

PSP Sealed-In-Line Filter



Data Sheet MEPSPSILENb

Description

The PSP Sealed-In-Line Series filter assemblies are specifically designed for filtration of gas processes with high flow rates.

Features & Benefits

- All stainless steel construction
- High particle retention
- Very high flow rates with low differential pressure
- High temperature and pressure capabilities
- Excellent gas displacement and desorption characteristics
- 100% integrity tested
- Clean room manufactured and packaged



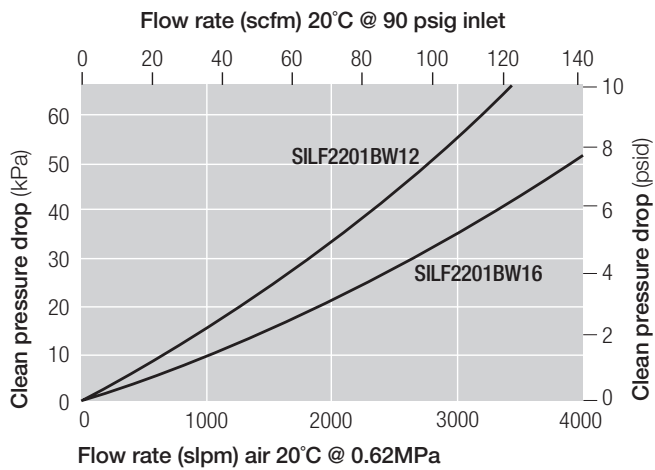
Specifications

Materials	Medium: 316L stainless steel
	Housing: electropolished 316L SS
	< 0.25 μm / 10 μin Ra internal surface finish
	1:1 (Cr/Fe) chromium enriched internal surface chemistry
Removal Rating¹	Housing meets or exceeds VIM / VAR specifications
	10 ⁹ reduction for particles $\geq 3 \text{ nm}$
Connections	1/2" up to 4" buttweld (other fittings available upon request)
Configurations	Nominal housing diameters: 64 mm (2.5 in), 102 mm (4.0 in), 168 (6.6 in) and 219 mm (8.6 in)
Preconditioning	Factory preconditioned with purified N ₂

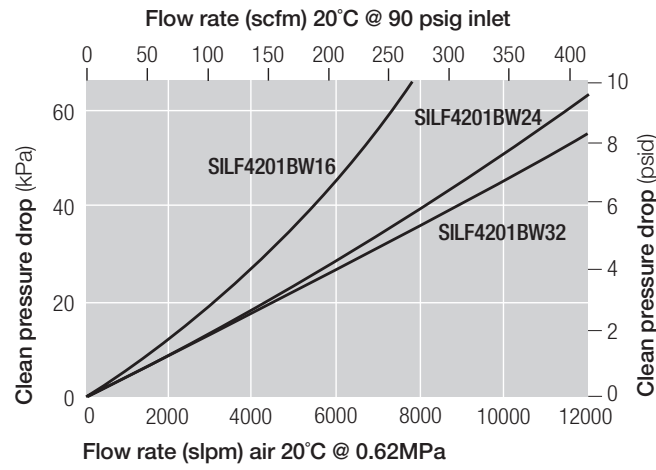
Maximum Operating Pressure	1.72 MPa @ 93 °C / 250 psig @ 200 °F
Maximum Allowable Forward Differential Pressure	0.69 MPa @ 20 °C / 100 psid @ 68 °F
Maximum Allowable Reverse Differential Pressure	0.34 MPa @ 20 °C / 50 psid @ 68 °F
Certifications	EU Pressure Equipment Directive: Assemblies comply with the European Union's Pressure Equipment Directive 2014/68/EU and are CE marked ASME: 168 mm (6.6 in) and 219 mm (8.6 in) diameter assemblies are designed, manufactured and stamped in accordance with the ASME Code
Leak Rating	100% helium leak tested to 1 x 10 ⁻⁹ atm-cm ³ /s

¹ Particle rating based on laboratory testing with NaCl aerosol.

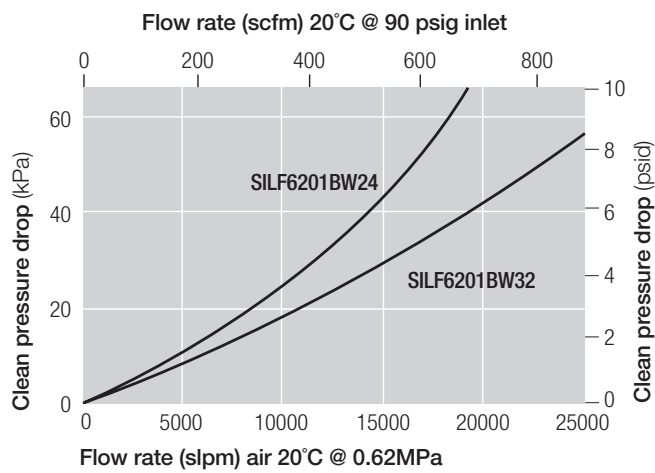
Pressure Drop vs. Gas Flow Rate



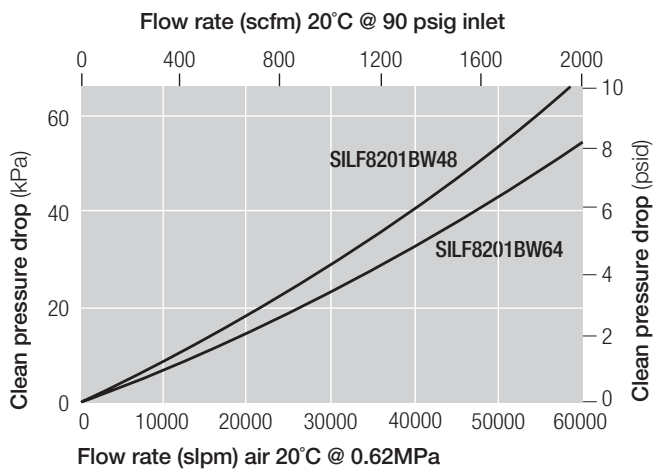
SILF2



SILF4

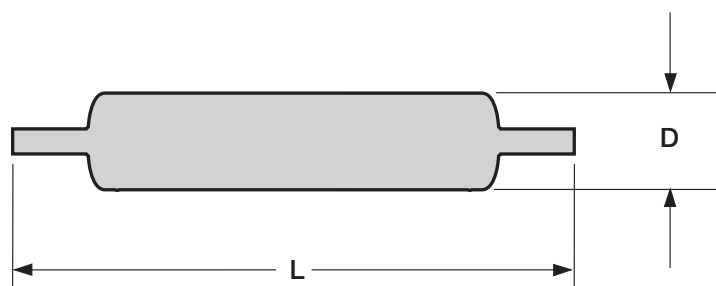


SILF6



SILF8

Dimensions



Part Numbers / Ordering Information

Part Number	Description	Nominal Diameter (D) (mm/in)	Nominal Length (L) (mm/in)
SILF2201BW12	22" tube, 3/4 " butt weld	64 / 2.5	781 / 30.8
SILF2201BW16	22" tube, 1 " butt weld	64 / 2.5	781 / 30.8
SILF4201BW16	22" tube, 1 " butt weld	102 / 4.0	826 / 32.5
SILF4201BW24	22" tube, 1 1/2 " butt weld	102 / 4.0	826 / 32.5
SILF4201BW32	22" tube, 2 " butt weld	102 / 4.0	826 / 32.5
SILF6201BW24	22" tube, 1 1/2 " butt weld	168 / 6.6	864 / 34.0
SILF6201BW32	22" tube, 2 " butt weld	168 / 6.6	864 / 34.0
SILF8201BW48	22" tube, 3 " butt weld	219 / 8.6	864 / 34.0
SILF8201BW64	22" tube, 4 " butt weld	219 / 8.6	864 / 34.0