Pall Corporation

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 of Construction

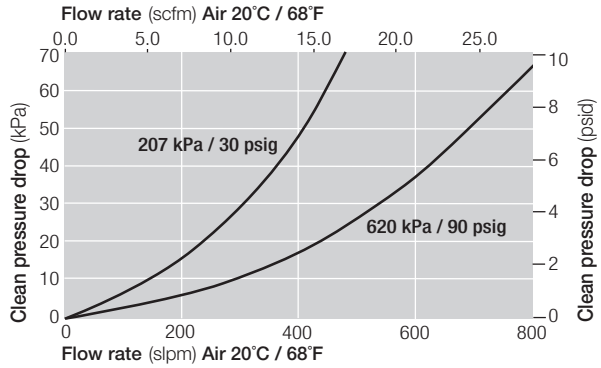
Filter Medium	PTFE
Support	Fluoropolymer
Core and End caps	PFA
Internal Surface Finish	≤ 0.18 µm / 7 µin R_a ≤ 0.51 µm / 20 µin R_a
Housing	Electropolished 316L stainless steel Housing material meets or exceeds VIM/VAR specifications. EU pressure equipment directive: Assemblies have been evaluated and designed using SEP per the European Union's Pressure Equipment Directive 2014/68/EU and are not CE marked.
Internal Housing Surface Chemistry	Cr:Fe (≥1.2:1) chromium-enriched

Removal Rating[1]	≥ 3 nm
Preconditioned Cleanliness Option	< 10 ppb moisture contribution < 10 ppb total hydrocarbon (THC) contribution < 10 ppb oxygen (O_2) contribution
Connections	1/4 in, 1/2 in or 3/4 in Gasket Seal (VCR[2] or compatible) 1/4 in 3/8 in or 1/2 compression fitting
Leak Rating	100% helium leak tested to 10^{-9} atm cm^3/sec Design validated to 10^{-11} atm cm^3/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 psid @ 68 °F
Maximum Allowable Reverse Differential Pressure	0.34 MPa @ 20 °C / 50 psid @ 68 °F

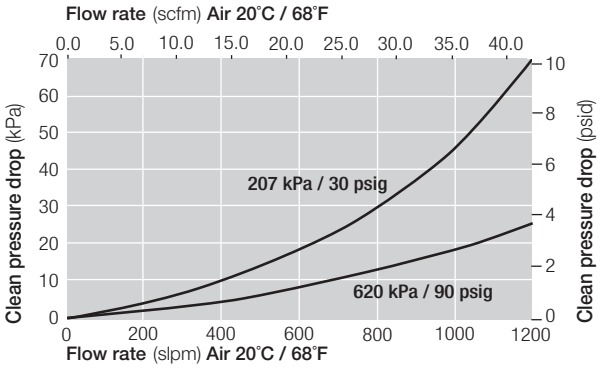
[1] Particle rating based on laboratory testing with NaCl aerosol.

[2] VCR is a trademark of Swagelok Co.

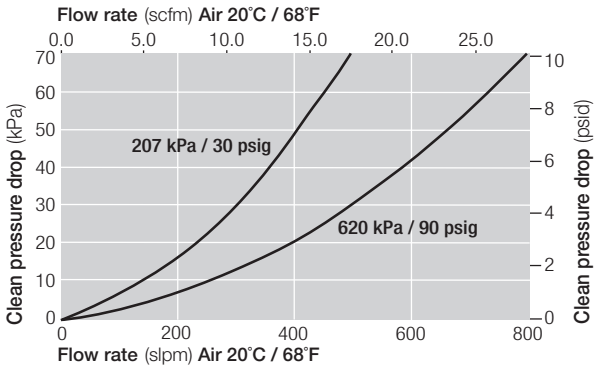
Pressure Drop vs. Gas Flow Rate



VMM4

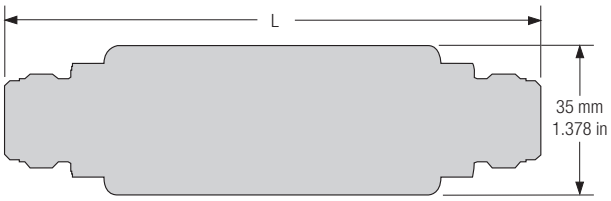


VMM8 / VMM12



SM6

Dimensions



Unit conversion: 100 kilopascals = 1 bar

Part Numbers / Ordering Information

Part Number[3]	Description	Nominal Length (L) (mm / inch)	Preconditioned
SGLFPF6501VMM4	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[4] 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

[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.

Pall Corporation

Microelectronics

25 Harbor Park Drive
Port Washington, NY 11050
+1 800 360 7255 toll free US
+1 516 484 3600 telephone
+1 516 801 9700 fax

Nihon Pall Ltd.
6-5-1, Nishishinjuku,
Shinjuku-ku
Tokyo 163-1325 Japan
+81 3 6901 5700 telephone
+81 3 5322 2109 fax

Filtration. Separation. Solution.SM

Visit us on the Web at microelectronics.pall.com

Pall Corporation has offices and plants throughout the world. For Pall representatives in your area, please go to www.pall.com/corporate_contact.asp.

Because of technological developments related to the products, systems, and/or services described herein, the data and procedures are subject to change without notice. Please consult your Pall representative or visit www.pall.com to verify that this information remains valid.
Products in this document may be covered by one or more of the following patent numbers: US5543047; US5690765; US6113784; US7083564; US7318800; EP0982061; EP0667800; EP1380331.

MEGKVENf September 2019