



**WAFERGARD® II F MINI XL
IN-LINE GAS FILTERS**

*Superior particulate filtration for
ultrapure gas system filtration*



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Overview

Wafergard® II F Mini XL in-line gas filters are the filters of choice for ultrapure gas system filtration. Recommended for filtering inert and reactive gases, these filters offer excellent compatibility with all classes of semiconductor process gases. Use them in gas panels and gas cabinets where ultrapure gas is required for wafer processing.

- Cleanroom manufactured and 100% tested for high reliability
- PTFE membranes provide high-efficiency filtration

Features and Benefits

- Compact unit reduces overall gas box footprint
- Low pressure drop reduces risk of condensation in low-vapor pressure gases

Applications

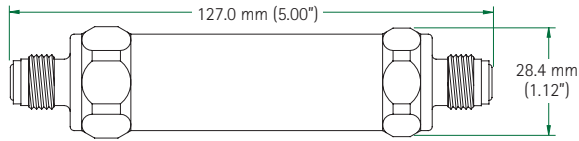
- Ozone applications (gas)
- Gas cabinets
- Ultrapure gas systems
- Valve manifold boxes
- Gas panels

Specifications

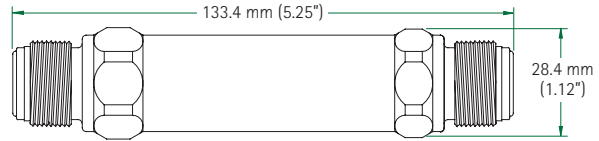
Materials:	Filter element	Hydrophobic PTFE membrane supported by molded Teflon® PFA structure
	Housing	Electropolished 316L stainless steel
Downstream cleanliness:	Particles	<0.03 particles/liter (<1 particle/ft ³) >0.01 µm
	Volatiles	<10 ppb moisture
Removal rating:	0.003 µm	
Surface finish interior:	<10 µin Ra	
Helium leak rating:	Qualified	2 × 10 ⁻¹⁰ atm/cc-sec
	Tested	1 × 10 ⁻⁹ atm/cc-sec
Operating conditions:	Maximum inlet pressure	20.7 MPa (207 bar; 3000 PSIG) @ 23°C
	Maximum forward differential pressure	0.4 MPa (4 bar; 60 PSID) @ 23°C
	Maximum reverse differential pressure	0.07 MPa (0.7 bar; 10 PSID) @ 23°C
	Maximum operating temperature	120°C (248°F)
Particle retention:	Greater than 99.9999999% (9 LRV) removal of all particles @ 100 SLPM (referenced at the most penetrating particle size)	
Flow rating:	Refer to performance data	

Dimensions

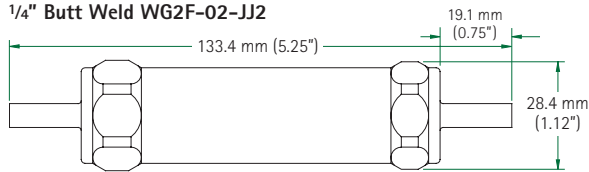
1/4" Gasket Seal WG2F-02-RR2



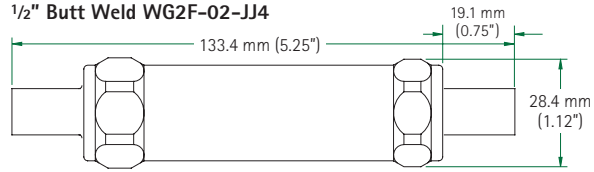
1/2" Gasket Seal WG2F-02-RR4



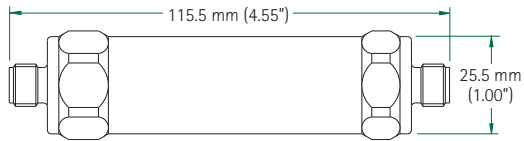
1/4" Butt Weld WG2F-02-JJ2



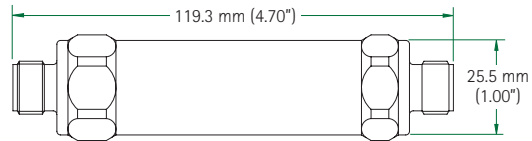
1/2" Butt Weld WG2F-02-JJ4



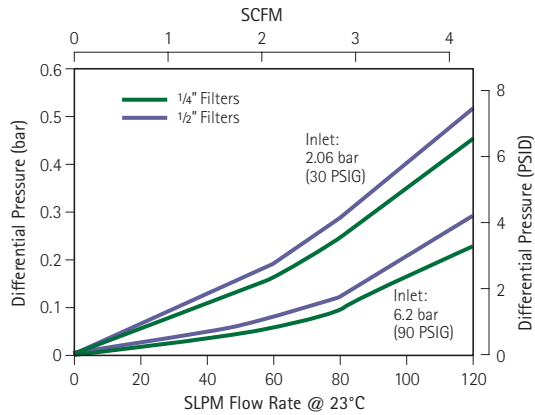
1/4" Compression Seal (Swagelok® compatible) WG2F-02-PS1



3/8" Compression Seal (Swagelok compatible) WG2F-32-PS1



Performance Data



Ordering Information

Part No.	Fitting Options	Overall Length
WG2F 02 RR2	1/4" Gasket seal (compatible with VCR® fitting) male inlet/outlet	127.0 mm (5.00")
WG2F 02 RR4	1/2" Gasket seal (compatible with VCR fitting) male inlet/outlet	133.4 mm (5.25")
WG2F 02 JJ2	1/4" Butt weld tube	133.4 mm (5.25")
WG2F 02 JJ4	1/2" Butt weld tube	133.4 mm (5.25")
WG2F 02 PS1	1/4" Compression seal (compatible with Swagelok fitting) male inlet/outlet	115.5 mm (4.55")
WG2F 32 PS1	3/8" Compression seal (compatible with Swagelok fitting) male inlet/outlet	119.3 mm (4.70")

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 the "Customer Service" link for the center nearest you.

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