

# GasPro™ TEM-1300

## Ultra-High Flow All Fluoropolymer- 316L In-Line Filter

GasPro™ TEM-1300 Series filters are specifically designed for filtration of UHP semiconductor gases when flow rates to 3,540 lpm (125 scfm) are required. This all-welded assembly will deliver 0.003 micron particle retention where a high flow rate is required and space is limited. A variety of fitting types is offered for easy installation.

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



### Features and Benefits

- **3nm Filter Rating**  
Our porous PTFE filters provide efficient particle retention efficiency at  $\geq 0.003\mu\text{m}$
- **High Flow**  
GasPro™ TEM -1300 is rated to 3,540 lpm (125 scfm)
- **PTFE Media / All fluoropolymer Support Structure**  
0.65 m<sup>2</sup>(7 ft<sup>2</sup>) PTFE filter media provides excellent flow and chemical resistance.
- **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 temperature rating of 150°C (302°F) and Operating pressure rating of 17.2 bar (250 psig)
- **Cleanroom manufactured**  
Our GasPro™ TEM-1300 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      | Other Material*                            | Length(L)       |
|-------------|------------------------------------|-----------------------------|--|-----------------|
| TEM-1311-8  | 0.5" compression inlet/outlet      | PTFE / 316L Stainless Steel | All Fluoropolymer / FEP encapsulated Viton | 13.95" (354mm)  |
| TEM-1311-16 | 1.0" compression inlet/outlet      |                             |  | 15.0" (381mm)   |
| TEM-1311-24 | 1.5" compression inlet/outlet      |                             |  | consult factory |
| TEM-1315-16 | 1.0" male gasket seal inlet/outlet |                             |  | 15.79" (401mm)  |
| TEM-1315-24 | 1.5" male gasket seal inlet/outlet |                             |  | 15.79" (401mm)  |
| TEM-1350-16 | 1.5" tube stub nlet/outlet         |                             |  | consult factory |
| TEM-1311-8  | 0.5" compression inlet/outlet      |                             |  | 15.19" (386mm)  |

\* 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 representative or an approved Porvair distributor for special length and fitting options.

## Dimensions

## Gas Flow Rate / Pressure Drop



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