

# GasPro™

## TEM-1800

High Purity All-Fluoropolymer  
In-Line Filter



**GasPro™ TEM-1800 Series filters are designed for 3 nm particle retention up to flow rates of 10 scfm and temperatures of 121°C (250°F).**

A PTFE membrane and all-fluoropolymer support structure is enclosed in a 316L stainless steel electro-polished welded housing. Final assembly is purged with filtered nitrogen for initial cleanliness.

### Applications

- Point-of-use filtration of process specialty gases.
- Low pressure to vacuum delivery of silicon precursors via vapour or inert carrier gas.

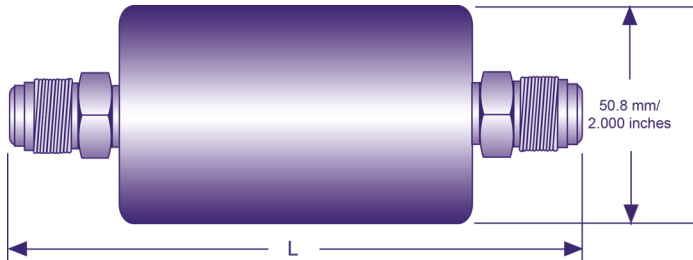
### Specifications

- **Filtration rating**  
Our porous PTFE filters provide efficient 3 nm particle retention.
- **Maximum operating temperature**  
121°C (250°F) in inert gas.
- **Maximum operating pressure**  
51.6 bar (750 psig) at 20°C (68°F).

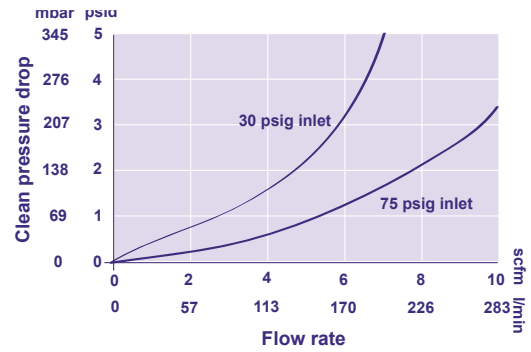
### Features and Benefits

- **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-1800 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.
- **100% helium leak tested**  
All units tested to 1x10<sup>-9</sup> atm cc/second.

## Specifications



Gas flow rate / Pressure drop



## TEM-1800 Part Numbers and Ordering Information

| Part number | Inlet/outlet fittings                   | Filter media / housing      | Other materials                          | Length (L)        |
|-------------|---|-----------------------------|--|-------------------|
| TEM-1811    | 1/4" compression inlet/outlet           | PTFE / 316L stainless steel | All fluoropolymer / FEP encapsulated FKM | 141.9 mm (5.585") |
| TEM-1811-6  | 3/8" compression inlet/outlet           |                             |  | 116.5 mm (4.585") |
| TEM-1811-8  | 1/2" compression inlet/outlet           |                             |  | 143.9 mm (5.665") |
| TEM-1812-P  | 1/4" male face seal inlet/female outlet |                             |  | 141.2 mm (5.561") |
| TEM-1815-6  | 3/8" male face seal inlet/outlet        |                             |  | 132.6 mm (5.22")  |
| TEM-1850-6  | 3/8" butt weld inlet/outlet             |                             |  | 143.9 mm (5.665") |
| TEM-1850-8  | 1/2" butt weld inlet/outlet             |                             |  | 143.9 mm (5.665") |

\* 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.