

GasPro™ TEM-1800

High Purity All-Fluoropolymer
316L In-Line Filter



GasPro™ TEM-1800 series filters are specifically designed for the filtration of UHP semiconductor gases. This all-welded assembly will deliver 0.003 micron particle retention.

A PTFE membrane and all-fluoropolymer support structure is enclosed in a 316L stainless steel electro-polished welded housing. Final assembly is purged with filtrated nitrogen for initial cleanliness.

A variety of fitting types is offered for easy installation.

Applications

- Point-of-use filtration of process specialty gases.
- Low pressure to vacuum delivery of silicon precursors via vapour or inert carrier gas.

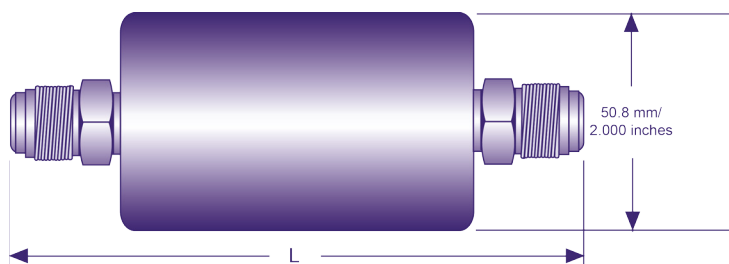
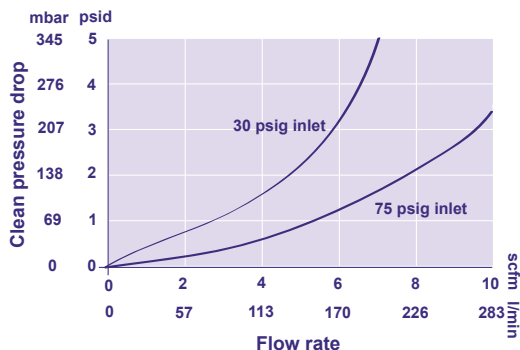
Specifications

- **3nm filter rating**
Our porous PTFE filters provide efficient particle retention efficiency at 0.003µm.
- **Maximum operating temperature**
121°C (250°F).
- **Maximum operating pressure**
17.2 bar (250 psig) @ 20°C (68°F).

Features and Benefits

- **PTFE media / PTFE support structure**
PTFE filter media provides excellent flow and chemical resistance.
- **Electro-polished 316L housing**
The filter assemblies have a 10Ra electro-polished 316L stainless steel housing to prevent corrosion and particle formation.
- **Cleanroom manufactured**
Our GasPro™ TEM-1800 filters are manufactured in a cleanroom to ensure particle free, chemically clean, and organic-free handling and bagging to provide high out-of-package cleanliness. Additional preconditioning is optional.
- **100% Helium tested**
100% Helium tested to greater than 1x10⁻⁹ atm cc/second.

Gas flow rate / Pressure drop



TEM-1800 Part Numbers and Ordering Information

Part Number	Inlet/Outlet Fittings	Filter Media / Housing	Other Materials	Length (L)
TEM-1811	1/4" compression inlet/outlet	PTFE / 316L stainless steel	All Fluoropolymer / FEP encapsulated Viton®	141.9mm (5.585")
TEM-1811-6	3/8" compression inlet/outlet			116.5mm (4.585")
TEM-1811-8	1/2" compression inlet/outlet			143.9mm (5.665")
TEM-1812-P	1/4" male face seal inlet/female outlet			141.2mm (5.561")
TEM-1815-6	3/8" male face seal inlet/outlet			132.6mm (5.22")
TEM-1850-6	3/8" butt weld inlet/outlet			143.9mm (5.665")
TEM-1850-8	1/2" butt weld inlet/outlet			143.9mm (5.665")

* FEP encapsulated FKM O-rings are available upon request. Not all fittings, lengths, and part numbers are shown on the chart. Please contact your Porvair representative or an approved Porvair distributor for special length and fitting options.

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filtration group

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