Mini Gaskleen® High-Flow Filter Assembly (1.5 nm)

Data Sheet MEMGHFENa

Description

The Mini Gaskleen Hi-Flow filter assembly is designed for ultra-high-purity point-of-use gas filtration applications.

The unique filter design allows significantly higher flow capacity than previously offered in this envelope.

Features & Benefits

- 316L stainless steel electropolished housing
- All-fluoropolymer element
- Wide range of chemical compatibility
- High temperature and pressure capabilities
- Compact size for ease of installation
- 100% integrity tested
- Cleanroom manufactured and packaged
- 100% helium leak tested

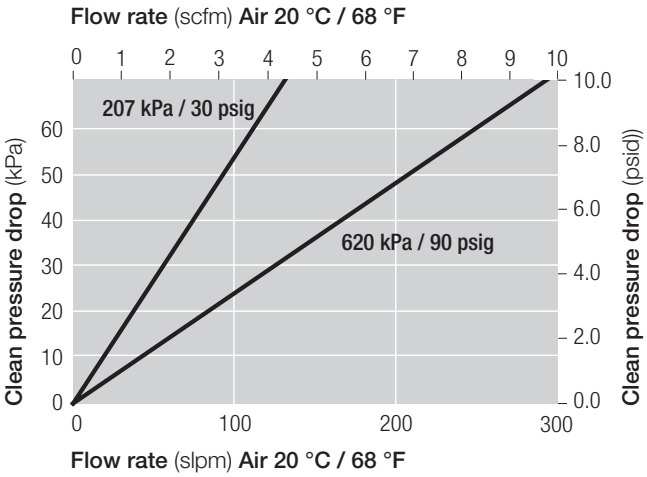
Specifications

Filter Medium	PTFE
Core and End Caps	PFA
O-ring	FEP encapsulated fluorocarbon
Internal Surface Finish	≤ 0.13 µm / 5 µin R_a (gasket and butt weld fittings)
	≤ 0.50 µm / 20 µin R_a (compression fittings)
Housing	Electropolished 316L stainless steel
Internal Housing Surface Chemistry	Cr:Fe (1:1) chromium-enriched
Removal Rating	≥ 1.5 nm
Connections	¼" gasket seal (VCR[1] or compatible)
	¼" butt weld (0.035" wall)
	¼" compression seal (Swagelok1 or compatible)

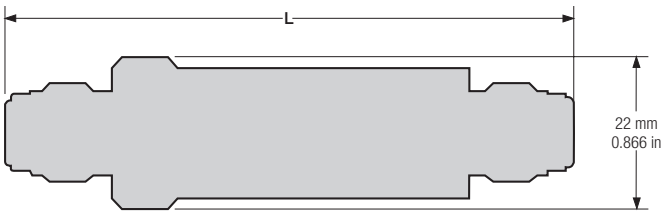
Leak Rating	100% helium leak tested to 10^{-9} atm cm^3/sec Design validated to 10^{-11} atm cm^3/sec
Maximum Operating Pressure	20.7 MPa @ 121 °C / 3000 psig @ 250 °F
Maximum Forward Differential Pressure	0.69 MPa @ 40 °C / 100 psid @ 104 °F
Maximum Reverse Differential Pressure	0.34 MPa @ 21 °C / 50 psid @ 70 °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] VCR and Swagelok are registered trademarks of Swagelok Company.

Pressure Drop vs. Gas Flow Rate



Dimensions



Preconditioned Options (3102 Series)

- < 10 ppb moisture contribution (qualified per SEMASPEC test method #90120397B-STD)
- < 10 ppb THC contribution (qualified per SEMASPEC test method #90120396B-STD)
- < 10 ppb O_2 contribution (qualified per SEMASPEC test method #90120398B-STD)
- No particle contribution above background ≤ 1 particle / (m^3 or ft^3)

Part Numbers / Ordering Information

Part Number	Description	Nominal Length (L) (mm / in)	Preconditioned
GLFPF3101VMM4	¼" Gasket seal (VCR or compatible) male / male	84 / 3.31	No
GLFPF3101BW4	¼" Butt weld, 0.89 mm / 0.035" wall	90 / 3.54	No
GLFPF3101SM4	¼" Compression seal, male inlet / outlet (Swagelok compatible)	73 / 2.88	No
GLFPF3101VFM4	¼" Gasket seal (VCR or compatible) female inlet / male outlet	88 / 3.47	No
GLFPF3101VMF4	¼" Gasket seal Outlet (VCR or compatible) male inlet / female outlet	100 / 3.94	No
GLFPF3102VMM4	¼" Gasket seal (VCR or compatible) male / male	84 / 3.31	Yes
GLFPF3111VMM4	¼" Gasket seal (VCR or compatible) male / male	127 / 5.00	No

Unit conversion: 1 bar = 100 kilopascals

PALL CORPORATION

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

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

Pall Corporation has offices and plants throughout the world. To locate the Pall office or distributor nearest you, visit www.pall.com/contact.

The information provided in this literature was reviewed for accuracy at the time of publication. Product data may be subject to change without notice. For current information consult your local Pall distributor or contact Pall directly.

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.

danaher