

GasPro™ TEM-900

High Purity All
Fluoropolymer 316L
In-Line Filter

GasPro™ TEM-900 series filters are specifically designed for the filtration of semiconductor gases. This all-welded assembly will deliver 0.003 micron particle retention.

With all an internal fluoropolymer construction, including a PTFE membrane and support structure, enclosed in a 316L stainless steel electro-polished welded housing, the TEM-900 is suitable for critical semiconductor process gas applications.

Final assembly is purged with filtered nitrogen for initial cleanliness.

Applications

- Point-of-use semiconductor speciality gas filtration.
- Inert and speciality gas delivery.



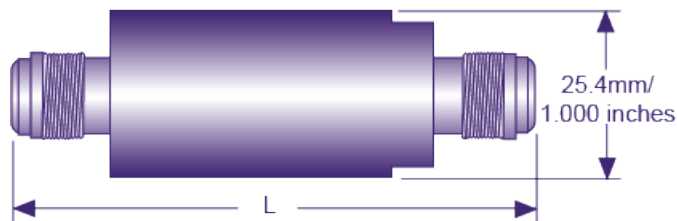
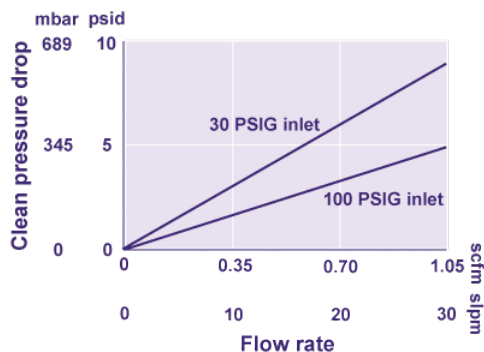
Specifications

- **3nm filter rating**
Our porous PTFE filters provide efficient particle retention efficiency at 0.003µm.
- **Maximum operating temperature**
121°C (250°F).
- **Maximum operating pressure**
207 bar (3000 psig) at 20°C (68°F).

Features and benefits

- **PTFE media / PTFE support construction**
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.
- **Cleanroom manufactured**
Our GasPro™ TEM-900 filters are manufactured in a cleanroom to ensure particle free, chemically clean, and organic-free handling and bagging to provide high out-of-package cleanliness. Additional preconditioning is optional.
- **100% Helium tested**
100% Helium tested to greater than 1x10⁻⁹ atm cc/second.

Gas flow rate / Pressure drop



TEM-900 Part Numbers and Ordering Information

Part Number	Inlet/Outlet Fittings	Filter Media / Housing	Other Materials	Length (L)
TEM-911	1/4" compression inlet/outlet	PTFE / 316L stainless steel	PTFE / FEP encapsulated Viton®	73.2mm (2.88")
TEM-911-6	3/8" compression inlet/outlet			89.4mm (3.52")
TEM-912	1/4" male/female face seal			91.4mm (3.60")
TEM-913	1/4" female/male face seal			87.8mm (3.46")
TEM-914	1/4" female/female face seal			97.8mm (3.85")
TEM-915	1/4" male face seal inlet/outlet			84.1mm (3.31")
TEM-915-8	1/2" male face seal inlet/outlet			84.1mm (3.31")
TEM-925	1/4" male/male VCO			76.2mm (3.11")

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.



Porvair Filtration Group Ltd.

Queensway
Stem Lane, New Milton,
Hampshire, BH25 5NN, UK
Tel: +44 (0)1425 612010
Email: microelectronics@porvairfiltration.com

Porvair Filtration Group Inc.

1226 Caldwell Blvd.
Nampa, Idaho 83651, USA
Tel: +1 208 461 2090
Fax: +1 208 461 5794
Email: microelectronics@porvairfiltration.com

Porvair Filtration Group

Chengdong Area
Square Industrial Park, North District
Xiaonan Economic Development Zone
Xiaogan, 432000, China
Tel: +86 (0)712 2878955
Email: infoCN@porvairfiltration.com

Porvair Filtration India PVT. Ltd.

Gangotri Glacier Annex, Kavesar
Opposite Vijay Nagari, Off Ghodbunder Road
Thane (W), 400607, India
Tel: +91 22 25 976464 / +91 22 25 976465
Email: infoIN@porvairfiltration.com

Porvair is a registered trademark of Porvair plc.

GasPro is a trademark of Porvair plc.

Teflon is a trademark of The chemours Company FC, L.L.C.

VCO is a trademark of Swagelok Company.

Viton is a registered trademark of DuPont Performance Elastomers L.L.C.

© Copyright 2018, Porvair Filtration Group Ltd. All rights reserved.

Whilst 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.