

## GasGard™ Series F-6 In-Line Filter

**GasGard™ F-6 filter is designed to remove particles from Semiconductor process gases and specialty gases for flow rate up to 300 slpm (10 scfm).**

- ☑ Remove particles from ultra-pure process gases.
- ☑ 316L stainless steel welded housing withstand high pressure.
- ☑ PFA (Perfluoroalkoxy) support membrane selected can withstand high operating temperature and non-reactive to specialty and toxic gases.
- ☑ Pleated membrane for bigger filtration surface area, high flow rate and low initial pressure drop.
- ☑ Filters are packaged in special double bags to prevent moisture and oxygen contamination.
- ☑ Filter design and materials selection are optimized to eliminate flexing and shedding to ensure reliable downstream cleanliness. 100% tested with Helium Leakage Detection. Low particle shedding, low extractable and outgassing.
- ☑ Available in VCR Gasket Seal and Swagelok Compression seal to fit most systems and production equipment configurations.



### Applications:

- ☑ High Purity Compressed air.
- ☑ Process Specialty Gases
- ☑ In valve manifold box
- ☑ Toxic gases

### Performance Specifications

#### Particle Retention

>> 99.99% removal of particles greater than 0.003um diameter (verified at the most penetrating particle size)

#### Maximum differential pressure:

3.4 bard (3.47 kg/cm<sup>2</sup>d, 49 psid) @ 21°C (69.8°F)

5.5 bard (5.61 kg/cm<sup>2</sup>d, 80 psid) @ 121°C (249.8°F)

#### Recommended Flow Rate

Up to 300 slpm (10 scfm)

#### Maximum operating temperature:

170°C (338°F)

**Moisture < 10 ppb**

### External Certification:



Table 1: GasGard™ Series F-6 (GG1) has extra high flow rate at low pressure drop.

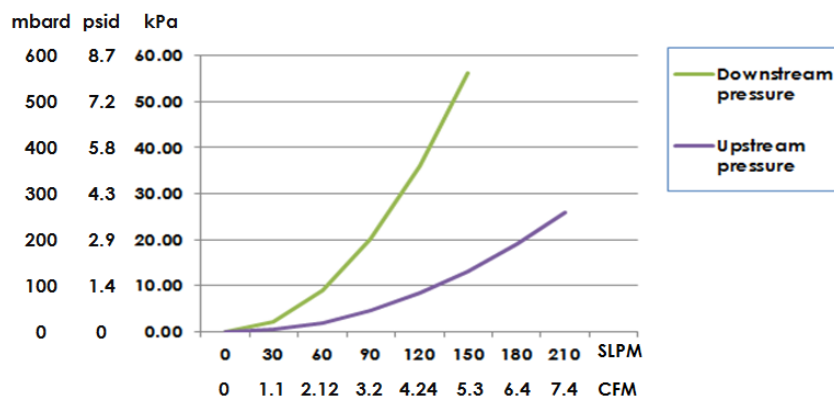
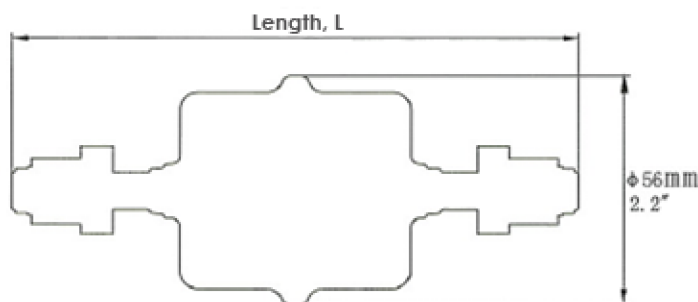


Table 2: Detailed ordering information.

Product Name	Filter Medium	Size Code	Fitting Options	Fitting Description	Length (in/mm)
e.g. GasGard F-6 1/4" VCR Male IN, 1/4" VCR Female Out					
<b>GG6</b>	<b>F</b>	<b>L</b>	<b>VMF4</b>		
GG6 =	F = PTFE	L	VMF4	1/4"Gasket Seal (VCR), Male inlet/Female outlet	5.56/141
GasGard	membrane		SM4S	1/4"Compression Seal (Swagelok), Male/Male	5.56/141
F-6 Filter	on PFA		SM6S	3/8"Compression Seal (Swagelok), Male/Male	5.81/148
			NPF4	1/4" NPT Female/Female	5.19/132
			VM6/8	3/8"Gasket Seal (VCR), Male/Male	5.81/148
		S	VM6/8	3/8"Gasket Seal (VCR), Male/Male	5.00/127

Figure 1: Dimension of the GasGard™ Series F-6 (GG6)



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