

# 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. Additional preconditioning is optional.
- **100% helium leak tested**  
All units tested to  $1 \times 10^{-9}$  atm cc/second.

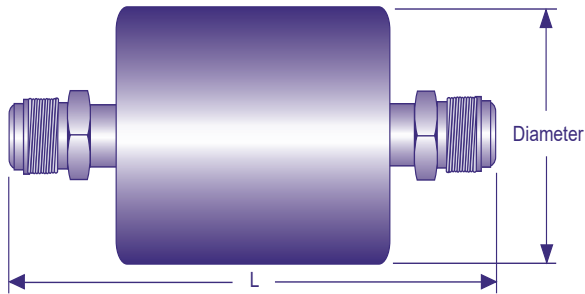
### Specifications

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 <sup>-9</sup> atm cc/sec
Moisture Contribution	<10 ppb after 1 hour at low-flow ambient purge per SEMI F27 test method
Total Hydrocarbons	Below detectable limits per SEMASPEC 90120396B test method
Particle Shedding	Zero particle contribution above background (<1 particle/ft <sup>3</sup> ) per SEMI F43-0308 test method
Materials of Construction Housing	Stainless Steel 316L
Internal Wetted Surface Finish	5Ra

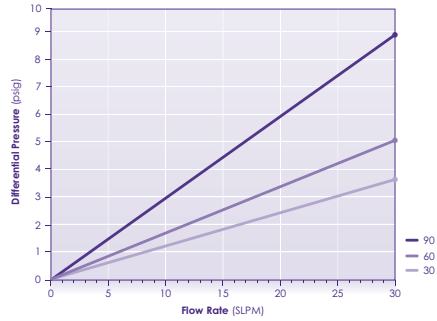
### Operating Conditions

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

Specifications



Gas flow rate vs Pressure drop



Part Numbers and Ordering Information

Product Code: 1 2 3 4 5 6 7

1: Series		2: Media		3: Nominal Flow Rate (slpm)		4: End Connection		5: Connection Size		6: Options	
GPU	GasPro™ Ultra	H	Hastelloy	03	30	FS	Male Face Seal	4	1/4"	D	Dry
		NF	Nickel Fiber	1	100	FSF	Female Face Seal	8	3/8"	O2	O2 cleaning procedure
		P	Polypropylene	2	200	C	Compression	64	1/4" High Flow Face Seal	IS	Inlet Screen
		SF	Stainless Fiber	3	300	MP	Male NPT	8	1/2"	EP	Electropolish
		SP	Stainless Porous	7	700	FP	Female NPT	12	3/4"	<b>7: Specials</b>	
		T	Fluoropolymer			BW	Butt Weld	16	1.0"	Contact the Sales Team for Special Requirements	
								24	1.5"		
								32	2.0"		