

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.

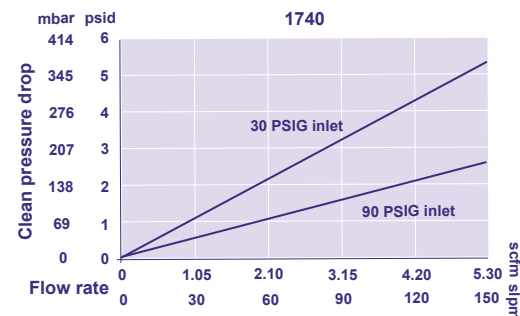
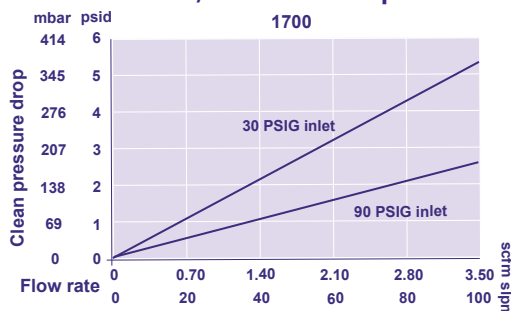
The all 316L steel welded filter offers excellent bake-out characteristics for fast dry downs and in-line qualification.

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

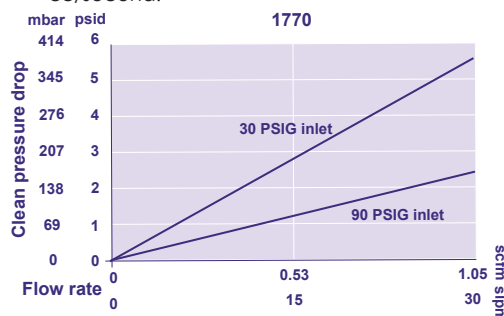


Specifications

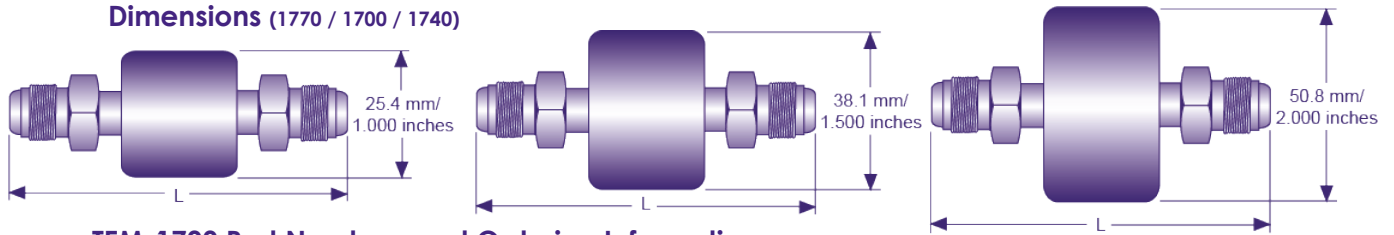
- **3nm filter rating**
Efficient particle retention efficiency at 0.003µm.
- **Maximum operating temperature**
450°C (842°F) in inert gas.
- **Maximum operating pressure**
1770 Series: 206.8 bar (3,000 psig) at 20°C (68°F)
1700 and 1740 Series: 172.4 bar (2,500 psig) at 20°C (68°F).

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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