



Maxi Gaskleen® 8202/9202 Series Filter Assembly



Description

The Maxi Gaskleen filter assembly is specifically designed for ≥ 3 nanometer ($0.003 \mu\text{m}$) filtration of high flow applications. The 8202 Series assembly is designed for flow rates up to 30 scfm / 850 slpm; the 9202 Series assembly handles flow rates up to 50 scfm / 1416 slpm.

- 316L stainless steel electropolished housing
- Emflon® or Emflon PF element available
- High temperature and pressure capabilities
- Two fitting options available
- Compact size (63.5 mm / 2.5 in dia.) for ease of installation
- 100% integrity tested
- Cleanroom manufactured and packaged
- 100% helium leak tested

Specifications

Materials

- Electropolished 316L stainless steel housing
- $\leq 0.25 \mu\text{m}$ / $10 \mu\text{in}$ R_a internal surface finish

Element Options

- Emflon filter medium: PTFE
Core, cage, and end caps: Polypropylene
O-ring: Teflon¹ encapsulated Viton¹
- Emflon PF filter medium: PTFE
Core, cage, and end caps: PFA 440HP
O-ring: Teflon encapsulated Viton

Removal Rating

- $\geq 3 \text{ nm}$

Filter Area

- 0.15 m^2 / 1.6 ft^2 per GLF8202 assembly
- 0.09 m^2 / 1.0 ft^2 per GLF9202 assembly
- 0.30 m^2 / 3.2 ft^2 per GLF9202 assembly
- 0.20 m^2 / 2.1 ft^2 per GLF9202 assembly

Connections

- $\frac{1}{2}$ in Gasket seal, male (VCR² or compatible)
- $\frac{1}{2}$ in Butt weld (1.24 mm / 0.049 in wall)
- $\frac{3}{4}$ in Butt weld (1.65 mm / 0.065 in wall)

Operating Conditions

- Maximum operating pressure: 250 psig / 17 bar
- Maximum operating temperature: Emflon element 176°F / 80°C; Emflon PF element 250°F / 121°C
- Maximum forward differential pressure: 0.55 MPa @ 50°C / 80 psid @ 120°F; 0.35 MPa @ 80°C / 50 psid @ 176°F
- Maximum reverse differential pressure: 0.34 MPa @ 21°C / 50 psid @ 70°F

Leak Rating

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

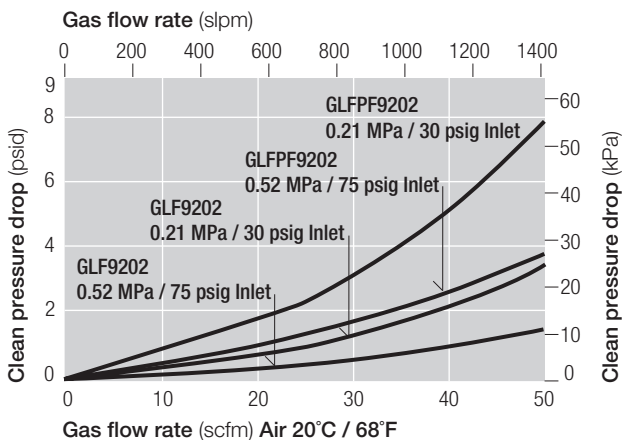
Packaging

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

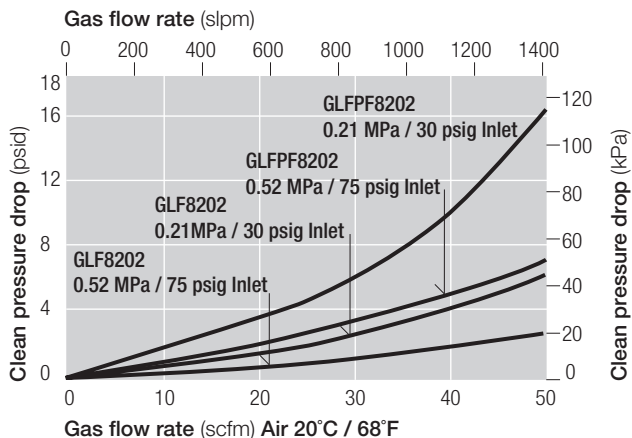
¹ Teflon and Viton are trademarks of E. I. du Pont de Nemours and Company.

² VCR is a trademark of Swagelok Company.

Pressure Drop vs. Gas Flow Rate

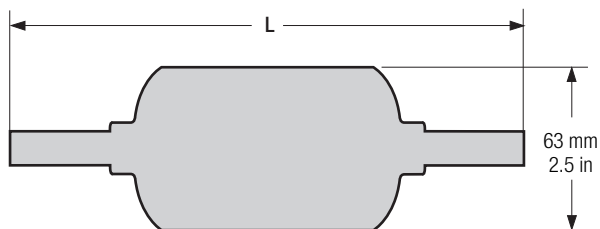


Maxi Gaskleen 9202 Series Assembly

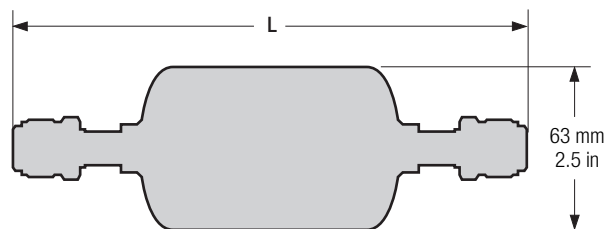


Maxi Gaskleen 8202 Series Assembly

Dimensions



Code BW8 & BW12



Code VMM8

Part Numbers / Ordering Information

| Part Number | Description | Length (L) (mm / in) |
|---------------|---|----------------------|
| GLFPF8202VMM8 | Emflon PF element, 1/2 in gasket seal (VCR or compatible) male / male | 197 / 7.75 |
| GLFPF8202BW8 | Emflon PF element, 1/2 in butt weld, 1.24 mm / 0.049 in wall | 197 / 7.75 |
| GLF8202VMM8 | Emflon element, 1/2 in gasket seal (VCR or compatible) male / male | 197 / 7.75 |
| GLF8202BW8 | Emflon element 1/2 in butt weld, 1.24 mm / 0.049 in wall | 197 / 7.75 |
| GLFPF9202BW8 | Emflon PF element, 1/2 in butt weld, 1.24 mm / 0.049 in wall | 295 / 11.61 |
| GLFPF9202BW12 | Emflon PF element, 3/4 in butt weld, 1.65 mm / 0.065 in wall | 295 / 11.61 |
| GLFPF9202VMM8 | Emflon PF element, 1/2 in gasket seal (VCR or compatible) male / male | 258 / 10.14 |
| GLF9202VMM8 | Emflon element, 1/2 in gasket seal (VCR or compatible) male / male | 258 / 10.14 |

Unit conversion: 1 bar = 100 kilopascals



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