

SGH Filter Housing

Description

The SGH filter housings are designed for ultra-high purity bulk gas applications in the semiconductor industry.

- Clean “sweep tube” design
- Easy cartridge changeout
- Available in three bowl lengths
- Available in 3 or 12 around configurations
- Through bolt closure
- Code 7 (-226 double o-ring with locking tab and finned end) cartridge adaptor

Specifications

Materials

Medium	All-316L stainless steel
Internal surface treatment	Electropolished
Surface finish options	$\leq 0.25 \mu\text{m}$ (10 μin) Ra or $\leq 0.63 \mu\text{m}$ (25 μin) Ra
O-ring seal	Fluorocarbon

Connections

3 around	<ul style="list-style-type: none"> • 2 inch (0.065 inch wall) or 3 inch (0.065 inch wall) buttweld tube • Purge connections: ½ inch gasket seal, male (VCR¹ or compatible) • Vent: ½ inch gasket seal, male (VCR¹ or compatible)
12 around	<ul style="list-style-type: none"> • 3 inch (0.065 inch wall) or 4 inch (0.083 inch wall) buttweld tube • Purge connections: ½ inch gasket seal, male (VCR¹ or compatible) • Vent: ½ inch gasket seal, male (VCR¹ or compatible) • Drain: ½ inch gasket seal, male (VCR¹ or compatible)

Operating Conditions

Maximum allowable working pressure	<ul style="list-style-type: none"> • 3 around: 1.72 MPa at 93°C / 250 psig @ 200°F • 12 around: 1.24 MPa at 38°C / 180 psig @ 100°F 1.17 MPa at 93°C / 170 psig @ 200°F
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Certifications

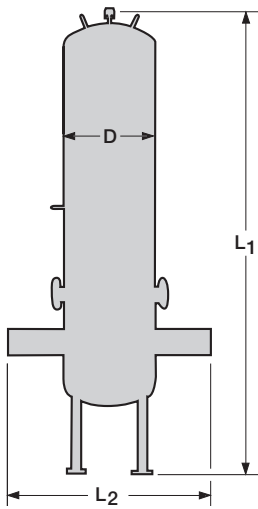
EU Pressure Equipment Directive	Housings have been evaluated for compliance with the European Union's Pressure Equipment Directive 97/23/EC and are CE marked (please refer to CE marked housing options on page 2)
ASME	Housings are designed, manufactured and stamped in accordance with the ASME BPVC Section VIII, Div. 1, including latest addendum

Leak Rating

100% Helium leak tested to 10^{-8} atm-cm³/s

¹ VCR is a trademark of Swagelok Co..

Dimensions



	Number of cartridges	Filter length	Nominal length (L ₁) (mm / in)	Nominal diameter (D) (mm / in)	Face-to-face Dimensions (L ₂) (mm / in)
SG[]H32	3	508 / 20	1,295 / 51	219 / 8.63	508 / 20
SG[]H33	3	762 / 30	1,549 / 61	219 / 8.63	508 / 20
SG[]H34	3	1,016 / 40	1,803 / 71	219 / 8.63	508 / 20
SG[]H122	12	508 / 20	1,549 / 61	356 / 14	768 / 30.25
SG[]H123	12	762 / 30	1,803 / 71	356 / 14	768 / 30.25
SG[]H124	12	1,016 / 40	2,057 / 81	356 / 14	768 / 30.25

Please contact Pall Microelectronics for detailed dimensions on specific housing part numbers.

Part Numbers / Ordering Information

SG 1 H 2 3 G7BW 4 - 5

Table 1

Code	Internal surface finish
Blank	≤ 0.63 μm / 25 μin Ra
L	≤ 0.25 μm / 10 μin Ra

Table 4

Code	Inlet / outlet connections
32	2 inch tube x 0.065 wall
48	3 inch tube x 0.065 wall
64	4 inch tube x 0.083 wall

Table 2

Code	Number of cartridges per housing
3	3 around
12	12 around

Table 5

Code	Pressure vessel code
Blank	ASME code, U-Stamp
CE	CE marked

Table 3

Code	Nominal cartridge length (mm / in)
2	508 / 20
3	762 / 30
4	1,016 / 40



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