

GasPro™ TEM-1300

Ultra-High Flow All Fluoropolymer-316L In-Line Filter

GasPro™ TEM-1300 Series filters are specifically designed for filtration of UHP semiconductor gases when flow rates to 3,540 lpm (125 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 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.



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 -1300 is rated to 3,540 lpm (125 scfm)
- **PTFE Media / All fluoropolymer Support Structure**
0.65 m²(7 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 150°C (302°F) and Operating pressure rating of 17.2 bar (250 psig)
- **Cleanroom manufactured**
Our GasPro™ TEM-1300 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.
- **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 Material*	Length(L)
TEM-1311-8	0.5" compression inlet/outlet	PTFE / 316L Stainless Steel	All Fluoropolymer / FEP encapsulated Viton	13.95" (354mm)
TEM-1311-16	1.0" compression inlet/outlet			15.0" (381mm)
TEM-1311-24	1.5" compression inlet/outlet			consult factory
TEM-1315-16	1.0" male gasket seal inlet/outlet			15.79" (401mm)
TEM-1315-24	1.5" male gasket seal inlet/outlet			15.79" (401mm)
TEM-1350-16	1.5" tube stub nlet/outlet			consult factory
TEM-1311-8	0.5" compression inlet/outlet			15.19" (386mm)

* 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.

Dimensions

Gas Flow Rate / Pressure Drop



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