

GasPro™ TEM-1790

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

GasPro™ TEM-1790 Series filters are specifically designed for higher flow filtration of UHP semiconductor gases when an all-metal design is required. This all-welded assembly will deliver 0.003 micron particle retention where a good flow rate and low pressure drop is required and space is limited. Standard semiconductor industry fittings are offered for easy installation.

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

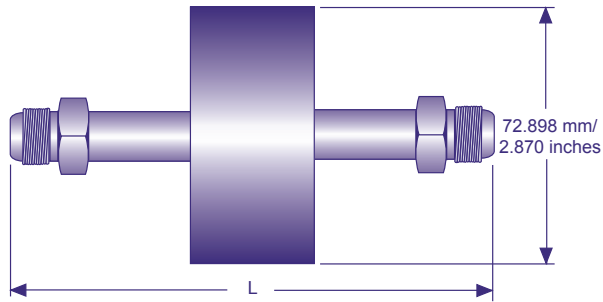


Specifications

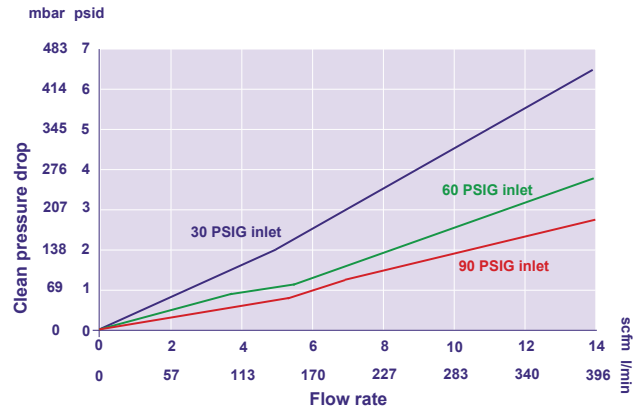
- **3nm filter rating**
Efficient particle retention efficiency at 0.003 μ m
- **Maximum operating temperature**
200°C (392°F) in inert gas.
- **Maximum operating pressure**
206.8 bar (3,000 psig) at 20°C (68°F).

Features

- **All welded sintered 316L media-stainless hardware**
Excellent bake-out characteristics for fast dry-down and in-line qualification.
- **Electro-polished 316L housing**
The filter assemblies have a 10Ra electro-polished 316L stainless steel housing to prevent corrosion and particle formation.
- **Cleanroom manufactured**
Our GasPro™ TEM-1790 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 leak tested to greater than 1x10⁻⁹ atm cc/second**



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" (76.2mm)
TEM-1790-8BW	1/2" butt weld		5.0" (127mm)
TEM-1793-8L	1/2" female face seal inlet, 1/2" male face seal outlet		4.5" (114.3mm)
TEM-1795	1/4" M/M face seal		4.0" (101.6mm)
TEM-1795-6	3/8" M/M face seal		3.85" (97.8mm)
TEM-1795-8	1/2" male face seal inlet/outlet		3.6" (91.4mm)
TEM-1795-8MO	1/2" male face seal inlet/outlet		5.0" (127mm)
TEM-1795-8P	1/2" male face seal inlet/outlet		6.06" (153.9mm)

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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