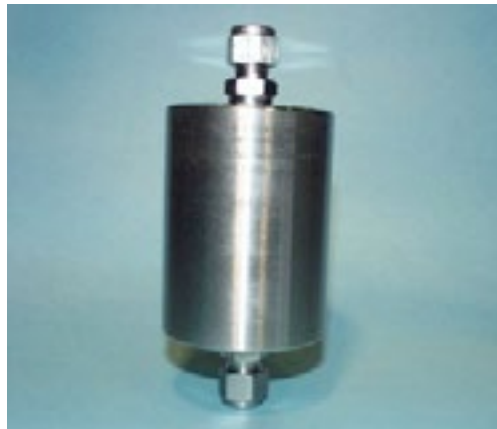


GasPro™ TEM-400

Ultra-High Flow PTFE-316L in-Line Filter

GasPro™ TEM-400 Series filters are specifically designed for filtration of semiconductor gases when flow rates to 2,123 l/min (75 scfm) are required. This all-welded assembly will deliver 0.003 micron particle retention where a high flow rate is required and space is limited. A variety of fitting types is offered for easy installation.

A PTFE Membrane and Polypro supported Cartridge is enclosed in a 316L stainless steel electro-polished welded housing. Final assembly is purged with filtrated nitrogen for initial cleanliness.



Features and Benefits

- **3nm Filter Rating**
Our porous PTFE filters provide efficient particle retention efficiency at $\geq 0.003\mu\text{m}$
- **High Flow**
GasPro™ TEM-400 is rated to 2,123 l/min (75 scfm)
- **PTFE Media / Polypropylene / Viton construction**
0.19 m² (2 ft²) 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.
- **Temperature and Pressure**
Operating temperature rating of 93.3°C (200°F) and operating pressure rating of 17.2 bar (250 psig).
- **Cleanroom manufactured**
Our GasPro™ TEM-400 filters are manufactured in a cleanroom to insure particle free, chemically clean, and organic-free handling and bagging to provide high out-of-package cleanliness. Additional preconditioning is optional.
- **ISO 9001 quality system**
Manufacturing quality and consistency is maintained in a cleanroom using ISO 9001 certified quality system. Each filter is helium leak checked to greater than 1x10⁻⁹ atm cc/second.
- **100% helium tested to greater than 1x10⁻⁹ atm cc/second.**

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Specifications

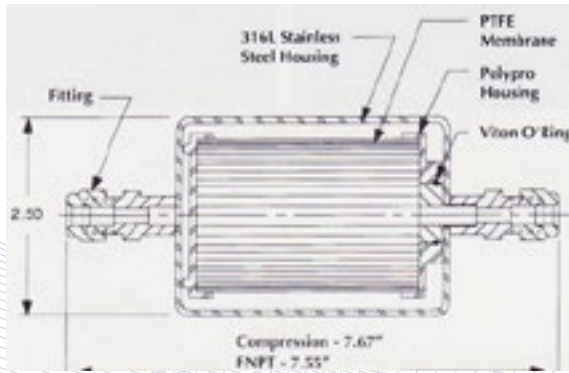
Part Numbers / Ordering Information

Part Number	Inlet / Outlet Fittings	Filter Media / Housing	Other Materials*	Length (in/mm)
TEM-428-6	3/8" FNPT inlet/outlet	PTFE / 316L Stainless Steel	Polypropylene/Viton	7.55/192
TEM-428-8	1/2" FNPT inlet/outlet			7.55/192
TEM-411-6	3/8" compression inlet/outlet			7.67/195
TEM-411-8	1/2" compression inlet/outlet			7.67/195
TEM-415-6	3/8" male face seal inlet/outlet			8.6/218
TEM-415-8	1/2" face seal female inlet/male outlet			8.6/218
TEM-450-6	3/8" butt weld			7.7/196
TEM-450-8	1/2" butt weld			7.7/196
TEM-450-12	3/4" butt weld			7.7/196

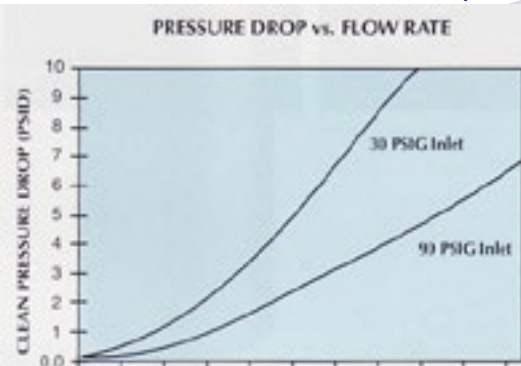
* FEP encapsulated FKM O-rings are available upon request.

* Not all fittings, lengths, and part numbers are shown on the chart. Please contact your Porvair or an approved Porvair distributor for special length and fitting options.

Dimensions



Gas Flow Rate / Pressure Drop



Filter Chart

TEM Model	Fitting Description
TEM-42B-6	3/8" FNPT Fittings
TEM-428-8	1/2" FNPT Fittings
TEM-42B-6	3/8" Swagelck Fittings
TEM-411-8	1/2" Swagelck Fittings
TEM-411-6	3/8" VCR Fittings
TEM-415-8	1/2" VCR Fittings
TEM-450-BW8	3/8" Butt Welding
TEM-450-BW8	1/2" Butt Weld Fitting
TEM-450-BW12	3/4" Butt Weld Fitting

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