

GasPro™

TEM-1800

High Purity All-Fluoropolymer
In-Line Filter



GasPro™ TEM-1800 Series filters are designed for 3 nm particle retention up to flow rates of 10 scfm and temperatures of 121°C (250°F).

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

Applications

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

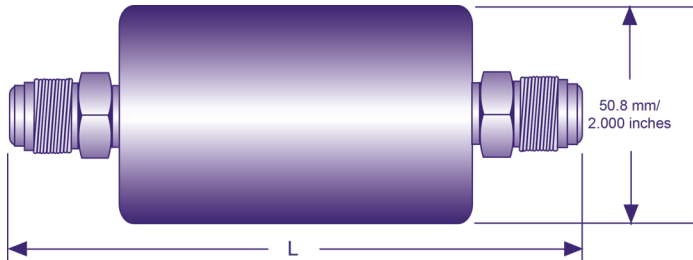
Specifications

- **Filtration rating**
Our porous PTFE filters provide efficient 3 nm particle retention.
- **Maximum operating temperature**
121°C (250°F) in inert gas.
- **Maximum operating pressure**
51.6 bar (750 psig) at 20°C (68°F).

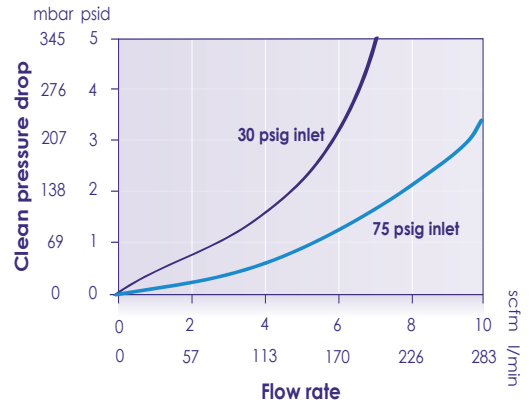
Features and Benefits

- **Electro-polished housing**
The filter assemblies have a <10Ra electro-polished 316L stainless steel housing to prevent corrosion and particle build-up on interior surfaces.
- **Out of package cleanliness**
Our GasPro™ TEM-1800 filters are cleaned and packaged in a cleanroom with organic free handling for out-of-package, particle free, and chemical free cleanliness. Final assembly is purged with filtered nitrogen for initial cleanliness. Additional preconditioning is optional.
- **100% helium leak tested**
All units tested to 1x10⁻⁹ atm cc/second.

Specifications



Gas flow rate vs 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 FKM	141.9 mm (5.585")
TEM-1811-6	3/8" compression inlet/outlet			116.5 mm (4.585")
TEM-1811-8	1/2" compression inlet/outlet			143.9 mm (5.665")
TEM-1812-P	1/4" male face seal inlet/female outlet			141.2 mm (5.561")
TEM-1815-6	3/8" male face seal inlet/outlet			132.6 mm (5.22")
TEM-1850-6	3/8" butt weld inlet/outlet			143.9 mm (5.665")
TEM-1850-8	1/2" butt weld inlet/outlet			143.9 mm (5.665")

* 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.