

Maxi Gaskleen® 8202/9202 Series Filter Assembly (1.5 nm)



Data Sheet MEMG89ENa

Description

The Maxi Gaskleen filter assembly is specifically designed for ≥ 1.5 nanometer ($0.0015 \mu\text{m}$) 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.

Features & Benefits

- 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

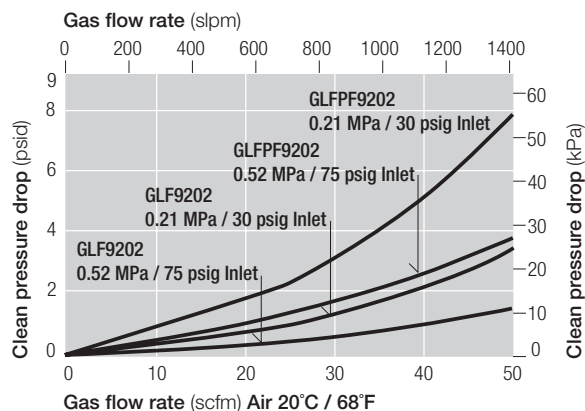
Element Options	Emflon filter medium: PTFE Core, cage, and end caps: Polypropylene O-ring: FEP encapsulated fluoroelastomer
	Emflon PF filter medium: PTFE Core, cage, and end caps: PFA 440HP O-ring: FEP encapsulated fluoroelastomer
Internal Surface Finish	$\leq 0.25 \mu\text{in} / 10 \mu\text{in R}_a$
Housing	Electropolished 316L stainless steel Housing material meets or exceeds VIM / VAR specifications
Removal Rating	$\geq 1.5 \text{ nm}$
Filter Area	$0.15 \text{ m}^2 / 1.6 \text{ ft}^2$ per GLF8202 assembly
	$0.09 \text{ m}^2 / 1.0 \text{ ft}^2$ per GLFPF8202 assembly
	$0.30 \text{ m}^2 / 3.2 \text{ ft}^2$ per GLF9202 assembly
	$0.20 \text{ m}^2 / 2.1 \text{ ft}^2$ per GLFPF9202 assembly
Connections	$\frac{1}{2}$ " Gasket seal, male (VCR or compatible)
	$\frac{1}{2}$ " Butt weld (1.24 mm / 0.049 in wall)
	$\frac{3}{4}$ " Butt weld (1.65 mm / 0.065 in wall)

Leak Rating	100% helium leak tested to $10^{-9} \text{ atm}\cdot\text{cm}^3/\text{s}$
	Design validated to $10^{-11} \text{ atm}\cdot\text{cm}^3/\text{s}$
Maximum Operating Pressure	250 psig / 17 bar
Maximum Operating Temperature	Emflon element $176^\circ\text{F} / 80^\circ\text{C}$; Emflon PF element $250^\circ\text{F} / 121^\circ\text{C}$
Maximum Forward Differential Pressure	$0.55 \text{ MPa} @ 50^\circ\text{C} / 80 \text{ psid} @ 120^\circ\text{F}$ $0.35 \text{ MPa} @ 80^\circ\text{C} / 50 \text{ psid} @ 176^\circ\text{F}$
Maximum Reverse Differential Pressure	$0.34 \text{ MPa} @ 21^\circ\text{C} / 50 \text{ psid} @ 70^\circ\text{F}$
Packaging	Double bagged
	Outer bag: aluminized mylar
	Inner bag: polyethylene
EU Pressure Equipment Directive	N_2 purged
	Assemblies have been evaluated and designed using SEP per the European Union's Pressure Equipment Directive 2014 / 68 / EU and are not CE marked.

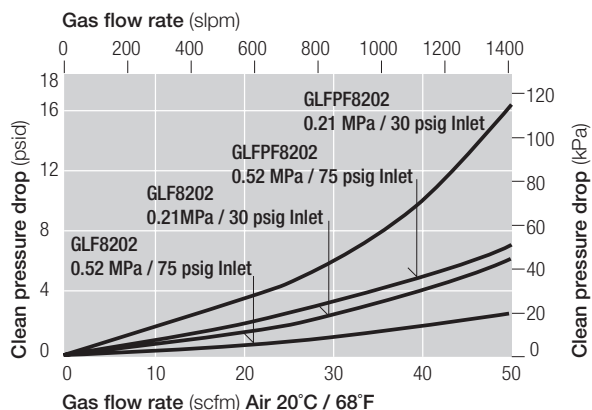
¹ VCR is a trademarks of Swagelok Co.

Pressure Drop vs. Gas Flow Rate

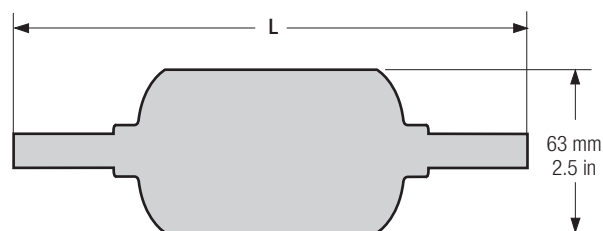
Maxi Gaskleen 9202 Series Assembly



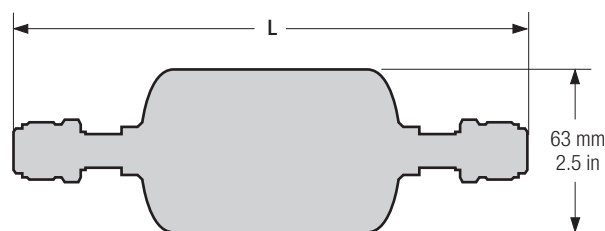
Maxi Gaskleen 8202 Series Assembly



Dimensions



Code BW8 & BW12



Code VMM8

Part Numbers / Ordering Information

Part Number	Description	Length (L) (in / mm)
GLF8202VMM8	Emflon PF element : ½" gasket seal (VCR or compatible) male / male	197 / 7.75
GLF8202BW8	Emflon PF element : ½" butt weld, 1.24 mm / 0.049 in wall	197 / 7.75
GLF8202VMM8	Emflon element : ½" gasket seal (VCR or compatible) male / male	197 / 7.75
GLF8202BW8	Emflon element : ½" butt weld, 1.24 mm / 0.049 in wall	197 / 7.75
GLF9202BW8	Emflon PF element : ½" butt weld, 1.24 mm / 0.049 in wall	295 / 11.61
GLF9202BW12	Emflon PF element : ¾" butt weld, 1.65 mm / 0.065 in wall	295 / 11.61
GLF9202VMM8	Emflon PF element : ½" gasket seal (VCR or compatible) male / male	258 / 10.14
GLF9202VMM8	Emflon element : ½" gasket seal (VCR or compatible) male / male	258 / 10.14

Unit conversion: 1 bar = 100 kilopascals



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