

GasPro™ Ultra

1.5nm, LRV9
UHP Gas Filters



GasPro™ Ultra is a range of ultra-high-purity gas filters for use throughout the microelectronics and semiconductor industries.

GasPro™ Ultra ensures 9 LRV (log reduction value) of particles down to 0.0015µm.

Applications

- UHP gas sticks for semiconductor, LED, Photovoltaic
- UHP filtration in valve manifold boxes, gas cabinets
- Ultra high-purity particle removal

Features and Benefits

- **Ultra High Purity**
9 LRV (log reduction value) of particles down to 0.0015µm.
- **Electro-polished housing**
The filter assemblies have a 5Ra electro-polished 316L stainless steel housing to prevent corrosion and particle build-up on interior surfaces.
- **Out of package cleanliness**
Our GasPro™ Ultra 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.
- **100% helium leak tested**
All units tested to 1×10^{-9} atm cc/second.

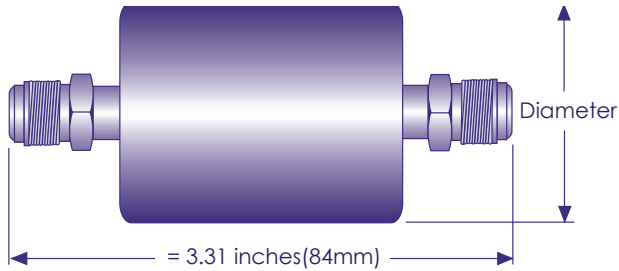
Specifications

Particle Removal Size	≥ 0.0015 µm
Filter Efficiency (Log Reduction Value)	9 LRV (99.9999999% reduction in particles). Confirmed at the most penetrating particle size of 0.08 µm per SEMI F38-0699 test method
Helium Leak Rating	1 x 10 ⁻⁹ atm cc/sec
Materials of Construction Housing	Stainless Steel 316L
Internal Wetted Surface Finish	5Ra µin
Moisture Contribution	Below acceptable limits per SEMASPEC 90120396-STD test method
Total Hydrocarbons	Below acceptable limits per SEMASPEC 90120397-STD test method

Operating Conditions

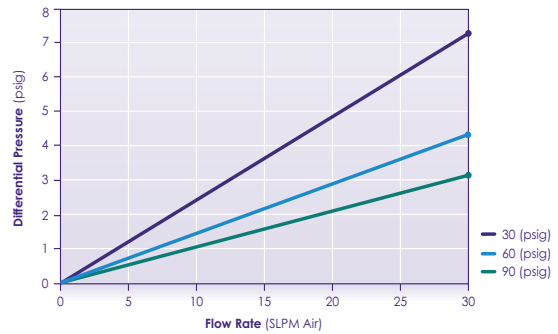
Maximum Operating Pressure	206.8 barg (3000 psig)
Maximum Operating Temperature	450 °c
Maximum Differential Pressure	68.9 barg (1000psid)

Specifications



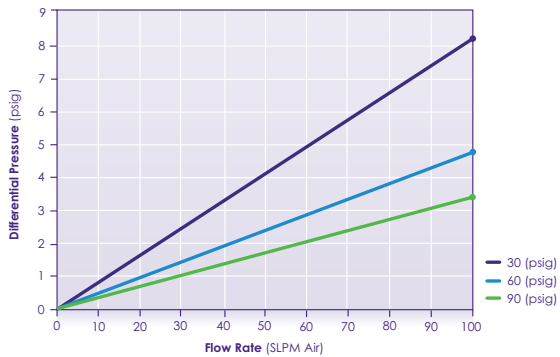
Typical Gas flow rate vs Pressure drop characteristics

Part Number: GPU-SF-030-FS-4



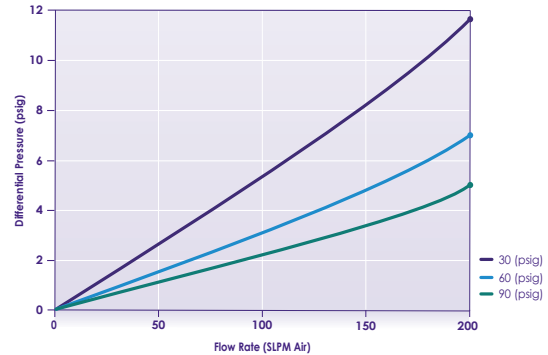
Typical Gas flow rate vs Pressure drop characteristics

Part Number: GPU-SF-100-FS-4



Typical Gas flow rate vs Pressure drop characteristics

Part Number: GPU-SF-200-FS-4



Part Numbers and Ordering Information

Product Code: 1 2 3 4 5

1: Series		2: Media		3: Nominal Flow Rate (slpm)		4: End Connection		5: Connection Size	
GPU	GasPro™ Ultra	SF	Stainless Fiber	030	30	FS	Male Face Seal	4	1/4"
				100	100			8	1/2"
				200	200	BW	Butt Weld		

Flow Rate vs Diameter

Flow Rate	Diameter
030	1"
100	1.5"
200	2"

Example part configuration:

Part No.	Specifications
GPU-SF-030-FS-4	30 slpm, 1/4" male thread face seal fitting, Stainless fiber filter media

PF908/ Rev4/May26