PFA Gaskleen® 6101 Series Filter Assembly



Description

The PFA-Gaskleen® 6101 Series Filter Assembly is specifically designed for ≥ 3 nanometer (0.003 µm) filtration of oxygen and specialty gases.

- 316L stainless steel electropolished housing
- All fluoropolymer element
- Wide range of chemical compatibility
- High temperature and pressure capabilities
- Available in both standard and shortened version
- Wide variety of fitting options available
- Compact size (2.2" / 56 mm dia.) for ease of installation
- 100% integrity tested
- Cleanroom manufactured and packaged
- 100% helium leak tested

Specifications

Materials

- Electropolished 316L stainless steel housing
- ≤ 25 µin / 0.64 µm R_a internal surface finish
- All fluoropolymer element 100% integrity tested
  Media: PTFE
  Core and end caps: PFA 440HP
  O-ring: Teflon encapsulated Viton[1]

Removal Rating

- ≥ 0.003 µm

Filter Area

- 232 cm^2/0.25 ft^2

Connections

- ¼" Gasket Seal, male (VCR[2] or compatible)
- ¼" Compression Seal (Swagelok[2] or compatible)
- ⅜" Gasket Seal, male (VCR or compatible)
- ⅜" Compression Seal (Swagelok or compatible)

Operating Conditions

- Maximum Operating Pressure:
  750 psig @ 250°F/52 bar @ 121°C
- Maximum Forward Differential Pressure:
  100 psid @ 70°F/7 bar @ 21°C
- Maximum Reverse Differential Pressure:
  50 psid @ 70°F/3.4 bar @ 21°C

Leak Rating

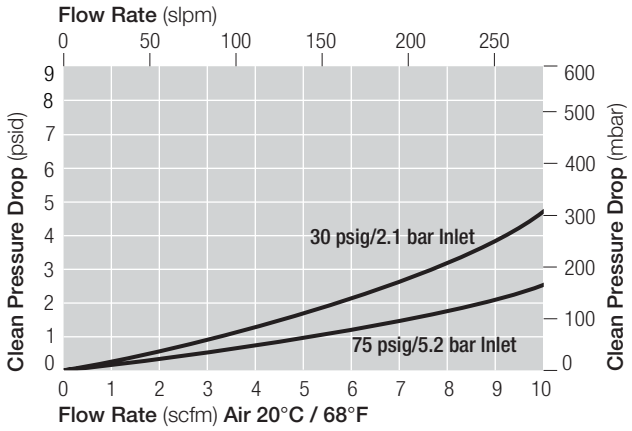
- 100% helium leak tested to 10^{-7} atm•cm^3/s
- Design validated to 10^{-9} atm•cm^3/s

Packaging

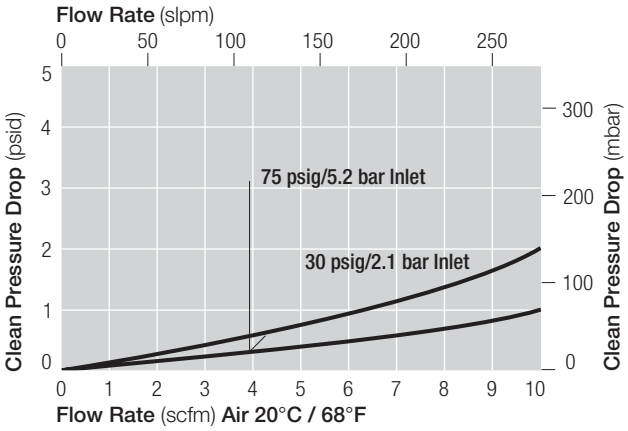
- Double bagged
- Outer bag: aluminized mylar
- Inner bag: polyethylene
- N_2 purged

[1] Teflon and Viton are trademarks of DuPont Dow Elastomers
[2] VCR and Swagelok are trademarks of Swagelok Co.

Pressure Drop vs. Gas Flow Rate

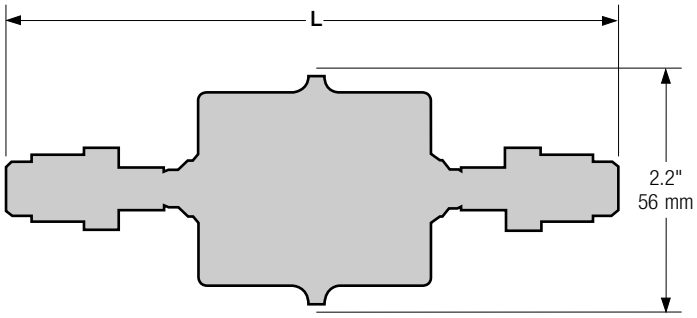


Connection Size: 1/4"



Connection Size: 3/8"

Dimensions



Part Numbers / Ordering Information

Part Number	Description	Length (L) (in / mm)
GLFPF6101VM4	PFA Gaskleen, ¼" Gasket Seal (VCR or Compatible) Male/Male	5.56 / 141
GLFPF6101SM4S	PFA Gaskleen, ¼" Compression Seal (Swagelok or Compatible) Male/Male	5.56 / 141
GLFPF6101SM6S	PFA Gaskleen, ⅜" Compression Seal (Swagelok or Compatible) Male/Male	5.81 / 148
GLFPF6101VM6/8	PFA Gaskleen, ⅜" Gasket Seal (VCR or Compatible) Male/Male	5.81 / 148
SGLFPF6101VM4	Short PFA Gaskleen, ¼" Gasket Seal (VCR or Compatible) Male/Male	4.94 / 125
SGLFPF6101VM6/8M	Short PFA Gaskleen, ⅜" Gasket Seal (VCR or Compatible) Male/Male	5.00 / 127
SGLFPF6101SM4S	Short PFA Gaskleen, ¼" Compression Seal (Swagelok or Compatible) Male/Male	4.19 / 106

Unit conversion: 1 bar = 100 kilopascals

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