

# GasPro™ TEM-700

## High-Temperature Glass Fiber- 316L In-Line Filter

GasPro™ TEM-700 Series filters are specifically designed for filtration of reactive and halogenated microelectronics gases. This all-welded assembly will deliver highly efficient 0.01 micron filtration where a high flow rate and low delta P is required and space is limited. A variety of fitting types is offered for easy installation. The unbindered glass fiber depth media is supported by a 316L fiber mesh enclosed in a 316L stainless steel electro-polished welded housing has 10-20 times the dirt holding capacity of similar size membrane filters.

Final assembly is purged with filtrated nitrogen for initial cleanliness. GasPro™ TEM-700 is also suited for high temperature applications to 400C/ 750F.



### Features and Benefits

- **0.01 micron Filter Rating**  
Up to 99.9999% retention efficiency at  $\geq 0.01$  microns
- **High Flow**  
See performance chart for GasPro™ TEM-700
- **PTFE Media / Polypropylene / Viton construction**  
0.11 m<sup>2</sup> (1.2 ft<sup>2</sup>) PTFE filter media provides excellent flow and chemical resistance.
- **100% Glass Microfiber supported by 316L SS Mesh**
- **Electro-polished 316L housing**  
The filter assemblies have a 10Ra electro-polished 316L stainless steel housing to prevent corrosion and particle formation.
- **Temperature and Pressure**  
Operating pressure rating of 17.2 bar (250 psig) at 121°C (250°F) .  
Maximum temperature rating of 400°C (750°F) .
- **Cleanroom manufactured**  
Our GasPro™ TEM-700 filters are manufactured in a cleanroom to insure particle free, chemically clean, and organic-free handling and bagging to provide high out-of-package cleanliness. Additional preconditioning is optional.
- **100% helium tested to greater than 1x10<sup>-9</sup> atm cc/second.**

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# Specifications

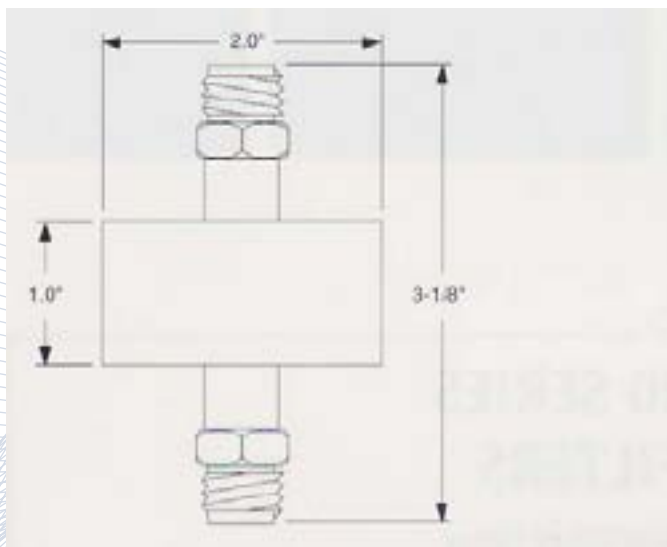
## Part Numbers / Ordering Information

Part Number	Inlet / Outlet Fittings	Filter Media / Housing	Length (L)
TEM-711	1/4" compression inlet/outlet	Glass fiber / 316L Stainless Steel	3.125" (79.4mm)
TEM-711-6	3/8" compression inlet/outlet		3.125" (79.4mm)
TEM-711-8	1/2" compression inlet/outlet		3.125" (79.4mm)
TEM-713	1/4" female-male face seal		3.125" (79.4mm)
TEM-714	1/4" female face seal inlet/outlet		3.125" (79.4mm)
TEM-715	1/4" male face seal inlet/outlet		3.125" (79.4mm)
TEM-723	1/4" female-male VCO*		3.125" (79.4mm)
TEM-724	1/4" female-female VCO*		3.125" (79.4mm)
TEM-725*	1/4" Male-male VCO*		3.125" (79.4mm)

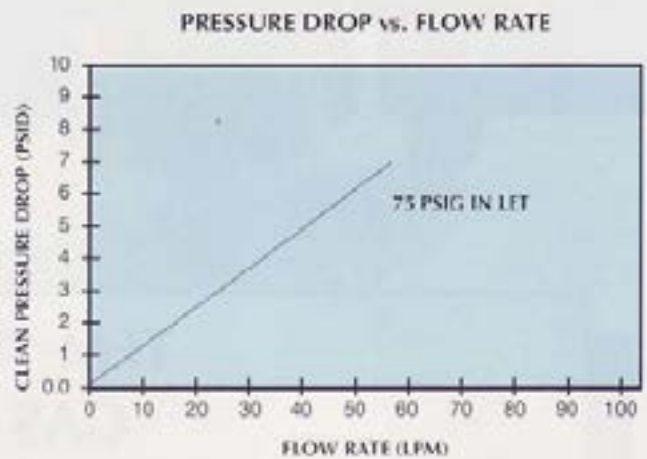
\* FEP encapsulated FKM O-rings are available upon request.

\* Not all fittings, lengths, and part numbers are shown on the chart. Please contact your Porvair or an approved Porvair distributor for special length and fitting options.

## Dimensions



## Gas Flow Rate / Pressure Drop



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filtration group

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