	0.015	0.08	GH0A-1437-AD1
1.5	+0.002	1.202	±0.001	0.128	0.149	0.015	0.125	GH1A-1500-AD1
	+0.002	1.24	±0.002	0.083	0.13	0.015	0.1	GH0D-1500-AD1
	+0.002	1.326	±0.001	0.083	0.087	0.015	0.08	GH0A-1500-AD1
1.562	+0.002	1.138	±0.002	0.168	0.212	0.015	0.14	GH2A-1562-AD1
	+0.002	1.17	±0.002	0.122	0.196	0.015	0.125	GH1D-1562-AD1
	+0.002	1.264	±0.001	0.128	0.149	0.015	0.125	GH1A-1562-AD1
1.625	+0.002	1.201	±0.002	0.168	0.212	0.015	0.14	GH2A-1625-AD1
	+0.002	1.233	±0.002	0.122	0.196	0.015	0.125	GH1D-1625-AD1
	+0.002	1.327	±0.001	0.128	0.149	0.015	0.125	GH1A-1625-AD1
1.687	+0.002	1.263	±0.002	0.168	0.212	0.015	0.14	GH2A-1687-AD1
	+0.002	1.295	±0.002	0.122	0.196	0.015	0.125	GH1D-1687-AD1
	+0.002	1.389	±0.001	0.128	0.149	0.015	0.125	GH1A-1687-AD1
1.75	+0.002	1.326	±0.002	0.168	0.212	0.015	0.14	GH2A-1750-AD1
	+0.002	1.358	±0.002	0.122	0.196	0.015	0.125	GH1D-1750-AD1
	+0.002	1.452	±0.001	0.128	0.149	0.015	0.125	GH1A-1750-AD1
1.812	+0.002	1.388	±0.002	0.168	0.212	0.015	0.14	GH2A-1812-AD1
	+0.002	1.42	±0.002	0.122	0.196	0.015	0.125	GH1D-1812-AD1
	+0.002	1.514	±0.001	0.128	0.149	0.015	0.125	GH1A-1812-AD1
1.875	+0.002	1.451	±0.002	0.168	0.212	0.015	0.14	GH2A-1875-AD1
	+0.002	1.483	±0.002	0.122	0.196	0.015	0.125	GH1D-1875-AD1
	+0.002	1.577	±0.001	0.128	0.149	0.015	0.125	GH1A-1875-AD1
1.937	+0.002	1.513	±0.002	0.168	0.212	0.015	0.14	GH2A-1937-AD1
	+0.002	1.545	±0.002	0.122	0.196	0.015	0.125	GH1D-1937-AD1
	+0.002	1.639	±0.001	0.128	0.149	0.015	0.125	GH1A-1937-AD1
2	+0.002	1.576	±0.002	0.168	0.212	0.015	0.14	GH2A-2000-AD1
	+0.002	1.608	±0.002	0.129	0.196	0.015	0.125	GH1D-2000-AD1
	+0.002	1.702	±0.001	0.128	0.149	0.015	0.125	GH1A-2000-AD1
2.125	+0.002	1.701	±0.002	0.168	0.212	0.015	0.14	GH2A-2125-AD1
	+0.002	1.733	±0.002	0.129	0.196	0.015	0.125	GH1D-2125-AD1
	+0.002	1.827	±0.001	0.128	0.149	0.015	0.125	GH1A-2125-AD1
2.25	+0.002	1.826	±0.002	0.168	0.212	0.015	0.14	GH2A-2250-AD1
	+0.002	1.858	±0.002	0.129	0.196	0.015	0.125	GH1D-2250-AD1
	+0.002	1.952	±0.001	0.128	0.149	0.015	0.125	GH1A-2250-AD1
2.375	+0.002	1.951	±0.002	0.168	0.212	0.015	0.14	GH2A-2375-AD1
	+0.002	1.983	±0.002	0.129	0.196	0.015	0.125	GH1D-2375-AD1
	+0.002	2.077	±0.001	0.128	0.149	0.015	0.125	GH1A-2375-AD1

# GH profile piston seals, inch sizes

D 2.5 – 5.625 in.



### Maximum extrusion gap e

Radial Series  $e_{max}$  at 80 °C (175 °F)  
depth for pressures  
S 2 300 psi 3 600 psi 5 800 psi

in.		in.		
<b>0.087</b>	0A	0.014	0.01	0.006
<b>0.13</b>	0D	0.014	0.01	0.006
<b>0.149</b>	1A	0.014	0.01	0.006
<b>0.196</b>	1D	0.015	0.011	0.007
<b>0.212</b>	2A	0.016	0.012	0.008
<b>0.259</b>	2D	0.018	0.013	0.009
<b>0.308</b>	3A	0.02	0.014	0.01
<b>0.415</b>	4A	0.024	0.018	0.014

For additional information → page 34

### Dimensions

### Designation

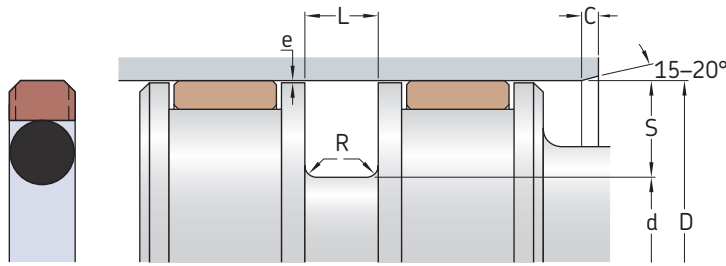
D	Tolerance	d	Tolerance	L ±0.002	S	R max.	C min.	Designation
in.								–
2.5	+0.002	2.076	±0.002	0.168	0.212	0.015	0.14	GH2A-2500-AD1
	+0.002	2.108	±0.002	0.129	0.196	0.015	0.125	GH1D-2500-AD1
	+0.002	2.202	±0.001	0.128	0.149	0.015	0.125	GH1A-2500-AD1
2.625	+0.002	2.201	±0.002	0.168	0.212	0.015	0.14	GH2A-2625-AD1
	+0.002	2.233	±0.002	0.129	0.196	0.015	0.125	GH1D-2625-AD1
	+0.002	2.327	±0.001	0.128	0.149	0.015	0.125	GH1A-2625-AD1
2.75	+0.002	2.326	±0.002	0.168	0.212	0.015	0.14	GH2A-2750-AD1
	+0.002	2.358	±0.002	0.129	0.196	0.015	0.125	GH1D-2750-AD1
	+0.002	2.452	±0.001	0.128	0.149	0.015	0.125	GH1A-2750-AD1
2.875	+0.002	2.451	±0.002	0.168	0.212	0.015	0.14	GH2A-2875-AD1
	+0.002	2.483	±0.002	0.129	0.196	0.015	0.125	GH1D-2875-AD1
	+0.002	2.577	±0.001	0.128	0.149	0.015	0.125	GH1A-2875-AD1
3	+0.002	2.576	±0.002	0.168	0.212	0.015	0.14	GH2A-3000-AD1
	+0.002	2.608	±0.002	0.129	0.196	0.015	0.125	GH1D-3000-AD1
	+0.002	2.702	±0.001	0.128	0.149	0.015	0.125	GH1A-3000-AD1
3.125	+0.002	2.509	±0.003	0.249	0.308	0.025	0.2	GH3A-3125-AD1
	+0.002	2.701	±0.002	0.168	0.212	0.015	0.14	GH2A-3125-AD1
	+0.003	2.733	±0.002	0.129	0.196	0.015	0.125	GH1D-3125-AD1
3.25	+0.002	2.634	±0.003	0.249	0.308	0.025	0.2	GH3A-3250-AD1
	+0.002	2.826	±0.002	0.168	0.212	0.015	0.14	GH2A-3250-AD1
	+0.003	2.858	±0.002	0.129	0.196	0.015	0.125	GH1D-3250-AD1
3.375	+0.002	2.759	±0.003	0.249	0.308	0.025	0.2	GH3A-3375-AD1
	+0.002	2.951	±0.002	0.168	0.212	0.015	0.14	GH2A-3375-AD1
	+0.003	2.983	±0.002	0.129	0.196	0.015	0.125	GH1D-3375-AD1
3.5	+0.002	2.884	±0.003	0.249	0.308	0.025	0.2	GH3A-3500-AD1
	+0.002	3.076	±0.002	0.168	0.212	0.015	0.14	GH2A-3500-AD1
	+0.003	3.108	±0.002	0.129	0.196	0.015	0.125	GH1D-3500-AD1
3.625	+0.002	3.009	±0.003	0.249	0.308	0.025	0.2	GH3A-3625-AD1
	+0.002	3.201	±0.002	0.168	0.212	0.015	0.14	GH2A-3625-AD1
	+0.003	3.233	±0.002	0.129	0.196	0.015	0.125	GH1D-3625-AD1

Dimensions								Designation
D	Tolerance	d	Tolerance	L ±0.002	S	R max.	C min.	
in.								-
3.75	+0.002	3.134	±0.003	0.249	0.308	0.025	0.2	GH3A-3750-AD1
	+0.002	3.326	±0.002	0.168	0.212	0.015	0.14	GH2A-3750-AD1
	+0.003	3.358	±0.002	0.129	0.196	0.015	0.125	GH1D-3750-AD1
3.875	+0.002	3.259	±0.003	0.249	0.308	0.025	0.2	GH3A-3875-AD1
	+0.002	3.451	±0.002	0.168	0.212	0.015	0.14	GH2A-3875-AD1
	+0.003	3.483	±0.002	0.129	0.196	0.015	0.125	GH1D-3875-AD1
4	+0.002	3.384	±0.003	0.249	0.308	0.025	0.2	GH3A-4000-AD1
	+0.002	3.576	±0.002	0.168	0.212	0.015	0.14	GH2A-4000-AD1
	+0.003	3.608	±0.002	0.129	0.196	0.015	0.125	GH1D-4000-AD1
4.125	+0.002	3.509	±0.003	0.249	0.308	0.025	0.2	GH3A-4125-AD1
	+0.002	3.701	±0.002	0.168	0.212	0.015	0.14	GH2A-4125-AD1
	+0.003	3.733	±0.002	0.129	0.196	0.015	0.125	GH1D-4125-AD1
4.25	+0.002	3.634	±0.003	0.249	0.308	0.025	0.2	GH3A-4250-AD1
	+0.002	3.826	±0.002	0.168	0.212	0.015	0.14	GH2A-4250-AD1
	+0.003	3.858	±0.002	0.129	0.196	0.015	0.125	GH1D-4250-AD1
4.375	+0.002	3.759	±0.003	0.249	0.308	0.025	0.2	GH3A-4375-AD1
	+0.002	3.951	±0.002	0.168	0.212	0.015	0.14	GH2A-4375-AD1
	+0.003	3.983	±0.002	0.129	0.196	0.015	0.125	GH1D-4375-AD1
4.5	+0.002	3.884	±0.003	0.249	0.308	0.025	0.2	GH3A-4500-AD1
	+0.002	4.076	±0.002	0.168	0.212	0.015	0.14	GH2A-4500-AD1
	+0.003	4.108	±0.002	0.129	0.196	0.015	0.125	GH1D-4500-AD1
4.625	+0.002	4.009	±0.003	0.249	0.308	0.025	0.2	GH3A-4625-AD1
	+0.002	4.201	±0.002	0.168	0.212	0.015	0.14	GH2A-4625-AD1
	+0.003	4.233	±0.002	0.129	0.196	0.015	0.125	GH1D-4625-AD1
4.75	+0.002	4.134	±0.003	0.249	0.308	0.025	0.2	GH3A-4750-AD1
	+0.002	4.326	±0.002	0.168	0.212	0.015	0.14	GH2A-4750-AD1
	+0.003	4.358	±0.002	0.129	0.196	0.015	0.125	GH1D-4750-AD1
4.875	+0.002	4.259	±0.003	0.249	0.308	0.025	0.2	GH3A-4875-AD1
	+0.002	4.451	±0.002	0.168	0.212	0.015	0.14	GH2A-4875-AD1
	+0.003	4.483	±0.002	0.129	0.196	0.015	0.125	GH1D-4875-AD1
5	+0.002	4.384	±0.003	0.249	0.308	0.025	0.2	GH3A-5000-AD1
	+0.002	4.576	±0.002	0.168	0.212	0.015	0.14	GH2A-5000-AD1
	+0.003	4.608	±0.002	0.129	0.196	0.015	0.125	GH1D-5000-AD1
5.125	+0.002	4.509	±0.003	0.249	0.308	0.025	0.2	GH3A-5125-AD1
	+0.002	4.701	±0.002	0.168	0.212	0.015	0.14	GH2A-5125-AD1
	+0.003	4.733	±0.002	0.129	0.196	0.015	0.125	GH1D-5125-AD1
5.25	+0.002	4.42	±0.004	0.322	0.415	0.035	0.25	GH4A-5250-AD1
	+0.002	4.634	±0.003	0.249	0.308	0.025	0.2	GH3A-5250-AD1
	+0.003	4.826	±0.002	0.168	0.212	0.015	0.14	GH2A-5250-AD1
	+0.003	4.858	±0.002	0.129	0.196	0.015	0.125	GH1D-5250-AD1
5.375	+0.002	4.545	±0.004	0.322	0.415	0.035	0.25	GH4A-5375-AD1
	+0.002	4.759	±0.003	0.249	0.308	0.025	0.2	GH3A-5375-AD1
	+0.003	4.951	±0.002	0.168	0.212	0.015	0.14	GH2A-5375-AD1
	+0.004	4.983	±0.002	0.129	0.196	0.015	0.125	GH1D-5375-AD1
5.5	+0.002	4.67	±0.004	0.322	0.415	0.035	0.25	GH4A-5500-AD1
	+0.002	4.884	±0.003	0.249	0.308	0.025	0.2	GH3A-5500-AD1
	+0.003	5.076	±0.002	0.168	0.212	0.015	0.14	GH2A-5500-AD1
	+0.004	5.108	±0.002	0.129	0.196	0.015	0.125	GH1D-5500-AD1
5.625	+0.003	4.795	±0.004	0.322	0.415	0.035	0.25	GH4A-5625-AD1
	+0.003	5.009	±0.003	0.249	0.308	0.025	0.2	GH3A-5625-AD1
	+0.004	5.107	±0.004	0.159	0.259	0.015	0.14	GH2D-5625-AD1



# GH profile piston seals, inch sizes

D 5.75 – 16 in.



### Maximum extrusion gap e

Radial depth S	Series	e <sub>max</sub> at 80 °C (175 °F) for pressures		
		2 300 psi	3 600 psi	5 800 psi
in.	–	in.		
<b>0.087</b>	0A	0.014	0.01	0.006
<b>0.13</b>	0D	0.014	0.01	0.006
<b>0.149</b>	1A	0.014	0.01	0.006
<b>0.196</b>	1D	0.015	0.011	0.007
<b>0.212</b>	2A	0.016	0.012	0.008
<b>0.259</b>	2D	0.018	0.013	0.009
<b>0.308</b>	3A	0.02	0.014	0.01
<b>0.415</b>	4A	0.024	0.018	0.014

For additional information → page 34

### Dimensions

### Designation

D	Tolerance	d	Tolerance	L ±0.002	S	R max.	C min.	Designation
in.								–
5.75	+0.003	4.92	±0.004	0.322	0.415	0.035	0.25	<b>GH4A-5750-AD1</b>
	+0.003	5.134	±0.003	0.249	0.308	0.025	0.2	<b>GH3A-5750-AD1</b>
	+0.004	5.232	±0.004	0.159	0.259	0.015	0.14	<b>GH2D-5750-AD1</b>
5.875	+0.003	5.045	±0.004	0.322	0.415	0.035	0.25	<b>GH4A-5875-AD1</b>
	+0.003	5.259	±0.003	0.249	0.308	0.025	0.2	<b>GH3A-5875-AD1</b>
	+0.004	5.357	±0.004	0.159	0.259	0.015	0.14	<b>GH2D-5875-AD1</b>
6	+0.003	5.17	±0.004	0.322	0.415	0.035	0.25	<b>GH4A-6000-AD1</b>
	+0.003	5.384	±0.003	0.249	0.308	0.025	0.2	<b>GH3A-6000-AD1</b>
	+0.004	5.482	±0.004	0.159	0.259	0.015	0.14	<b>GH2D-6000-AD1</b>
6.125	+0.003	5.295	±0.004	0.322	0.415	0.035	0.25	<b>GH4A-6125-AD1</b>
	+0.003	5.509	±0.003	0.249	0.308	0.025	0.2	<b>GH3A-6125-AD1</b>
	+0.004	5.607	±0.004	0.159	0.259	0.015	0.14	<b>GH2D-6125-AD1</b>
6.25	+0.003	5.42	±0.004	0.322	0.415	0.035	0.25	<b>GH4A-6250-AD1</b>
	+0.003	5.634	±0.003	0.249	0.308	0.025	0.2	<b>GH3A-6250-AD1</b>
	+0.004	5.732	±0.004	0.159	0.259	0.015	0.14	<b>GH2D-6250-AD1</b>
6.375	+0.003	5.545	±0.004	0.322	0.415	0.035	0.25	<b>GH4A-6375-AD1</b>
	+0.003	5.759	±0.003	0.249	0.308	0.025	0.2	<b>GH3A-6375-AD1</b>
	+0.004	5.857	±0.004	0.159	0.259	0.015	0.14	<b>GH2D-6375-AD1</b>
6.5	+0.003	5.67	±0.004	0.322	0.415	0.035	0.25	<b>GH4A-6500-AD1</b>
	+0.003	5.884	±0.003	0.249	0.308	0.025	0.2	<b>GH3A-6500-AD1</b>
	+0.004	5.982	±0.004	0.159	0.259	0.015	0.14	<b>GH2D-6500-AD1</b>
6.75	+0.003	5.92	±0.004	0.322	0.415	0.035	0.25	<b>GH4A-6750-AD1</b>
	+0.003	6.134	±0.003	0.249	0.308	0.025	0.2	<b>GH3A-6750-AD1</b>
	+0.004	6.232	±0.004	0.159	0.259	0.015	0.14	<b>GH2D-6750-AD1</b>
7	+0.003	6.17	±0.004	0.322	0.415	0.035	0.25	<b>GH4A-7000-AD1</b>
	+0.003	6.384	±0.003	0.249	0.308	0.025	0.2	<b>GH3A-7000-AD1</b>
	+0.004	6.482	±0.004	0.159	0.259	0.015	0.14	<b>GH2D-7000-AD1</b>
7.25	+0.003	6.42	±0.004	0.322	0.415	0.035	0.25	<b>GH4A-7250-AD1</b>
	+0.003	6.634	±0.003	0.249	0.308	0.025	0.2	<b>GH3A-7250-AD1</b>
	+0.004	6.732	±0.004	0.159	0.259	0.015	0.14	<b>GH2D-7250-AD1</b>

Dimensions								Designation
D	Tolerance	d	Tolerance	L ±0.002	S	R max.	C min.	
in.								-
7.5	+0.003	6.67	±0.004	0.322	0.415	0.035	0.25	<b>GH4A-7500-AD1</b>
	+0.003	6.884	±0.003	0.249	0.308	0.025	0.2	<b>GH3A-7500-AD1</b>
	+0.004	6.982	±0.004	0.159	0.259	0.015	0.14	<b>GH2D-7500-AD1</b>
7.75	+0.003	6.92	±0.004	0.322	0.415	0.035	0.25	<b>GH4A-7750-AD1</b>
	+0.003	7.134	±0.003	0.249	0.308	0.025	0.2	<b>GH3A-7750-AD1</b>
	+0.004	7.232	±0.004	0.159	0.259	0.015	0.14	<b>GH2D-7750-AD1</b>
8	+0.003	7.17	±0.004	0.322	0.415	0.035	0.25	<b>GH4A-8000-AD1</b>
	+0.003	7.384	±0.003	0.249	0.308	0.025	0.2	<b>GH3A-8000-AD1</b>
	+0.004	7.482	±0.004	0.159	0.259	0.015	0.14	<b>GH2D-8000-AD1</b>
8.25	+0.003	7.42	±0.004	0.322	0.415	0.035	0.25	<b>GH4A-8250-AD1</b>
	+0.003	7.634	±0.003	0.249	0.308	0.025	0.2	<b>GH3A-8250-AD1</b>
	+0.004	7.732	±0.004	0.159	0.259	0.015	0.14	<b>GH2D-8250-AD1</b>
8.5	+0.003	7.67	±0.004	0.322	0.415	0.035	0.25	<b>GH4A-8500-AD1</b>
	+0.003	7.884	±0.003	0.249	0.308	0.025	0.2	<b>GH3A-8500-AD1</b>
	+0.004	7.982	±0.004	0.159	0.259	0.015	0.14	<b>GH2D-8500-AD1</b>
8.75	+0.004	7.92	±0.004	0.322	0.415	0.035	0.25	<b>GH4A-8750-AD1</b>
9	+0.003	8.17	±0.004	0.322	0.415	0.035	0.25	<b>GH4A-9000-AD1</b>
	+0.003	8.384	±0.003	0.249	0.308	0.025	0.2	<b>GH3A-9000-AD1</b>
	+0.004	8.482	±0.004	0.159	0.259	0.015	0.14	<b>GH2D-9000-AD1</b>
9.5	+0.003	8.67	±0.004	0.322	0.415	0.035	0.25	<b>GH4A-9500-AD1</b>
	+0.003	8.884	±0.003	0.249	0.308	0.025	0.2	<b>GH3A-9500-AD1</b>
	+0.004	8.982	±0.004	0.159	0.259	0.015	0.14	<b>GH2D-9500-AD1</b>
9.75	+0.004	8.92	±0.004	0.322	0.415	0.035	0.25	<b>GH4A-9750-AD1</b>
10	+0.003	9.17	±0.004	0.322	0.415	0.035	0.25	<b>GH4A-10000-AD1</b>
	+0.003	9.384	±0.003	0.249	0.308	0.025	0.2	<b>GH3A-10000-AD1</b>
	+0.004	9.482	±0.004	0.159	0.259	0.015	0.14	<b>GH2D-10000-AD1</b>
10.5	+0.003	9.67	±0.004	0.322	0.415	0.035	0.25	<b>GH4A-10500-AD1</b>
	+0.003	9.884	±0.003	0.249	0.308	0.025	0.2	<b>GH3A-10500-AD1</b>
	+0.004	9.982	±0.004	0.159	0.259	0.015	0.14	<b>GH2D-10500-AD1</b>
11	+0.003	10.17	±0.004	0.322	0.415	0.035	0.25	<b>GH4A-11000-AD1</b>
	+0.003	10.384	±0.003	0.249	0.308	0.025	0.2	<b>GH3A-11000-AD1</b>
	+0.004	10.482	±0.004	0.159	0.259	0.015	0.14	<b>GH2D-11000-AD1</b>
11.5	+0.003	10.67	±0.004	0.322	0.415	0.035	0.25	<b>GH4A-11500-AD1</b>
	+0.003	10.884	±0.003	0.249	0.308	0.025	0.2	<b>GH3A-11500-AD1</b>
	+0.004	10.982	±0.004	0.159	0.259	0.015	0.14	<b>GH2D-11500-AD1</b>
12	+0.003	11.17	±0.004	0.322	0.415	0.035	0.25	<b>GH4A-12000-AD1</b>
	+0.003	11.384	±0.003	0.249	0.308	0.025	0.2	<b>GH3A-12000-AD1</b>
	+0.004	11.482	±0.004	0.159	0.259	0.015	0.14	<b>GH2D-12000-AD1</b>
12.5	+0.004	11.67	±0.004	0.322	0.415	0.035	0.25	<b>GH4A-12500-AD1</b>
13	+0.004	12.17	±0.004	0.322	0.415	0.035	0.25	<b>GH4A-13000-AD1</b>
13.5	+0.004	12.67	±0.004	0.322	0.415	0.035	0.25	<b>GH4A-13500-AD1</b>
14	+0.004	13.17	±0.004	0.322	0.415	0.035	0.25	<b>GH4A-14000-AD1</b>
14.5	+0.004	13.67	±0.004	0.322	0.415	0.035	0.25	<b>GH4A-14500-AD1</b>
15	+0.004	14.17	±0.004	0.322	0.415	0.035	0.25	<b>GH4A-15000-AD1</b>
15.5	+0.004	14.67	±0.004	0.322	0.415	0.035	0.25	<b>GH4A-15500-AD1</b>
16	+0.003	15.17	±0.004	0.322	0.415	0.035	0.25	<b>GH4A-16000-AD1</b>

Other sizes are available on request