

# Wafergard® II F Micro In-line Gas Filters

*Superior particulate filtration for high-purity gas systems*

For ultrapure gas systems, your best choice is the Wafergard® II F Micro in-line gas filter with a particle removal rating of  $\geq 0.0015 \mu\text{m}$ . Recommended for inert and reactive gases, these filters offer excellent compatibility with all classes of semiconductor process gases.

The filter's compact diameter enables easy installation in cramped gas panels and cabinets.

## APPLICATIONS

- Life sciences applications
- Ozone applications (gas)
- Gas cabinets and panels
- Ultrapure gas systems
- Inside process tools

## FEATURES & BENEFITS

<b>Low pressure drop filter design</b>	Reduces the risk of contamination in low vapor pressure gases
<b>PTFE filter membrane</b>	Provides excellent compatibility and high-efficiency filtration
<b>Small, compact footprint (19.05 mm [0.75"] maximum diameter)</b>	Saves valuable equipment space and allows for easy installation when space is limited
<b>Cleanroom manufactured, welded, and tested</b>	Ensures clean, reliable performance

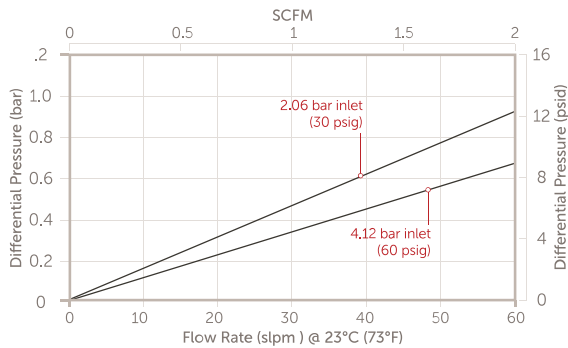


*Offer excellent compatibility with all classes of semiconductor process gases*

## SPECIFICATIONS

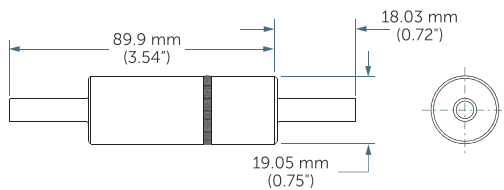
<b>Materials</b>	Filter element	Hydrophobic PTFE membrane supported by molded PFA structure
	Housing	Electropolished VAR 316L stainless steel
<b>Downstream cleanliness</b>	Less than 0.03 particles/liter (<1 particle/ft <sup>3</sup> ) greater than 0.01 μm	
	Volatiles	<10 ppb moisture
<b>Removal rating</b>	≥0.0015 μm	
<b>Surface finish interior</b>	≤7 μin Ra	
<b>Helium leak rating</b>	Qualified	2 × 10 <sup>-10</sup> cc/sec
	Tested	1 × 10 <sup>-9</sup> cc/sec
<b>Operating conditions</b>	Maximum inlet pressure	207 bar (3000 psig) @ 23°C (73°F)
	Maximum forward differential pressure	4 bar (60 psid) @ 23°C (73°F)
	Maximum reverse differential pressure	0.07 MPa (0.7 bar, 10 psid) @ 23°C (73°F)
	Maximum operating temperature	120°C (248°F)
<b>Particle retention</b>	Greater than 99.9999999% (9 LRV) removal of all particles @ 30 slpm (referenced at the most penetrating particle size)	
<b>Flow rating</b>	Refer to performance data	

## PERFORMANCE DATA

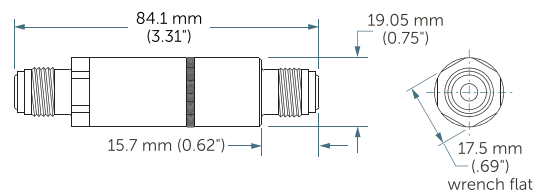


## DIMENSIONS

WG2F T1 BW2 ¼" butt weld

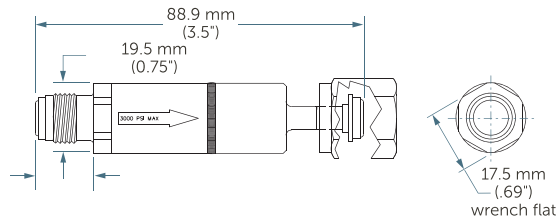


WG2F T1 RR2 ¼" gasket seal fitting, male

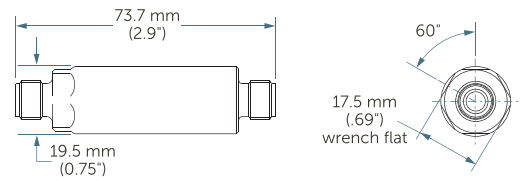


## DIMENSIONS

WG2F T1 RF2 1/4" gasket seal fitting, male/female



WG2F T1 SS2 1/4" Swagelok® fitting, male



## ORDERING INFORMATION

PART NUMBER	FITTING SIZE AND TYPE	LENGTH	APPLICATION
WG2FH5RR2	1/4 gasket seal (compatible with VCR fitting) male	84.1 mm (3.31")	Semiconductor
WG2FT1BW2	1/4" Butt weld tube	89.9 mm (3.54")	Semiconductor
WG2FT1RF2	1/4" gasket seal (compatible with VCR fitting) male inlet/female outlet	88.9 mm (3.50")	Semiconductor
WG2FT1RR2	1/4" Gasket seal (compatible with VCR Fitting) male inlet/outlet	84.1 mm (3.31")	Semiconductor
WG2FT1RR2L	1/4" Gasket seal (compatible with VCR Fitting) male inlet/outlet	84.1 mm (3.31")	Life Sciences
WG2FT1SS2	1/4" Compression seal (compatible with Swagelok fitting)	73.7 mm (2.90")	Semiconductor

#### FOR MORE INFORMATION

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Corporate Headquarters  
129 Concord  
Billerica, MA 01821  
USA

Customer Service  
Tel +1 952 556 4181  
Fax +1 952 556 8022  
Toll Free 800 394 4083

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