

# GasPro™ TEM-3790

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



GasPro™ TEM-3790 Series sintered nickel media filters are designed for filtration of UHP semiconductor gases where a compact, all-metal, corrosion tolerant design is required. This all-welded assembly will deliver 3 nm particle retention, where a high flow rate and low pressure drop is required and where space is limited. Standard semiconductor industry fittings are offered for easy installation.

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

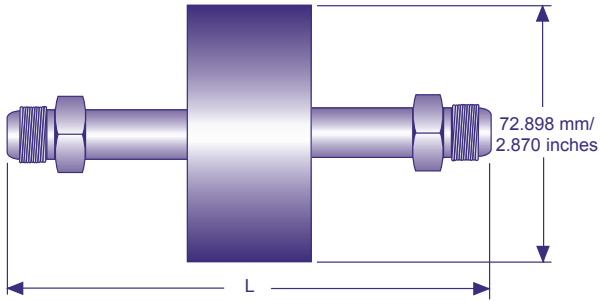
## Specifications

- **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).

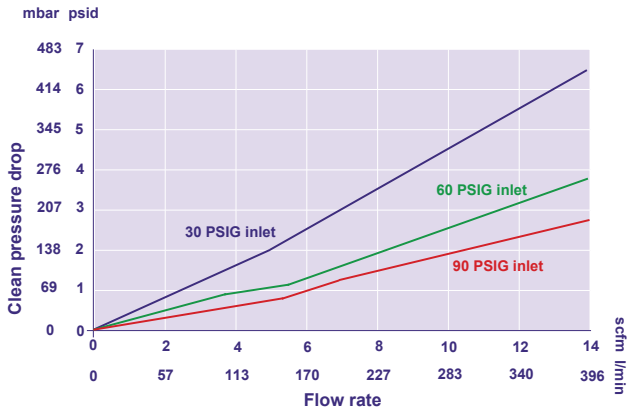
## Features

- **Construction**  
Sintered Nickel fiber media enclosed in a 316L stainless steel housing.
- **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-3790 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.
- **Multiple fitting options for ease of installation**  
Standard fitting options include face/gasket seal, compression, butt weld and NPT. Special fittings, including tri-clamp (clover) sanitary and flange type, may be available upon request.
- **100% helium leak tested**  
All units are tested to  $1 \times 10^{-9}$  atm cc/second.

## Specifications



### Gas flow rate vs Pressure drop



### TEM -3790 Part Numbers and Ordering Information

Part number	Inlet/outlet fittings	Filter media/housing	Length (L)
TEM-3791-8	1/2" compression inlet/outlet	Nickel Media 316L Housing	3.0" (76.2 mm)
TEM-3790-8BW	1/2" butt weld		5.0" (127 mm)
TEM-3793-8L	1/2" female face seal inlet, 1/2" male face seal outlet		4.5" (114.3 mm)
TEM-3795	1/4" male/male face seal		4.0" (101.6 mm)
TEM-3795-6	3/8" male/male face seal		3.85" (97.8 mm)
TEM-3795-8	1/2" male face seal inlet/outlet		3.6" (91.4 mm)
TEM-3795-8MO	1/2" male face seal inlet/outlet		5.0" (127 mm)
TEM-3795-8P	1/2" male face seal inlet/outlet		6.06" (153.9 mm)
TEM-3795-12	3/4" male face seal inlet/outlet		4.80" (121.9 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.