

# GasPro™

## TEM-1790

Ultra-High Purity All-316L  
In-Line Filter



GasPro™ TEM-1790 Series filters are designed for 3 nm particle retention up to flow rates of 700 slpm and temperatures of 200°C (392°F).

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

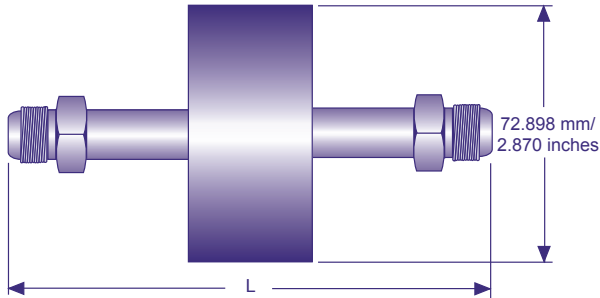
### Specifications

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

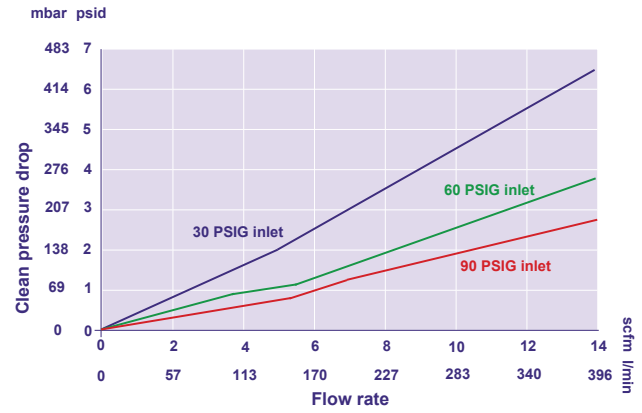
### Features and benefits

- **Construction**  
All 316L stainless steel sintered fibre media and hardware.
- **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-1790 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  $1 \times 10^{-9}$  atm cc/second.

Specifications



Gas flow rate vs Pressure drop



TEM -1790 Part Numbers and Ordering Information

Part number	Inlet/outlet fittings	Filter media/housing	Length (L)
TEM-1791-8	1/2" compression inlet/outlet	All 316L	3.0" (76.2 mm)
TEM-1790-8BW	1/2" butt weld		5.0" (127 mm)
TEM-1793-8L	1/2" female face seal inlet, 1/2" male face seal outlet		4.5" (114.3 mm)
TEM-1795	1/4" M/M face seal		4.0" (101.6 mm)
TEM-1795-6	3/8" M/M face seal		3.85" (97.8 mm)
TEM-1795-8	1/2" male face seal inlet/outlet		3.6" (91.4 mm)
TEM-1795-8MO	1/2" male face seal inlet/outlet		5.0" (127 mm)
TEM-1795-8P	1/2" male face seal inlet/outlet		6.06" (153.9 mm)

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.