

GasPro™ TEM-300

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

GasPro™ TEM-300 Series filters are specifically designed for filtration of semiconductor gases when flow rates to 3,398 l/min (120 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-300 is rated to 3,398 l/min (120 scfm)
- **PTFE Media / Polypropylene / Viton construction**
.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 93.3°C (200°F) and operating pressure rating of 17.2 bar (250 psig).
- **Cleanroom manufactured**
Our GasPro™ TEM-300 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-311-8	0.5" compression inlet/outlet	PTFE / 316L Stainless Steel	Polypropylene/Viton	14.0/356
TEM-311-16	1.0" compression inlet/outlet			15.0/381
TEM-311-24	1.5" compression inlet/outlet			consult factory
TEM-315-16	1.0" male gasket seal inlet/outlet			15.79/401
TEM-315-24	1.5" male gasket seal inlet/outlet			15.79/401
TEM-350-16	1.0" tube stub inlet/outlet			consult factory
TEM-350-24	1.5" tube stub inlet/outlet			15.19/386

* FEP encapsulated FKM C-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.

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