



VPG-A3 In-line Process Gas Filter

Model 2920-01-5001



High efficiency filtration down to 2nm and up to 100 SLPM

The VPG-A3 Vapor Process Gas filter is an ultra-low pressure drop, highly-efficient in-line filter designed for vapor and process gas filtration. This patent-protected 316L SS filter, is chemically- and thermally-resistant and can be used up to 100 SLPM. The extremely low pressure drop of this filter makes it easier to work in ultra-low pressure environments and reduces the risk of gas phase reactions occurring in the filter.

Conventional high-purity, point-of-use gas filters are used in a compressed gas line for particle removal. The VPG-A3 filter is also used downstream of a vaporizer under vacuum flow conditions to prevent particles, which could potentially be in the gas/vapor mixture, from entering the Chemical Vapor Deposition (CVD) or Atomic Layer Deposition (ALD) process chamber. The VPG-A3 filter is made from 316L SS sintered powder media and has a large surface area, giving the filter a long lifetime.

Applications

- Vapor process gas
- Ultra-high purity gas
- High temperature
- Inert or reactive gases
- High and ultra-high vacuum
- Semiconductor manufacturing

Features & Benefits

- 316 Stainless Steel
- Large surface area – long life
- Use up to 100 SLPM
- High particle removal efficiency
- Ultra-low pressure drop
- ½" VCR fittings

Specifications

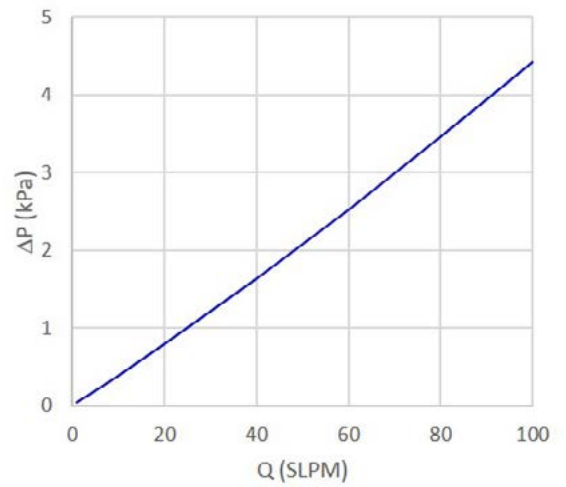
VPG-A3 In-line Process Gas Filter

| Specifications | | |
|-----------------------------------|---------------------------------|-------------------------------|
| Efficiency* @ 1 SLPM | 2.5nm | 99.999999999999% (twelve 9's) |
| | 10 nm | 99.999999999999% (twelve 9's) |
| | 50 nm | 99.9999999% (seven 9's) |
| Filter Media | Sintered 316L SS Powder | |
| Wetted Materials | Stainless Steel 316L | |
| Temperature Range (°C) | <400 (inert gases) | |
| Max. Operating Pressure (psig) | 2500 | |
| Max. Differential Pressure (psid) | 500 | |
| Flow Rate Range (SLPM) | 0-100 | |
| Weight (kg/lb) | 0.45/1 | |
| Fittings** | ½" male VCR with 7/8"-14 thread | |

*Filtration efficiency at atmospheric pressure

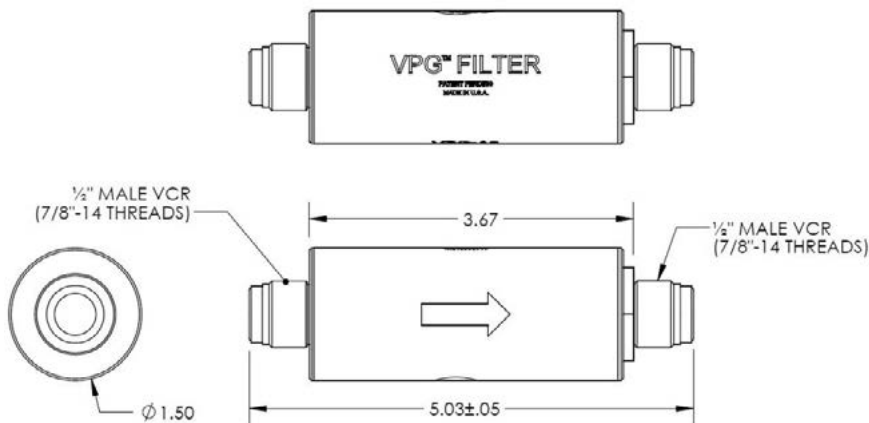
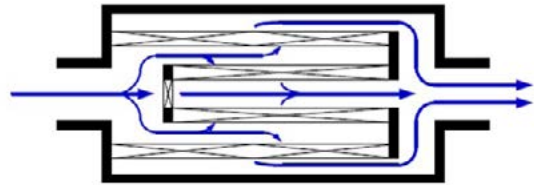
**Alternative fitting options available by request

VPG-A3 Pressure Drop vs Flow Rate



Patent-protected Design

Cross-flow construction provides highly efficient filtration with ultra-low pressure drop. 316L SS sintered powder media provides large surface area for long filter lifetimes.



The MSP logo is a trademark of TSI Incorporated in the United States and may be protected under other country's trademark registrations.



MSP - Visit our website www.tsi.com/msp for more information.

5910 Rice Creek Parkway, Suite 300
Shoreview, Minnesota
55126, U.S.A.
Tel: 651.287.8100