

# GasPro™ TEM-500

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

GasPro™ TEM-500 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-500 is rated to 708 l/min (25 scfm)
- **PTFE Media / Polypropylene / Viton construction**  
0.11 m<sup>2</sup> (1.2 ft<sup>2</sup>) 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-500 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<sup>-9</sup> atm cc/second.
- **100% helium tested to greater than 1x10<sup>-9</sup> atm cc/second.**

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# Specifications

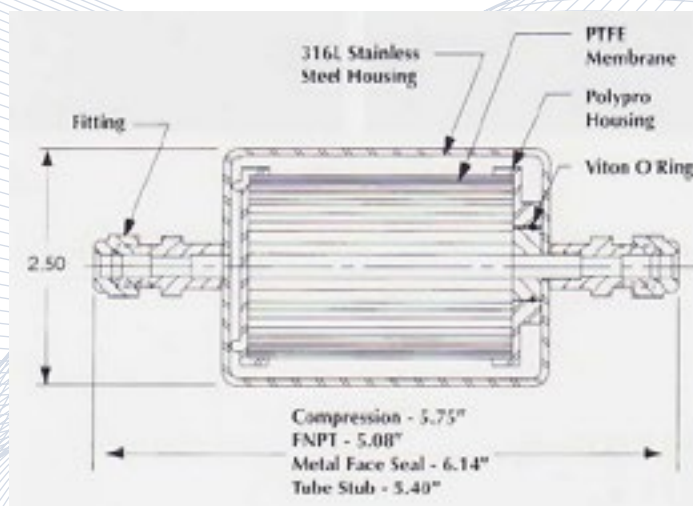
## Part Numbers / Ordering Information

Part Number	Inlet / Outlet Fittings	Filter Media / Housing	Other Materials	Length (in/mm)
TEM-528-6	3/8" FNPT inlet/outlet	PTFE / 316L Stainless Steel	Polypropylene/Viton	5.25/133
TEM-528-8	1/2" FNPT inlet/outlet			5.77/147
TEM-528-12	3/4" FNPT inlet/outlet			5.94/151
TEM-511-6	3/8" compression inlet/outlet			5.75/146
TEM-511-8	1/2" compression inlet/outlet			5.75/146
TEM-513-8	1/2" face seal female inlet/male outlet			8.14/207
TEM-515-6	3/8" male face seal inlet/outlet			6.14/156
TEM-515-8	1/2" male face seal inlet/outlet			6.14/156
TEM-515-12	3/4" male face seal inlet/outlet			6.14/156
TEM-550-6	3/8" butt weld			5.4/137
TEM-550-8	1/2" butt weld			5.4/137
TEM-550-12	3/4" butt weld			5.4/137

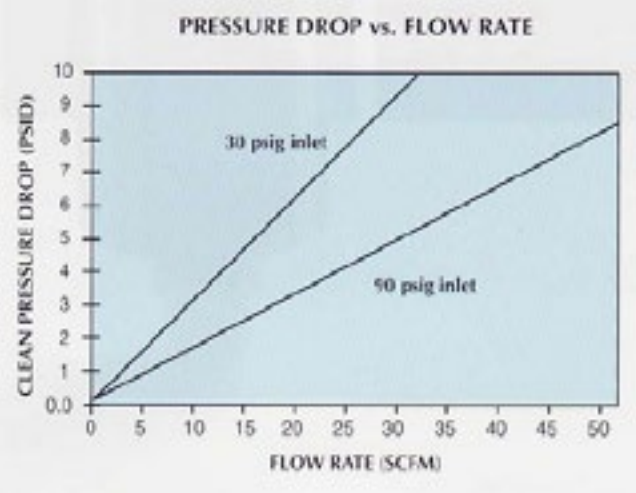
\* FEP encapsulated FKM O-rings are available upon request.

\* 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



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