

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



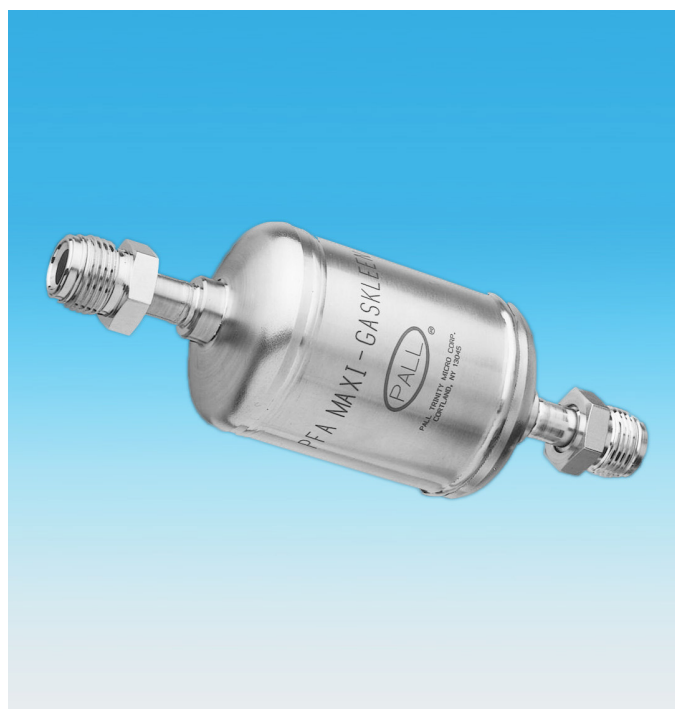
Data Sheet MEMG89ENa

## Description

The Maxi Gaskleen filter assembly is specifically designed for  $\geq 1.5$  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

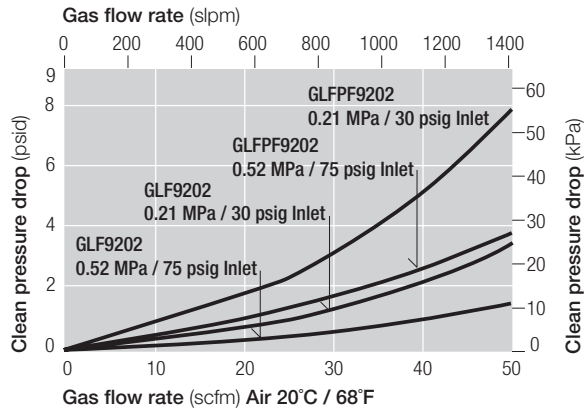
<b>Element Options</b>	Emflon filter medium: PTFE Core, cage, and end caps: Polypropylene O-ring: FEP encapsulated fluoroelastomer
	Emflon PF filter medium: PTFE Core, cage, and end caps: PFA 440HP O-ring: FEP encapsulated fluoroelastomer
<b>Internal Surface Finish</b>	$\leq 0.25 \mu\text{in} / 10 \mu\text{in } R_a$
<b>Housing</b>	Electropolished 316L stainless steel Housing material meets or exceeds VIM / VAR specifications
<b>Removal Rating</b>	$\geq 1.5 \text{ nm}$
<b>Filter Area</b>	$0.15 \text{ m}^2 / 1.6 \text{ ft}^2$ 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
<b>Connections</b>	$\frac{1}{2}$ " 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)

<b>Leak Rating</b>	100% helium leak tested to $10^{-9} \text{ atm}\cdot\text{cm}^3/\text{s}$
	Design validated to $10^{-11} \text{ atm}\cdot\text{cm}^3/\text{s}$
<b>Maximum Operating Pressure</b>	250 psig / 17 bar
<b>Maximum Operating Temperature</b>	Emflon element 176 °F / 80 °C; Emflon PF element 250 °F / 121 °C
<b>Maximum Forward Differential Pressure</b>	0.55 MPa @ 50 °C / 80 psid @ 120 °F 0.35 MPa @ 80 °C / 50 psid @ 176 °F
<b>Maximum Reverse Differential Pressure</b>	0.34 MPa @ 21 °C / 50 psid @ 70 °F
<b>Packaging</b>	Double bagged
	Outer bag: aluminized mylar
	Inner bag: polyethylene
	N <sub>2</sub> purged
<b>EU Pressure Equipment Directive</b>	Assemblies have been evaluated and designed using SEP per the European Union's Pressure Equipment Directive 2014 / 68 / EU and are not CE marked.

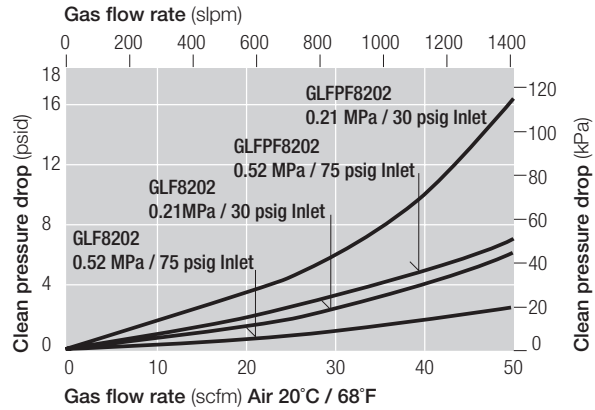
<sup>1</sup> VCR is a trademarks of Swagelok Co.

## Pressure Drop vs. Gas Flow Rate

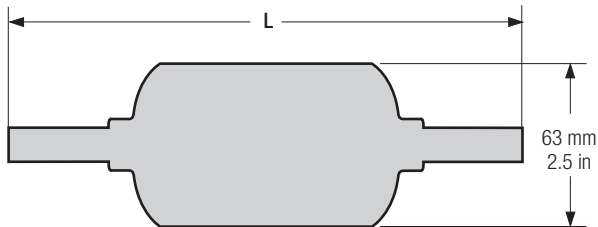
Maxi Gaskleen 9202 Series Assembly



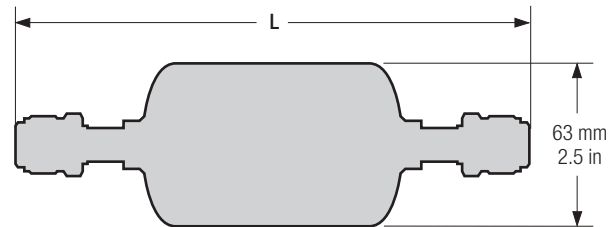
Maxi Gaskleen 8202 Series Assembly



## Dimensions



Code BW8 & BW12



Code VMM8

## Part Numbers / Ordering Information

Part Number	Description	Length (L) (in / mm)
GLFPPF8202VMM8	Emflon PF element : ½" gasket seal (VCR or compatible) male / male	197 / 7.75
GLFPPF8202BW8	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
GLFPPF9202BW8	Emflon PF element : ½" butt weld, 1.24 mm / 0.049 in wall	295 / 11.61
GLFPPF9202BW12	Emflon PF element : ¾" butt weld, 1.65 mm / 0.065 in wall	295 / 11.61
GLFPPF9202VMM8	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