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Entegris

WAFERGARD® II F-6 IN-LINE GAS FILTERS

Superior particulate filtration for ultrapure gas system filtration

Overview

Wafergard® II F-6 in-line gas filters are the filters of choice for ultrapure gas system filtration. These filters have excellent compatibility with all classes of semiconductor gases and offer high-efficiency filtration with optimal flow differential performance.



Applications

- Bulkheads
- Facility chases
- Valve manifold boxes

Features and Benefits

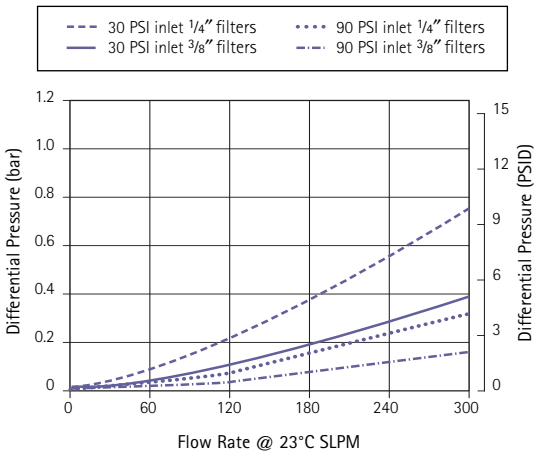
- Greater than 99.9999999% removal of all particles larger than 0.003 µm diameter
- 316L stainless steel shell with 0.25 µm Ra (10 µin Ra) electropolished interior finish
- Cleanroom manufactured, welded and tested
- Low pressure drop reduces risk of low vapor pressure gas condensation
- Cleanroom packaged by vacuum baking and double bagging for superior cleanliness

Specifications

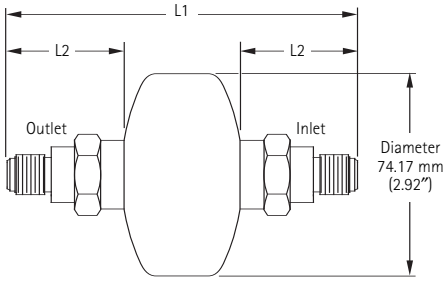
Materials:	Filter element	Hydrophobic Teflon® PTFE membrane supported by molded Halar® ECTFE stacked disc supports with a direct housing seal
	Housing	Electropolished 316L stainless steel housing
Downstream cleanliness:	Less than 0.03 particles/liter (<1 particle/ft^3) greater than 0.01 µm*	
Removal rating:	≥0.003 µm	
Surface finish interior:	≤10 µin Ra	
Helium leak rating:	Qualified	2×10^{-10} cc/min.
	Tested	1×10^{-9} cc/min.
Operating conditions:	Maximum inlet pressure	40 bar (600 PSIG) at 23°C
	Maximum forward differential pressure	4 bar (60 PSID) at 23°C
	Maximum reverse differential pressure	0.7 bar (10 PSID) at 23°C
	Maximum operating temperature	120°C (248°F)
Particle retention:	Greater than 99.9999999% (9 LRV) removal of all particles @ 300 SLPM (referenced at the most penetrating particle size)	
Flow rating:	Refer to flow curve	

*Verified at 30 SLPM

Performance Data



Dimensions



Ordering Information

Part Number	Fitting Options	L1 Overall Length	L2 Fitting to Housing Length
WG2F 06 WR1	1/4" gasket seal (compatible with VCR® fitting) male inlet/outlet	127.0 mm (5.00")	42.4 mm (1.67")
WG2F 06 WS1	1/4" compression seal (compatible with Swagelok® fitting)	112.8 mm (4.44")	353 mm (1.39")
WG2F 36 WR1	3/8" gasket seal (compatible with VCR® fitting) male inlet/outlet	127.0 mm (5.00")	42.4 mm (1.67")
WG2F 36 WS1	3/8" compression seal (Swagelok® compatible)	117.9 mm (4.64")	3.79 mm (1.49")

For More Information

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