

# 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 3nm particle retention where low pressure drop is required and space limited.

Nickel media enclosed in a 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.

### Specifications

- **Filtration rating**  
Efficient 3 nm particle retention.
- **Maximum operating temperature**  
200°C (392°F) in inert gas.
- **Maximum operating pressure**  
3700, 3740, 3370 series:  
206.8 bar (3,000 psig) at 20°C (68°F).

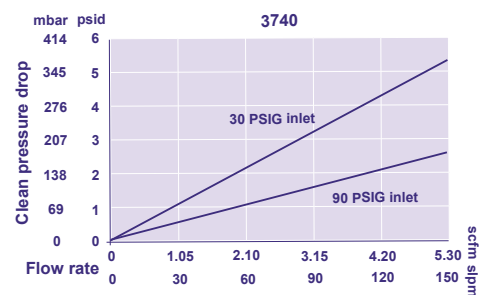
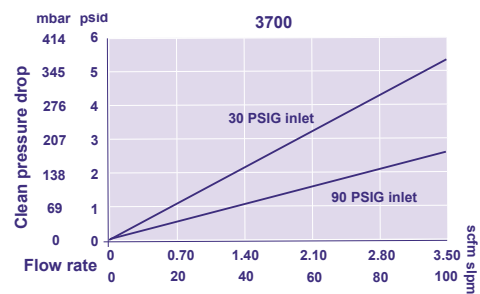
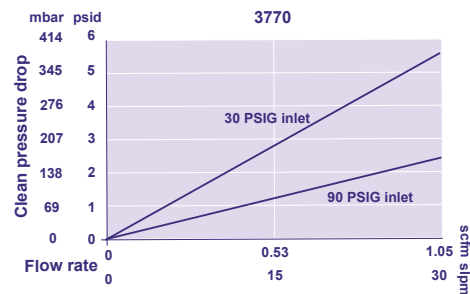
### Features and benefits

- **Electro-polished housing**  
The filter assemblies have a 15Ra electro-polished 316L stainless steel housing to prevent corrosion and particle build-up on interior surfaces.
- **Out of package cleanliness**  
Our GasPro™ TEM-3700 filters are cleaned and packaged in a cleanroom with organic free handling for out-of-package, particle free, and chemical free cleanliness. Final assembly is purged with filtered nitrogen for initial cleanliness. Additional preconditioning is optional.
- **Construction**  
Sintered nickel fiber media enclosed in a 316L stainless steel housing.
- **100% helium leak tested**  
All units tested to  $1 \times 10^{-9}$  atm cc/second.

### Applications

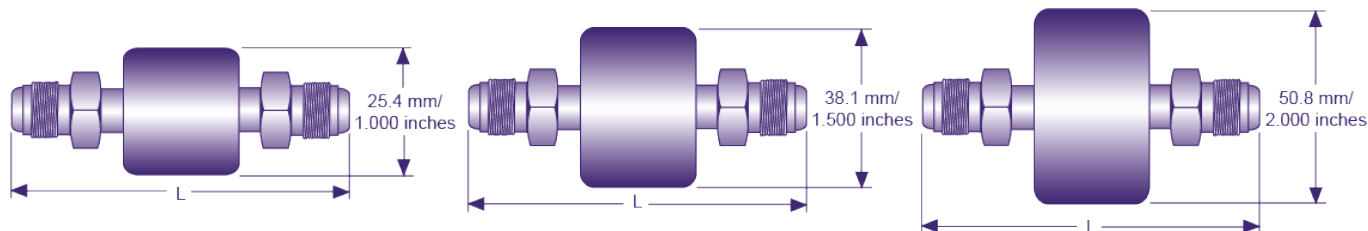
- Gas cabinet and stick specialty gas filtration.
- Gas panel point-of-use process gas filtration.

### Gas flow rate / Pressure drop (3770 / 3700 / 3740)



## Specifications

### 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	1/4" compression	Nickel media 316L housing	25.4 mm / 1.00"	73 mm (2.88")
TEM-3772		1/4" M/F face seal			84 mm (3.31")
TEM-3773		1/4" F/M face seal			84 mm (3.31")
TEM-3774		1/4" F/F face seal			84 mm (3.31")
TEM-3775		1/4" M/M face seal			84 mm (3.31")
TEM-37750		1/4" butt weld			44.5 mm (1.75")
TEM-3711	100 slpm	1/4" compression	Nickel media 316L housing	38.1 mm / 1.50"	73 mm (2.88")
TEM-3712		1/4" M/F face seal			84 mm (3.31")
TEM-3713		1/4" F/M face seal			84 mm (3.31")
TEM-3714		1/4" F/F face seal			84 mm (3.31")
TEM-3715		1/4" M/M face seal			84 mm (3.31")
TEM-3715-8		1/2" M/M face seal			86.4 mm (3.4")
TEM-3750	1/4" butt weld	50.8 mm (2.00")			
TEM-3741	150 slpm	1/4" compression	Nickel media 316L housing	50.8mm / 2.00"	73 mm (2.88")
TEM-3742		1/4" M/F face seal			84 mm (3.31")
TEM-3743		1/4" F/M face seal			84 mm (3.31")
TEM-3744		1/4" F/F face seal			84 mm (3.31")
TEM-3745		1/4" M/M face seal			84 mm (3.31")
TEM-3745-8		1/2" M/M face seal			84 mm (3.31")
TEM-37450	1/4" butt weld	44.5 mm (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.