

# GasPro™ TEM-800

High Purity PTFE-316L  
In-Line Filter



GasPro™ TEM-800 series filters are specifically designed for the filtration of semiconductor gases. This all-welded assembly will deliver 0.003 micron particle retention.

A PTFE membrane and polypropylene supported cartridge is enclosed in a 316L stainless steel electro-polished welded housing. Final assembly is purged with filtered nitrogen for initial cleanliness.

A variety of fitting types is offered for easy installation.

## Applications

- General and process inert facilities gases.
- Clean-dry air (CDA) for critical metrology, inspection and lithography applications.

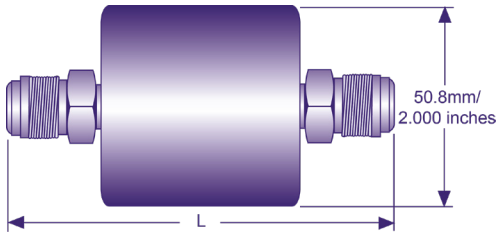
## Specifications

- **3nm filter rating**  
Our porous PTFE filters provide efficient particle retention efficiency at 0.003µm.
- **Maximum operating temperature**  
80°C (176°F).
- **Maximum operating pressure**  
51.7 bar (750 psig) at 20°C (68°F).

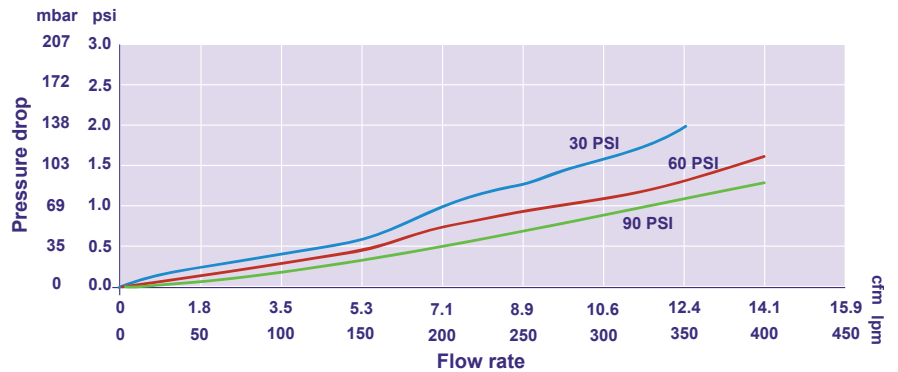
## Features and Benefits

- **Electro-polished 316L housing**  
The filter assemblies have a 10Ra electro-polished 316L stainless steel housing to prevent corrosion and particle formation.
- **PTFE media / polypropylene / Viton® construction**  
PTFE filter media provides excellent flow and chemical resistance.
- **Cleanroom manufactured**  
Our GasPro™ TEM-800 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 pre-conditioning is optional.
- **100% Helium tested**  
100% Helium tested to greater than 1x10<sup>-9</sup> atm cc/second.

*\* In CDA and other facilities gas filtration applications, flow, temperature, particle challenge and other differences unique to each system, can affect overall filtration.*



Gas flow rate / Pressure drop



### TEM-800 Part Numbers and Ordering Information

| Part Number | Inlet/Outlet Fittings            | Filter Media / Housing      | Other Materials            | Length (L)      |
|-------------|----------------------------------|-----------------------------|----------------------------|-----------------|
| TEM-811     | 1/4" compression inlet/outlet    | PTFE / 316L stainless steel | Polypropylene Viton® seal* | 82.3mm (3.24")  |
| TEM-811-6   | 3/8" compression inlet/outlet    |                             |                            | 86.9mm (3.42")  |
| TEM-811-8   | 1/2" compression inlet/outlet    |                             |                            | 99.1mm (3.90")  |
| TEM-812     | 1/4" male/female face seal       |                             |                            | 94.7mm (3.73")  |
| TEM-812-6   | 3/8" male/female face seal       |                             |                            | 115.8mm (4.56") |
| TEM-812-8   | 1/2" male/female face seal       |                             |                            | 115.8mm (4.56") |
| TEM-813     | 1/4" female/male face seal       |                             |                            | 94.7mm (3.73")  |
| TEM-813-6   | 3/8" female/male face seal       |                             |                            | 115.8mm (4.56") |
| TEM-814     | 1/4" female/female face seal     |                             |                            | 94.7mm (3.73")  |
| TEM-814-8   | 1/2" female/female face seal     |                             |                            | 115.8mm (4.56") |
| TEM-815     | 1/4" male face seal inlet/outlet |                             |                            | 94.7mm (3.73")  |
| TEM-815-6   | 3/8" male face seal inlet/outlet |                             |                            | 115.8mm (4.56") |
| TEM-815-8   | 1/2" male face seal inlet/outlet |                             |                            | 115.8mm (4.56") |
| TEM-825     | 1/4" male/male VCO               |                             |                            | 101.9mm (4.01") |
| TEM-828     | 1/4" FNPT inlet/outlet           |                             |                            | 90.9mm (3.58")  |
| TEM-828-8   | 1/2" FNPT inlet/outlet           |                             |                            | 107.7mm (4.24") |
| TEM-829     | 1/4" male NPT inlet/outlet       |                             |                            | 90.0mm (3.58")  |

\* 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.



#### 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.