

SGH Filter Housing



Description

The SGH filter housing is designed for bulk gas applications requiring ASME code design.

- All wetted surfaces 316L stainless steel
- Electropolished to $\leq 25 \mu\text{in}$ / $0.63 \mu\text{m}$ R_a or $\leq 10 \mu\text{in}$ / $0.25 \mu\text{m}$ R_a
- Clean "sweep tube" design
- Easy cartridge changeout
- Available in three bowl lengths
- Available in 3 or 12 around configurations
- Designed, stamped and manufactured in accordance with ASME code

Specifications

Materials

- Bowl: 316L stainless steel
- Tube sheet: 316L stainless steel
- Tube connections: 316L stainless steel
- O-ring options: Nitrile, EPDM, and FKM

Configurations

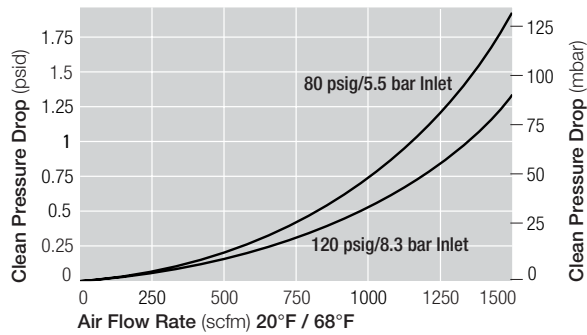
- Inlet/outlet:
- 3 round - 2", 3" Butt Weld tube (0.065" / 1.65 mm wall)
 - 12 round - 3", 4" Butt Weld tube (3"- 0.065" / 1.65 mm wall, 4"- 0.083" / 2.1 mm wall)
 - Vent/drain: $\frac{1}{2}$ " gasket seal, male (VCR¹ or compatible)
 - Closure: Through bolts
 - Cartridge Adaptor: Code 7 (226 double O-ring locking tab/finned end)

Operating Conditions

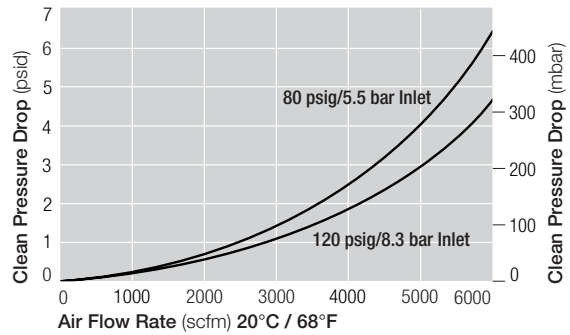
- Maximum Operating Pressure: 185 psig/17.2 bar @ 100°F / 17.2 bar @38°C
- 175psig @ 200°F / 12.1 bar @ 93°C
- Hydrostatic Test Pressure: 234 psig @ 60°F / 25.8 bar @ 16°C

¹ VCR is a trademark of Swagelok Co.

Pressure Drop vs. Gas Flow Rate

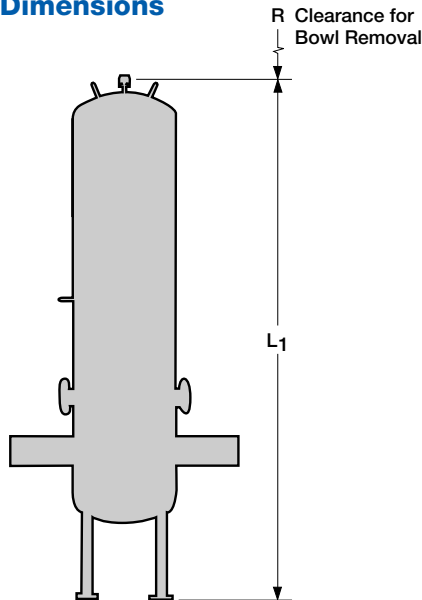


SGH3-G7BW48



SGH12-G7BW64

Dimensions



Part Numbers / Ordering Information

Part Number	Description	Cartridge Length (in / mm)	O-Ring Material	Length (L1) (in / mm)	Clearance for Bowl Removal (R) (in / mm)
SGH33G7BW48EH	3 Round 3" Butt Weld Tube 25 μ m / 0.63 μ m R _a	30 / 762	FKM	61 / 1549.4	37 / 939.8
SGLH32G7BW48EH	3 Round 3" Butt Weld Tube 10 μ m / 0.25 μ m R _a	20 / 508	FKM	51 / 1295.4	27 / 685.8
SGLH33G7BW48EH	3 Round 3" Butt Weld Tube 10 μ m / 0.25 μ m R _a	30 / 762	FKM	61 / 1549.4	37 / 939.8
SGH123G7BW64EH	12 Round 4" Butt Weld Tube 25 μ m / 0.63 μ m R _a	30 / 762	FKM	71 / 1803.4	38 / 965.2
SGLH122G7BW64EH	12 Round 4" Butt Weld Tube 10 μ m / 0.25 μ m R _a	20 / 508	FKM	61 / 1549.4	28 / 711.2

Unit conversion: 1 bar = 100 kilopascals



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