

# GasPro™ TEM-100

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

GasPro™ TEM-100 Series filters are specifically designed for filtration of semiconductor gases when flow rates to 8,495 l/min (300 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-100 is rated to 8,495 l/min (300 scfm) making it ideal for applications that require high flow rates
- **PTFE Media / Polypropylene / Viton construction**  
1.95 m<sup>2</sup> (21 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-100 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  $1 \times 10^{-9}$  atm cc/second.
- **100% helium tested to greater than  $1 \times 10^{-9}$  atm cc/second.**

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# Specifications

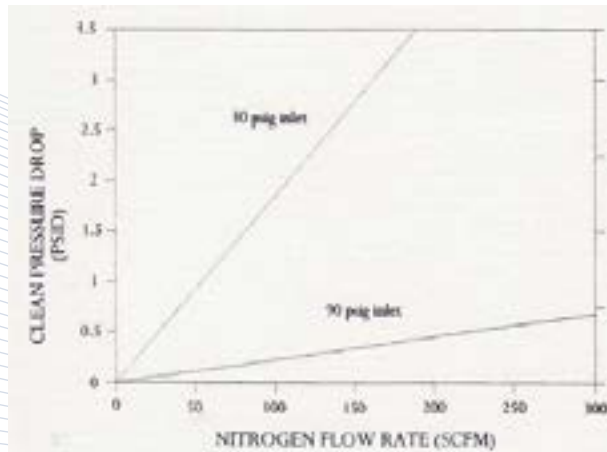
## Part Numbers / Ordering Information

Part Number	Inlet/Outlet Fittings	Filter Media / Housing	Other Materials	Length (in/mm)
TEM-111-16	1.0" compression inlet/outlet	PTFE / 316L Stainless Steel	Polypropylene/Viton	35.0/889
TEM-111-24	1.5" compression inlet/outlet			35.0/889
TEM-150-16	1.0" tube stub inlet/outlet			35.0/889
TEM-150-24	1.5" tube stub inlet/outlet			35.0/889
TEM-115-16	1.0" male gasket seal inlet/outlet			35.0/889
TEM-115-24	1.5" male gasket seal inlet/outlet	35.0/889		

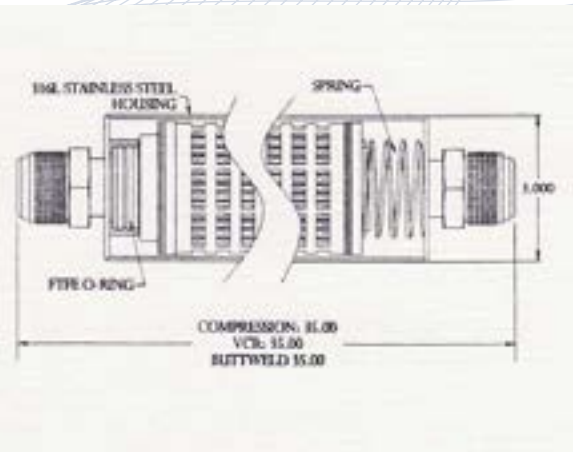
\* FEP encapsulated FKM O-rings are available upon request.

\* 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.

## Gas flow Rate / Pressure Drop



## Dimensions



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