

GasPro™ TEM-200

Ultra-High Flow PTFE-316L
In-Line Filter



GasPro™ TEM-200 series filters are specifically designed for the filtration of semiconductor gases when ultra-high flow rates 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 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 processes including front opening unified pod (FOUP) cleaning and photolithography.

Specifications

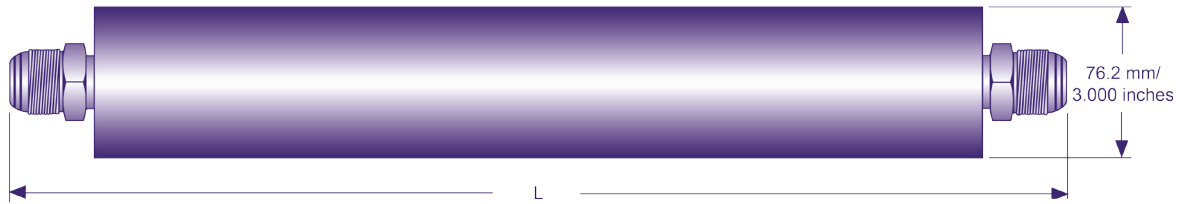
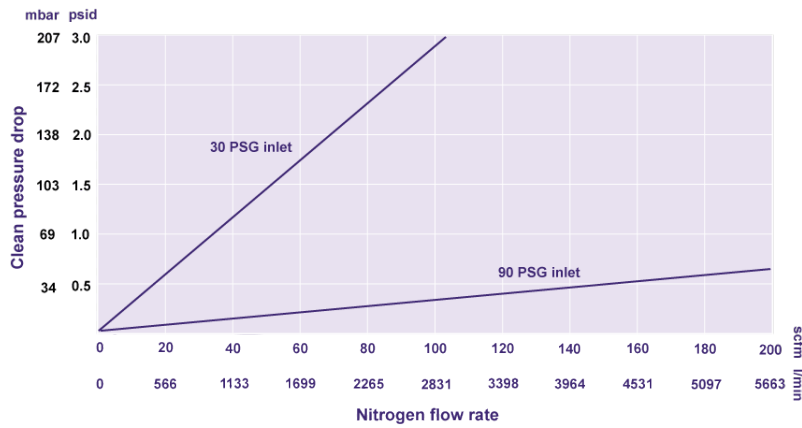
- **3nm filter rating**
Our porous PTFE filters provide efficient particle retention efficiency at 0.003µm.
- **Maximum operating temperature**
80°C (176°F).
- **Maximum operating pressure**
17.2 bar (250 psig) @ 20°C (68°F).

Features and Benefits

- **PTFE media / polypropylene / Viton® construction**
1.3 m² (14 ft²) 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-200 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.

* In CDA and other facilities gas filtration applications, flow, temperature, particle challenge, and other differences unique to each system, can affect overall filtration performance, and may affect the useful filtration period for each filter.

Gas flow rate / Pressure drop



TEM-200 Part Numbers and Ordering Information

| Part Number | Inlet/Outlet Fittings | Filter Media / Housing | Other Materials | Length (L) |
|-------------|------------------------------------|--------------------------------|-------------------------------|------------------|
| TEM-215-16 | 1.0" male gasket seal inlet/outlet | PTFE / 316L stainless steel | Polypropylene Viton® seal* | 658.4mm (25.92") |
| TEM-228-16 | 1.0" female NPT inlet/outlet | | | 640.1mm (25.2") |
| TEM-228-24 | 1.5" tube stub inlet/outlet | | | 637.5mm (25.1") |
| TEM-250-32 | 2.0" tube stub inlet/outlet | | | 637.5mm (25.1") |

* 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.

Gangothri 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.

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.