

Gaskleen® V Series Filter Assembly (1.5 nm)



Data Sheet MEGKVEng

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.

Features & Benefits

- 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

Filter Medium	PTFE
Support	Fluoropolymer
Core and End Caps	PFA
Internal Surface Finish	$\leq 0.18 \mu\text{m}$ / $7 \mu\text{in } R_a$ $\leq 0.51 \mu\text{m}$ / $20 \mu\text{in } R_a$
Internal Housing Surface Chemistry	Cr:Fe ($\geq 1.2:1$) chromium-enriched
Housing	Electropolished 316L stainless steel
Removal Rating ¹	$\geq 1.5 \text{ nm}$ $< 10 \text{ ppb}$ moisture contribution
Preconditioned Cleanliness	$< 10 \text{ ppb}$ total hydrocarbon (THC) contribution $< 10 \text{ ppb}$ oxygen (O_2) contribution
Connections	$\frac{1}{4}$ ", $\frac{1}{2}$ " or $\frac{3}{4}$ " Gasket Seal (VCR ² or compatible) $\frac{1}{4}$ " $\frac{3}{8}$ " or $\frac{1}{2}$ " compression fitting

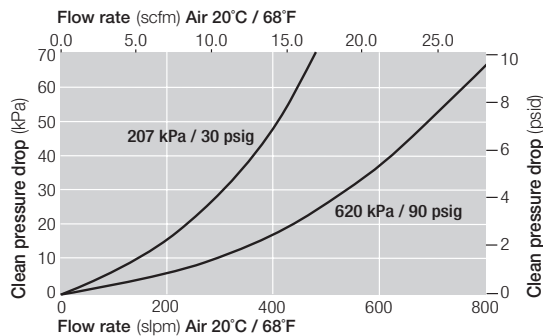
Leak Rating	100% helium leak tested to $10^{-9} \text{ atm cm}^3/\text{sec}$ Design validated to $10^{-11} \text{ atm cm}^3/\text{sec}$
Design Pressure (Maximum Operating Pressure)	5.2 MPa @ 140 °C / 750 psig @ 284 °F
Maximum Allowable Differential Pressure	0.7 MPa @ 20 °C / 100 psig @ 68 °F
Maximum Allowable Reverse Differential Pressure	0.34 MPa @ 20 °C / 50 psig @ 68 °F
EU Pressure Equipment Directive	Assemblies have been evaluated and designed using SEP per the European Union's Pressure Equipment Directive 2014 / 68 / EU and are not CE marked.

¹ Particle rating based on laboratory testing with NaCl aerosol.

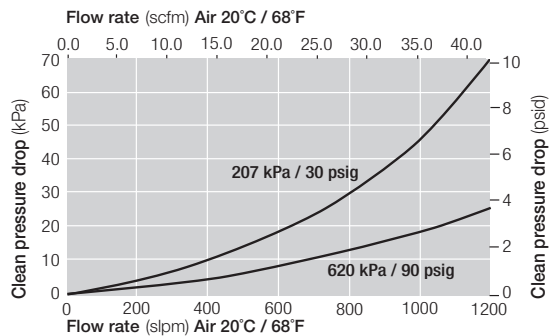
² VCR is a trademark of Swagelok Co.

Pressure Drop vs. Gas Flow Rate

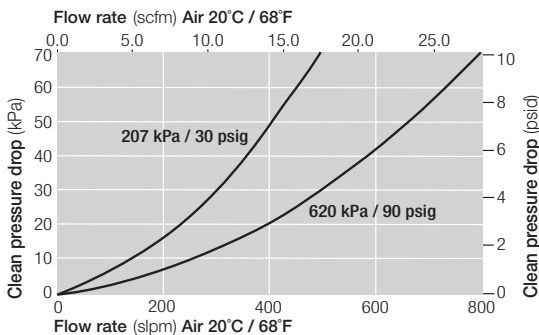
VMM4



VMM8 / VMM12



SM6



Dimensions



Unit conversion: 100 kilopascals = 1 bar

Part Numbers / Ordering Information

Part Number ³	Description	Nominal Length (L) (mm / inch)	Preconditioned
SGLFPF6501VMM4	¼" Gasket seal, (VCR or compatible) male / male	127 / 5.0	No
SGLFPF6502VMM4	¼" Gasket seal, (VCR or compatible) male / male	127 / 5.0	Yes
SGLFPF6501VMM8	½" Gasket seal, (VCR or compatible) male / male	127 / 5.0	No
SGLFPF6502VMM8	½" Gasket seal, (VCR or compatible) male / male	127 / 5.0	Yes
SGLFPF6501VMM12	¾" Gasket seal, (VCR or compatible) male / male	140 / 5.5	No
GLFPF6501VMF4	¼" Gasket seal, (VCR or compatible) male / female	141 / 5.6	No
SGLFPF6501SM4	¼" Compression seal, (Swagelok ⁴ or compatible) male / male	113 / 4.4	No
GLFPF6501SM4	¼" Compression seal, (Swagelok or compatible) male / male	141 / 5.6	No
SGLFPF6501SM6	⅜" Compression seal, (Swagelok or compatible) male / male	118 / 4.6	No
GLFPF6501SM6	⅜" Compression seal, (Swagelok or compatible) male / male	148 / 5.8	No
SGLFPF6501SM8	½" Compression seal, (Swagelok or compatible) male / male	119 / 4.7	No

³ To order in box quantities of 24, please add "SB24" at the end of the part number. Example: SGLFPF6502VMM4SB24

⁴ Swagelok is a trademark of Swagelok Co.



Microelectronics

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IF APPLICABLE Please contact Pall Corporation to verify that the product conforms to your national legislation and/or regional regulatory requirements for water and food contact use.

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