

Gaskleen® V Series Filter Assembly

Description

The Gaskleen V filter assembly is Pall's latest generation gas filter assembly, designed to provide filtration of ultrahigh-purity semiconductor process gases. Our patented o-ringless design eliminates the need for an elastomeric seal. As a result, there are no downstream (wetted surface) welds.

The preconditioned option provides the cleanest PTFE filter assemblies available.

- 316L stainless steel housing
- All-fluoropolymer filter element
- High temperature and pressure resistance
- 100% helium leak tested
- Manufactured and packaged in a cleanroom environment



Specifications

Materials	<ul style="list-style-type: none"> • Medium: PTFE • Support: fluoropolymer • Core and end caps: PFA • O-ring: None • Electropolished 316L stainless steel housing • VAR PLUS housing meets or exceeds typical VIM / VAR specification • Internal Surface Finish <ul style="list-style-type: none"> • $\leq 0.18 \mu\text{m} / 7 \mu\text{in } R_a$ (gasket-seal fittings) • $\leq 0.51 \mu\text{m} / 20 \mu\text{in } R_a$ (compression fittings) • Cr: Fe ($\geq 1.2:1$) chromium enriched internal surface chemistry
Removal Rating¹	<ul style="list-style-type: none"> • $\geq 3 \text{ nm}$
Preconditioned Cleanliness Option	<ul style="list-style-type: none"> • $< 10 \text{ ppb}$ moisture contribution • $< 10 \text{ ppb}$ total hydrocarbon (THC) contribution • $< 10 \text{ ppb}$ oxygen (O_2) contribution
Connections	<ul style="list-style-type: none"> • 1/4", 1/2" or 3/4" Gasket seal (VCR² or compatible) • 1/4", 3/8" or 1/2" compression fittings

Operating Conditions

- Maximum operating pressure: 5.2 MPa at 140 °C / 750 psig at 284 °F
- Maximum allowable forward differential pressure: 0.7 MPa at 20 °C / 100 psid at 68 °F
- Maximum allowable reverse differential pressure: 0.34 MPa at 20 °C / 50 psid at 68 °F
- EU Pressure Equipment Directive: Assemblies have been evaluated for compliance with the European Union's Pressure Equipment Directive 97/23/EC and are CE marked

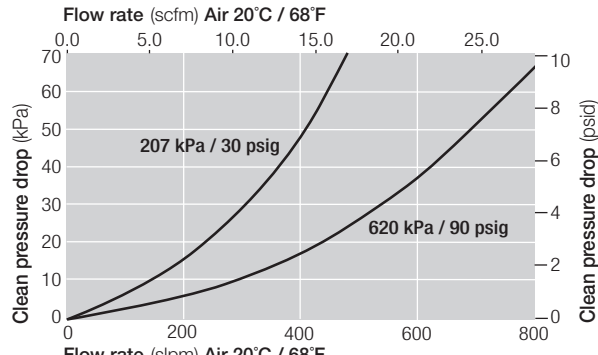
Leak Rating

- 100% helium leak tested to $10^{-9} \text{ atm}\cdot\text{cm}^3/\text{s}$
- Design validated to $10^{-11} \text{ atm}\cdot\text{cm}^3/\text{s}$

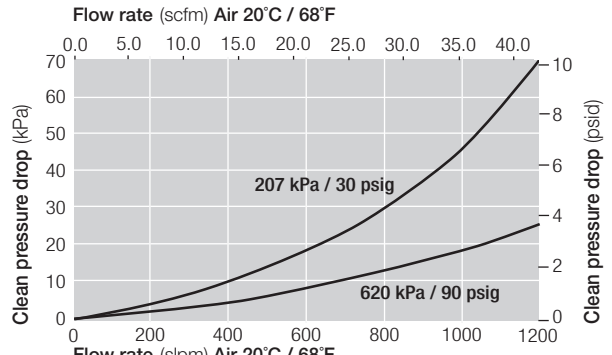
¹ Particle rating is based on laboratory testing with NaCl aerosol.

² VCR is a trademark of Swagelok Company.

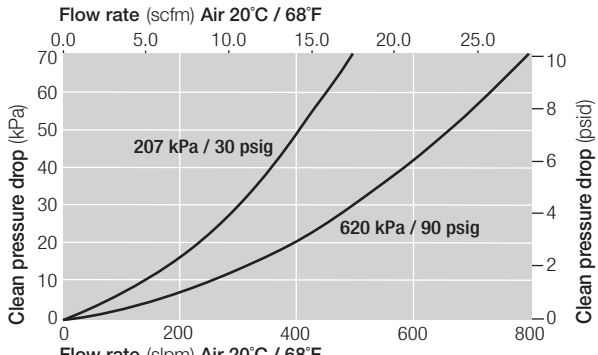
Pressure Drop vs. Gas Flow Rate



VMM4

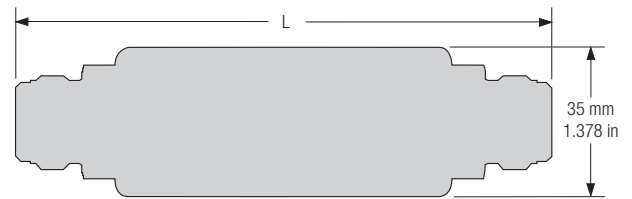


VMM8 / VMM12



SM6

Dimensions



Unit conversion: 100 kilopascals = 1 bar

Part Numbers / Ordering Information

Part Number	Description	Nominal Length (L) (mm / inch)	Preconditioned
SGLFPF6501VMM4	1/4 " Gasket seal, (VCR or compatible) male / male	127 / 5.0	No
SGLFPF6502VMM4	1/4 " Gasket seal, (VCR or compatible) male / male	127 / 5.0	Yes
SGLFPF6501VMM8	1/2 " Gasket seal, (VCR or compatible) male / male	127 / 5.0	No
SGLFPF6502VMM8	1/2 " Gasket seal, (VCR or compatible) male / male	127 / 5.0	Yes
SGLFPF6501VMM12	3/4 " Gasket seal, (VCR or compatible) male / male	140 / 5.5	No
GLFPF6501VMF4	1/4 " Gasket seal, (VCR or compatible) male / female	141 / 5.6	No
SGLFPF6501SM4	1/4 " Compression seal, (Swagelok ³ or compatible) male / male	113 / 4.4	No
GLFPF6501SM4	1/4 " Compression seal, (Swagelok or compatible) male / male	141 / 5.6	No
SGLFPF6501SM6	3/8 " Compression seal, (Swagelok or compatible) male / male	118 / 4.6	No
GLFPF6501SM6	3/8 " Compression seal, (Swagelok or compatible) male / male	148 / 5.8	No
SGLFPF6501SM8	1/2 " Compression seal, (Swagelok or compatible) male / male	119 / 4.7	No

³Swagelok is a trademark of Swagelok Co.



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Products in this document may be covered by one or more of the following patent numbers: US5543047; US5690765; US6113784; US7083564; US7318800; EP0982061; EP0667800; EP1380331.

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