

WAFERGARD® II F-40 IN-LINE GAS FILTERS

Superior particulate filtration for ultrapure gas system filtration

Overview

Wafergard® II F-40 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.

Features and Benefits

- Greater than 99.999999% 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 bagging and double-bagging for superior out-of-box cleanliness
- Teflon® PTFE membranes provide high-efficiency filtration



Applications

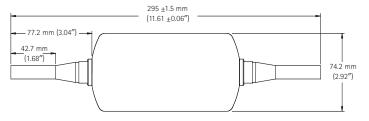
- Facility entrances
- Bulkheads
- · Facility chases

Specifications

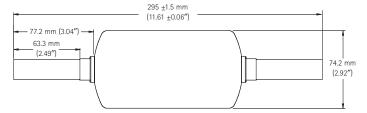
Materials:	Filter element	r element Hydrophobic Teflon® PTFE membrane supported by molded Hala ECTFE stacked disc supports with a direct housing seal	
	Housing	Electropolished 316L stainless steel housing	
Downstream cleanliness:	Volatiles	<10 ppb moisture @ ≥5% of rated flow	
Removal rating:	≥0.003 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	18 bar (250 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 99.999999% (9 LRV) removal of all particles @ 1500 SLPM (referenced at the most penetrating particle size)		
Flow rating:	See performance data		

Dimensions

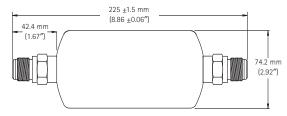
1/2" Butt Tube WG2F 40 JJ4



3/4" Butt Tube WG2F 40 JJ6



3/8" Male Gasket Seal WG2F 40 RR3



Ordering Information

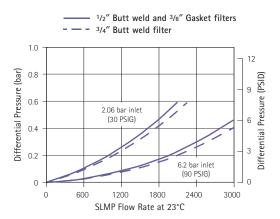
Part Number	Fitting Options	Overall Length
WG2F 40 JJ4	Wafergard® II F-40 in-line filter, 1/2" butt weld tube	295.0 mm (11.6")
WG2F 40 JJ6	Wafergard® II F-40 in-line filter, 3/4" butt weld tube	295.0 mm (11.6")
WG2F 40 RR3	Wafergard® II F-40 in-line filter, 3/8" gasket seal (compatible with VCR® fitting), male inlet/outlet	225.0 mm (8.86")

For More Information

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit www.entegris.com and select "Regional Customer Service Centers" for the center nearest you.

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Performance Data



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