

GasPro™ TEM-800

High-Purity PTFE-316L
In-Line Filter



GasPro™ TEM-800 series filters are specifically designed for the filtration of semiconductor gases. This all-welded assembly will deliver 0.003 micron particle retention.

A PTFE membrane and polypropylene supported cartridge is enclosed in a 316L stainless steel electro-polished welded housing. Final assembly is purged with filtered nitrogen for initial cleanliness.

A variety of fitting types is offered for easy installation.

Applications

- General and process inert facilities gases.
- Clean-dry air (CDA*) for critical metrology, inspection and lithography applications.

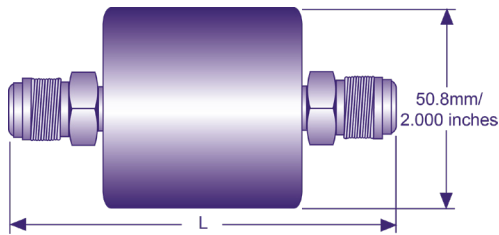
** In CDA and other facilities gas filtration applications, flow, temperature, particle challenge and other differences unique to each system, can affect overall filtration performance, and may affect the useful filtration period for each filter.*

Specifications

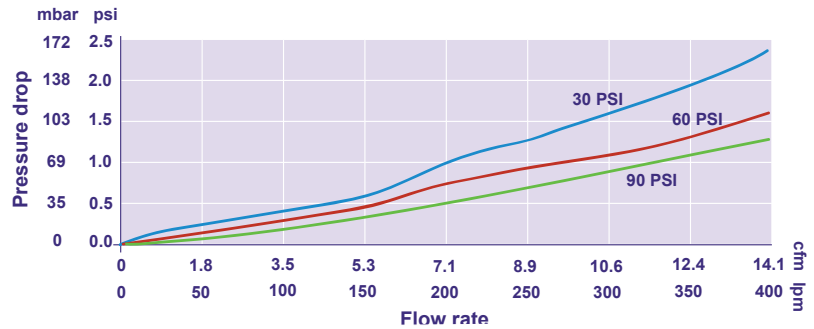
- **3nm filter rating**
Our porous PTFE filters provide efficient particle retention efficiency at 0.003µm.
- **Maximum operating temperature**
80°C (176°F). For CDA, please consult Porvair for suggested filter lifetime in applications above 60°C (140°F).
- **Maximum operating pressure**
51.7 bar (750 psig) at 20°C (68°F).

Features

- **Electro-polished 316L housing**
The filter assemblies have a 10Ra electro-polished 316L stainless steel housing to prevent corrosion and particle formation.
- **PTFE media / polypropylene / Viton® construction**
PTFE filter media provides excellent flow and chemical resistance.
- **Cleanroom manufactured**
Our GasPro™ TEM-800 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 pre-conditioning is optional.
- **100% helium**
100% helium to greater than 1x10⁻⁹ atm cc/second.



Gas flow rate / Pressure drop (1/2" VCR)



TEM-800 Part Numbers and Ordering Information

Part number	Inlet / outlet fittings	Filter media / housing	Other materials	Length (L)
TEM-811	1/4" compression inlet/outlet	PTFE / 316L stainless steel	Polypropylene Viton® seal*	82.3mm (3.24")
TEM-811-6	3/8" compression inlet/outlet			86.9mm (3.42")
TEM-811-8	1/2" compression inlet/outlet			99.1mm (3.90")
TEM-812	1/4" male/female face seal			94.7mm (3.73")
TEM-812-6	3/8" male/female face seal			115.8mm (4.56")
TEM-812-8	1/2" male/female face seal			115.8mm (4.56")
TEM-813	1/4" female/male face seal			94.7mm (3.73")
TEM-813-6	3/8" female/male face seal			115.8mm (4.56")
TEM-814	1/4" female/female face seal			94.7mm (3.73")
TEM-814-8	1/2" female/female face seal			115.8mm (4.56")
TEM-815	1/4" male face seal inlet/outlet			94.7mm (3.73")
TEM-815-6	3/8" male face seal inlet/outlet			115.8mm (4.56")
TEM-815-8	1/2" male face seal inlet/outlet			115.8mm (4.56")
TEM-825	1/4" male/male VCO			101.9mm (4.01")
TEM-828	1/4" FNPT inlet/outlet			90.9mm (3.58")
TEM-828-8	1/2" FNPT inlet/outlet			107.7mm (4.24")
TEM-829	1/4" male NPT inlet/outlet			90.0mm (3.58")

* 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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