

# Wafergard® II F Mini XL In-Line Gas Filters

*Superior particulate filtration for  
ultrapure gas systems*

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. They perform exceptionally well in gas panels and gas cabinets where ultrapure gas is required for wafer processing.

## APPLICATIONS

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

## FEATURES & BENEFITS

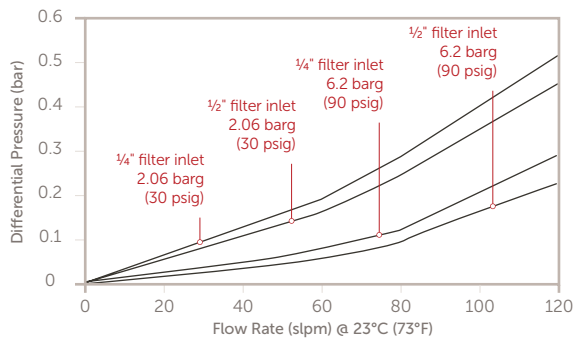
- Compact unit reduces overall gas box footprint, saving valuable equipment space
- Low pressure drop reduces risk of condensation in low-vapor pressure gases
- Cleanroom manufactured and 100% tested ensures high reliability
- PTFE membranes provide high-efficiency filtration, improving product yield



## SPECIFICATIONS

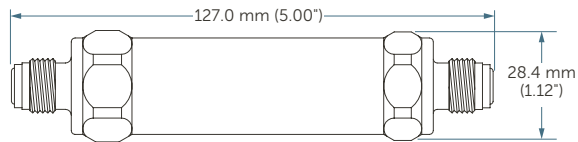
<b>Materials of construction</b>	Filter element	Hydrophobic PTFE membrane supported by molded PFA structure
	Housing	Electropolished 316L stainless steel
<b>Downstream cleanliness</b>	Particles	<0.03 particles/liter (<1 particle/ft <sup>3</sup> ) >0.01 µm
	Volatiles	<10 ppb moisture
<b>Removal rating</b>	0.0015 µm	
<b>Surface finish interior</b>	<10 µin Ra	
<b>Helium leak rating</b>	Qualified	2 × 10 <sup>-10</sup> atm/cc-sec
	Tested	1 × 10 <sup>-9</sup> atm/cc-sec
<b>Operating conditions</b>	<p>Maximum inlet pressure: 20.7 MPa (207 barg; 3000 psig) @ 23°C (73°F)</p> <p>Maximum forward differential pressure: 0.4 MPa (4 bar; 60 psid) @ 23°C (73°F)</p> <p>Maximum differential pressure: 0.07 MPa (0.7 bar; 10 psid) @ 23°C (73°F)</p> <p>Maximum operating temperature: 120°C (248°F)</p>	
<b>Particle retention</b>	Greater than 99.999999% (9 LRV) removal of all particles @ 100 slpm (referenced at the most penetrating particle size)	
<b>Flow rating</b>	Refer to performance data	

## PERFORMANCE DATA

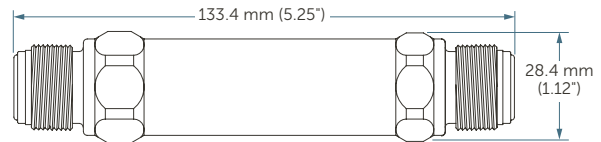


## DIMENSIONS

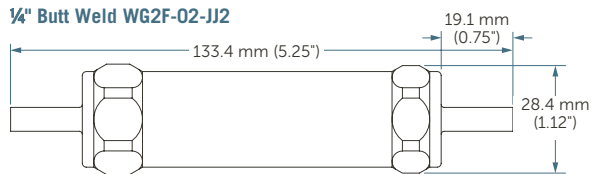
**¼" Gasket Seal WG2F-02-RR2**



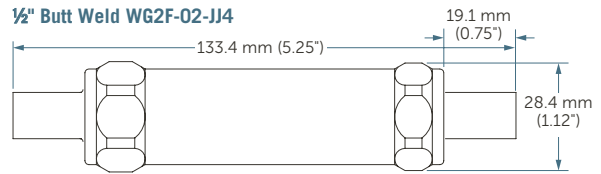
**½" Gasket Seal WG2F-02-RR4**



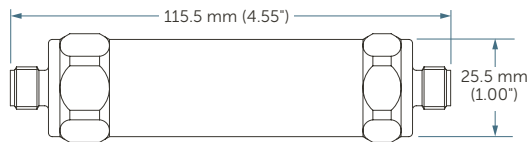
**¼" Butt Weld WG2F-02-JJ2**



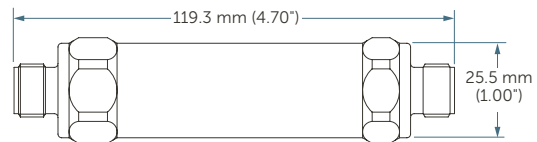
**½" Butt Weld WG2F-02-JJ4**



**¼" Compression Seal (Swagelok® compatible) WG2F-02-PS1**



**¾" Compression Seal (Swagelok compatible) WG2F-32-PS1**



## ORDERING INFORMATION

Part number	Fitting description	Overall length
WG2F 02 RR2	¼" Gasket seal (compatible with VCR® fitting) male inlet/outlet	127.0 mm (5.00")
WG2F 02 RR4	½" Gasket seal (compatible with VCR fitting) male inlet/outlet	133.4 mm (5.25")
WG2F 02 JJ2	¼" Butt weld tube	133.4 mm (5.25")
WG2F 02 JJ4	½" Butt weld tube	133.4 mm (5.25")
WG2F 02 PS1	¼" Compression seal (compatible with Swagelok fitting) male inlet/outlet	115.5 mm (4.55")
WG2F 32 PS1	¾" Compression seal (compatible with Swagelok fitting) male inlet/outlet	119.3 mm (4.70")

#### FOR MORE INFORMATION

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