

GasPro™ TEM-1700

Ultra-High Purity All 316L
In-Line Filter



GasPro™ TEM-1700 series filters are specifically designed for filtration of UHP semiconductor gases when a compact, all-metal design is required. This all-welded assembly will deliver 0.003 micron particle retention where a low pressure drop is required and space is limited.

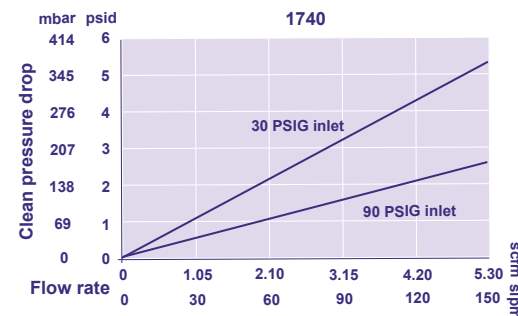
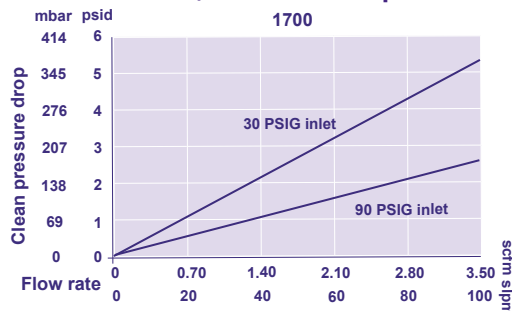
The all 316L steel welded filter offers excellent bake-out characteristics for fast dry downs and in-line qualification.

Standard semiconductor industry fittings are offered for easy installation.

Applications

- Gas cabinet and stick specialty gas filtration.
- Gas panel point-of-use process gas filtration.

Gas flow rate / Pressure drop

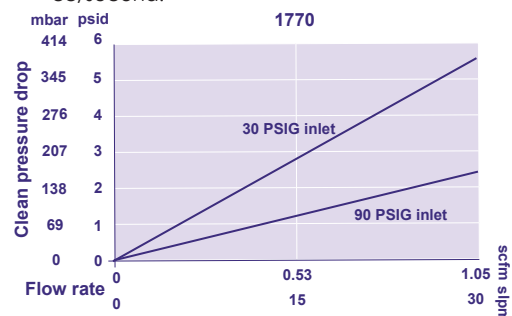


Specifications

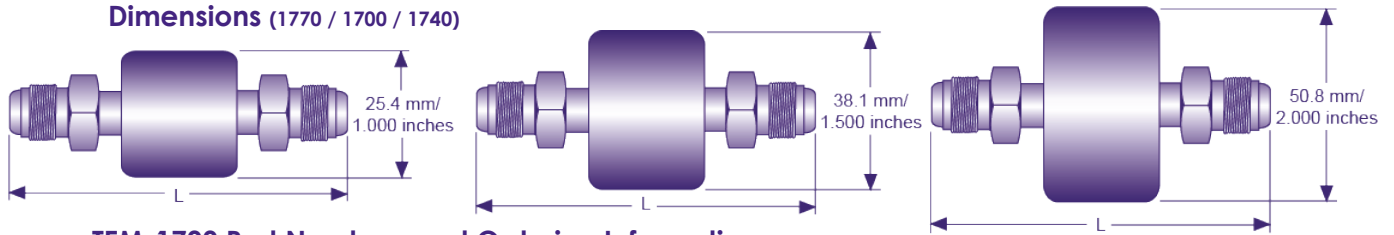
- **3nm filter rating**
Efficient particle retention efficiency at 0.003µm.
- **Maximum operating temperature**
450°C (842°F) in inert gas.
- **Maximum operating pressure**
1770 Series: 206.8 bar (3,000 psig) at 20°C (68°F)
1700 and 1740 Series: 172.4 bar (2,500 psig) at 20°C (68°F).

Features and benefits

- **Robust**
All welded sintered 316L stainless fibre media and hardware.
- **Electro-polished 316L housing**
The filter assemblies have a 7Ra electro-polished 316L stainless steel housing to prevent corrosion and particle formation.
- **Cleanroom manufactured**
Our GasPro™ TEM-1700 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.
- **100% Helium tested**
100% Helium tested to greater than 1x10⁻⁹ atm cc/second.



Dimensions (1770 / 1700 / 1740)



TEM-1700 Part Numbers and Ordering Information

| Part Number | Rated Flow | Description* | Filter Media / Housing | Filter Housing OD | Length (L) |
|-------------|-----------------------|--------------------|------------------------|-------------------|---------------|
| TEM-1771 | 30 slpm / (1.06 scfm) | 1/4" compression | All 316L | 25.4mm / 1.00" | 73mm (2.88") |
| TEM-1772 | | 1/4" M/F face seal | | | 84mm (3.31") |
| TEM-1773 | | 1/4" F/M face seal | | | 84mm (3.31") |
| TEM-1774 | | 1/4" F/F face seal | | | 84mm (3.31") |
| TEM-1775 | | 1/4" M/M face seal | | | 84mm (3.31") |
| TEM-1711 | 75 slpm / (2.65 scfm) | 1/4" compression | All 316L | 38.1mm / 1.50" | 73mm (2.88") |
| TEM-1712 | | 1/4" M/F face seal | | | 84mm (3.31") |
| TEM-1713 | | 1/4" F/M face seal | | | 84mm (3.31") |
| TEM-1714 | | 1/4" F/F face seal | | | 84mm (3.31") |
| TEM-1715 | | 1/4" M/M face seal | | | 86.4mm (3.4") |
| TEM-1750 | 1/4" butt weld | 50.8mm (2.00") | | | |
| TEM-1741 | 150 slpm / (5.3 scfm) | 1/4" compression | All 316L | 50.8mm / 2.00" | 73mm (2.88") |
| TEM-1742 | | 1/4" M/F face seal | | | 84mm (3.31") |
| TEM-1743 | | 1/4" F/M face seal | | | 84mm (3.31") |
| TEM-1744 | | 1/4" F/F face seal | | | 84mm (3.31") |
| TEM-1745 | | 1/4" M/M face seal | | | 84mm (3.31") |
| TEM-17450 | 1/4" butt weld | 44.5mm (1.75") | | | |

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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