

VPG-A6 In-line Process Gas Filter

Ultra-high efficiency filtration down to 2nm and below

Conventional high-purity, point-of-use gas filters are used in a compressed gas line for particle removal. The VPG-A6 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. Due to its unique design, the VPG-A6 filter has more thermal mass than competitive offerings, making it particularly well suited for use downstream of a vaporizer in a heated line – acting as almost a second stage heat exchanger.

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
- Ultra-high particle removal efficiency

VPG[™] FILTER

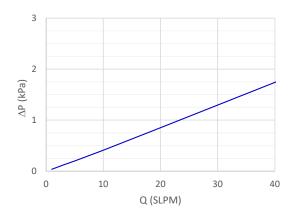
- Ultra-low pressure drop
- High particle removal efficiency
- Solid core more thermal mass
- 1/2" VCR fittings

VPG-A6 In-line Process Gas Filter



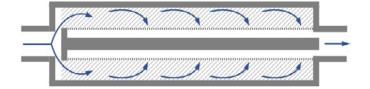
Specifications		
Efficiency* @ 1 SLPM	2.5nm 10 nm 50 nm	99.9999999% (ten 9s)
Filter Media	Sintered 316L SS Powder	
Wetted Materials	Stainless Steel 316L	
Temperature Range (°C)	<400 (inert gases)	
Max. Operating Pressure (psig)	2500	
Max. Differential Pressure (psid)	500	
Flow Rate Range (SLPM)	0-30	
Weight (kg/lb)	0.45/1	
Fittings**	1/2" male VCR with 7/8-14 thread	
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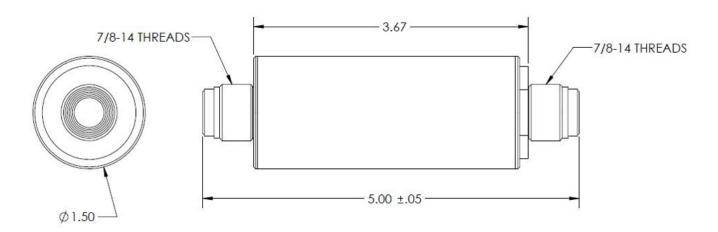
VPG-A6 Pressure Drop vs Flow Rate



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.





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P/N 5002465 Rev C ©2024 TSI Incorporated Printed in U.S.A. 6978877259

^{*}Filtration efficiency at atmospheric pressure **Alternative fitting options available by request