

# GasPro™ TEM-1100

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

GasPro™ TEM-1100 Series filters are specifically designed for filtration of UHP semiconductor gases when flow rates to 8,495 lpm (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 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-1100 is rated to 8,495 lpm (300 scfm) making it ideal for ultra-high purity applications that require high flow rates.
- **PTFE Media / All fluoropolymer Support Structure**  
0.95 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 or better 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-1100 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<sup>-9</sup> atm cc/second.**

Viton is a registered trademark of The Chemours Company



# Specifications

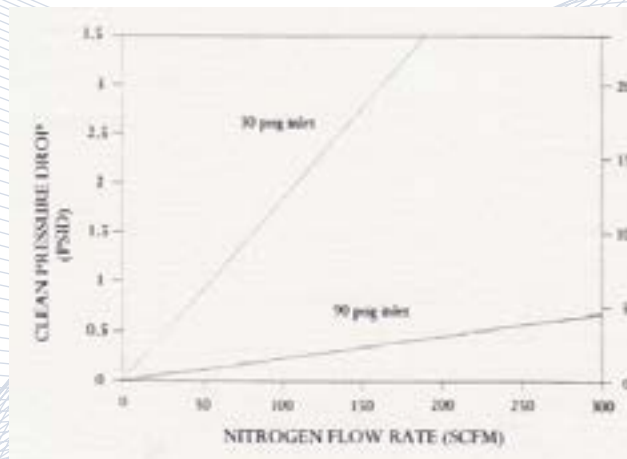
## Part Numbers / Ordering Information

Part Number	Inlet/Outlet Fittings	Filter Media / Housing	Other Material	Length (L)
TEM-1111-16	1.0" compression inlet/outlet	PTFE / 316L Stainless Steel	All Fluoropolymer / FEP encapsulated Viton seal	35.0" (889mm)
TEM-1111-24	1.5" compression inlet/outlet			35.0" (889mm)
TEM-1150-16	1.0" tube stub inlet/outlet			35.0" (889mm)
TEM-1150-24	1.5" tube stub inlet/outlet			35.0" (889mm)
TEM-1115-16	1.0" male gasket seal inlet/outlet			35.0" (889mm)
TEM-1115-24	1.5" male gasket seal inlet/outlet			35.0" (889mm)

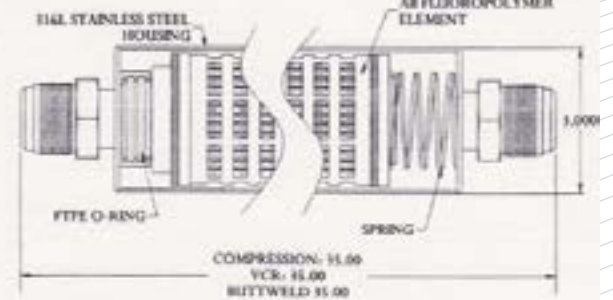
\* FEP encapsulated FKM O-rings are available upon request

\* 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.

## Gas flow Rate / Pressure Drop



## Dimensions



### Porvair Filtration Group Inc.

1226 Caldwell Blvd.  
Nampa, Idaho 83651  
Tel: +1 208 461 2090  
Fax: +1 208 461 5794

Porvair High-Purity Gas Product  
Information  
Info@GasProfilters.com

### Porvair Filtration Group Ltd.

1 Concorde Close  
Segensworth, Fareham  
Hampshire, PO15 5RT, UK  
Tel: +44 (0) 1489 864330  
Fax: +44 (0) 1489 864399

[www.porvairfiltration.com](http://www.porvairfiltration.com)

Porvair is a registered trademark of Porvair plc.

GasPro is a trademark of Porvair plc.

Hasfelloy is a registered trademark of Haynes International Inc.

VCR is a registered trademark of Swagelok Company.

© Copyright 2017, Porvair Filtration Group Ltd. All rights reserved.

While every effort has been made to ensure the accuracy of this document, due to continuous product development, the data contained is subject to constant revision and Porvair Filtration Group Ltd. reserves the right to change, alter or modify its contents.