

GasPro™ TEM-1500

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

GasPro™ TEM-1500 Series filters are specifically designed for filtration of UHP semiconductor gases. 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.

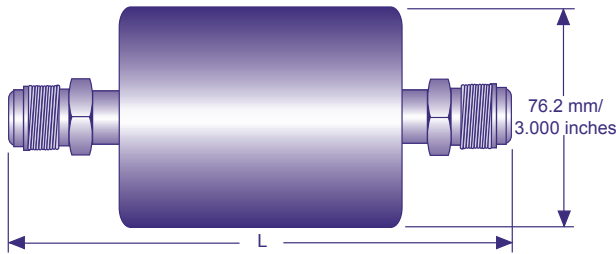
Applications

- High-flow ultra-high purity inert and specialty gases.

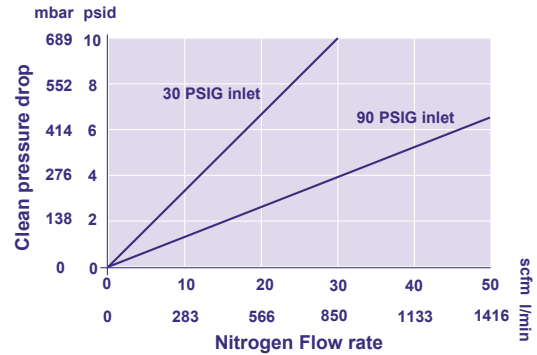


Features and Benefits

- **3nm filter rating**
Our porous PTFE filters provide efficient particle retention efficiency at 0.003µm
- **PTFE media / all fluoropolymer support structure**
0.19 m² (2 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.
- **Maximum operating temperature**
150°C (302°F)
- **Maximum operating pressure**
17.2bar (250psig) at 250F (121.1C)
- **100% helium tested**
100% helium leak tested to greater than 1x10⁻⁹ atm cc/second
- **Cleanroom manufactured**
Our GasPro™ TEM-1500 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.



Gas flow rate vs Pressure drop



TEM -1500 Part Numbers and Ordering Information

| Part number | Inlet/outlet fittings | Filter media/housing | Other materials* | Length (L) |
|--------------|----------------------------------|-----------------------------|--|------------------|
| TEM-1511-8 | 1/2" compression inlet/outlet | PTFE / 316L stainless steel | All fluoropolymer/ FEP encapsulated Viton* | 7.00" (178mm) |
| TEM-1515-8P | 1/2" male face seal inlet/outlet | | | 7.75" (197mm) |
| TEM-1515-12 | 3/4" male face seal inlet/outlet | | | 8.59" (218mm) |
| TEM-1550-12P | 3/4" butt weld inlet/outlet | | | 11.61" (294.9mm) |

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.



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