porvair filtration group

GasPro™ TEM PV1-1400

316L-Polypropylene Media 1 Micron In-Line Gas Filter

GasPro™ PV1-1400 series filters are designed for photovoltaic/solar and other microelectronic gas applications where 1 µm particle retention is acceptable. Standard industry fittings are offered for easy installation.

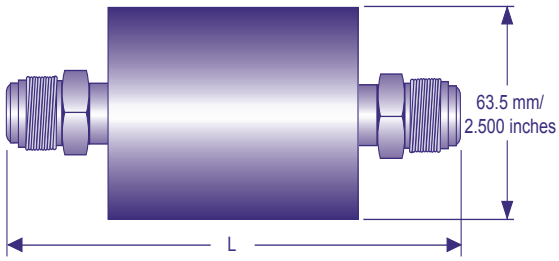
Specifications

- **Filtration Rating**
  Efficient particle retention at 1.0 µm
- **Maximum operating temperature**
  80°C (176°F) in inert gas
- **Maximum operating pressure**
  17.2 bar (250 psig) at 20°C (68°F)

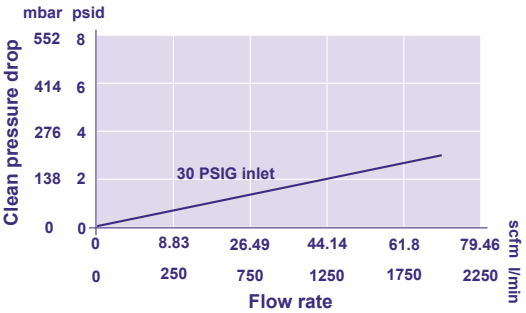
Features

- **Electro-polished housing**
  The filter assemblies have a <10Ra electro-polished 316L stainless steel housing to prevent corrosion and particle build up on interior surfaces.
- **Out of package cleanliness**
  Our GasPro™ PV1-1400 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 $1x10^{-9}$ atm cc/second.
- **Construction**
  Polypropylene filtration media encolsed in a 316L stainless teel housing.

Specifications



Gas flow rate vs Pressure drop



PV1-1400 Part Numbers and Ordering Information

Part number	Inlet/outlet fittings	Filter media/ hardware	Length (L)
PV1-1411-12	3/4" compression inlet/outlet	Polypropylene / 316L	6.14" (156 mm)
PV1-1415-8	1/2" face seal inlet/ outlet		6.14" (156 mm)
PV1-1415-12	3/4" face seal inlet/ outlet		6.50" (165.1 mm)
PV1-1415-16	1" face seal inlet/ outlet		6.50" (165.1 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.