

## GasPro™ TEM-3700

Ultra-High Purity Nickel  
316L In-Line Filter



GasPro™ TEM-3700 series filters are specifically designed for the filtration of UHP semiconductor gases when a compact, all-metal, corrosion tolerant design is required. This all-welded assembly will deliver 0.003 micron particle retention where low pressure drop is required and space limited.

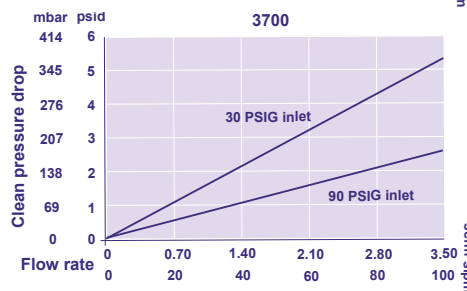
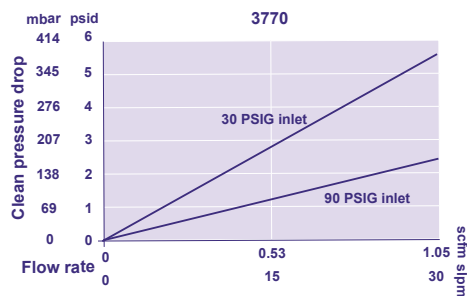
The Nickel media is enclosed in 316L stainless steel all-welded filter offers excellent bake-out characteristics for fast dry downs and in-line qualification.

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 (3770 / 3700 / 3740)

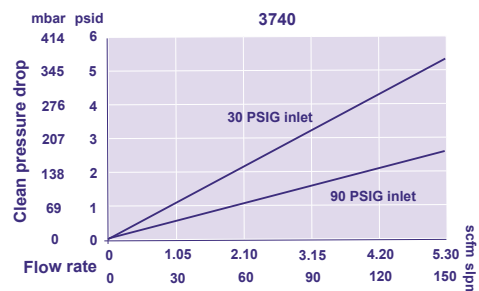


### Specifications

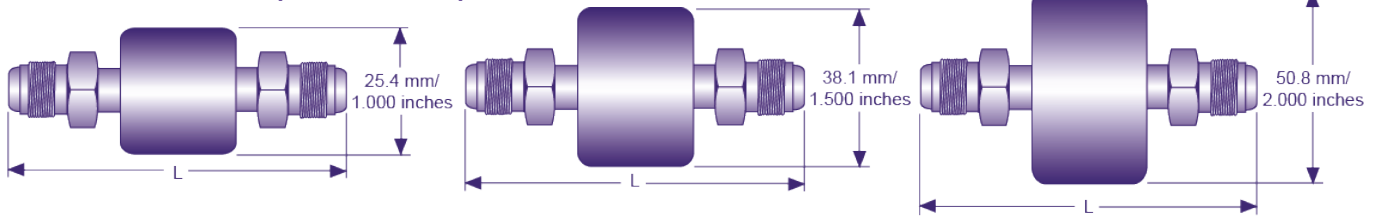
- **3nm filter rating**  
Efficient particle retention efficiency at 0.003µm.
- **Maximum operating temperature**  
425°C (797°F) in inert gas.
- **Maximum operating pressure**  
3770 Series: 206.8 bar (3,000 psig) at 20°C (68°F)  
3700 and 3740 Series: 172.4 bar (2,500 psig) at 20°C (68°F).

### Features and benefits

- **Electro-polished 316L housing**  
The filter assemblies have a 7Ra electro-polished 316L stainless steel housing to prevent corrosion and particle formation.
- **Robust**  
The filter assemblies All welded sintered nickel fibre - 316L stainless hardware.
- **Cleanroom manufactured**  
Our GasPro™ TEM-3700 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<sup>-9</sup> atm cc/second.



### Dimensions (3770 / 3700 / 3740)



### TEM-3700 Part Numbers and Ordering Information

Part Number	Rated Flow	Description*	Filter Media / Housing	Filter Housing OD	Length (L)
TEM-3771	30 slpm / (1.06 scfm)	1/4" compression	Nickel Media 316L Housing	25.4mm / 1.00"	73mm (2.88")
TEM-3772		1/4" M/F face seal			84mm (3.31")
TEM-3773		1/4" F/M face seal			84mm (3.31")
TEM-3774		1/4" F/F face seal			84mm (3.31")
TEM-3775		1/4" M/M face seal			84mm (3.31")
TEM-3750		1/4" butt weld			44.5mm (1.75")
TEM-3711	75 slpm / (2.65 scfm)	1/4" compression	Nickel Media 316L Housing	38.1mm / 1.50"	73mm (2.88")
TEM-3712		1/4" M/F face seal			84mm (3.31")
TEM-3713		1/4" F/M face seal			84mm (3.31")
TEM-3714		1/4" F/F face seal			84mm (3.31")
TEM-3715		1/4" M/M face seal			84mm (3.31")
TEM-3715-8		1/2" M/M face seal			86.4mm (3.4")
TEM-3750	1/4" butt weld	50.8mm (2.00")			
TEM-3741	150 slpm / (5.3 scfm)	1/4" compression	Nickel Media 316L Housing	50.8mm / 2.00"	73mm (2.88")
TEM-3742		1/4" M/F face seal			84mm (3.31")
TEM-3743		1/4" F/M face seal			84mm (3.31")
TEM-3744		1/4" F/F face seal			84mm (3.31")
TEM-3745		1/4" M/M face seal			84mm (3.31")
TEM-3745-8		1/2" M/M face seal			84mm (3.31")
TEM-37450	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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