

Wafergard® II F Micro In-Line Gas Filters

Superior particulate filtration for high-purity gas system filtration

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.

Its compact diameter enables easy installation in cramped gas panels and cabinets.



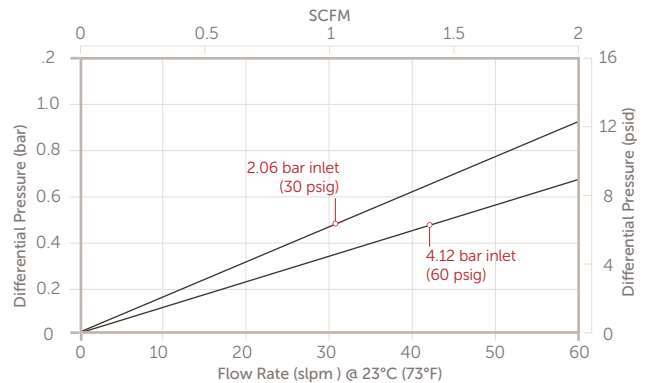
APPLICATIONS

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

FEATURES & BENEFITS

- Compact footprint with a maximum diameter of 19.05 mm (0.75") allows installation even when space is limited
- Low pressure drop reduces the risk of condensation in low vapor pressure gases
- Cleanroom manufactured, welded and tested for high reliability
- Teflon® PTFE membranes provide high-efficiency filtration

PERFORMANCE DATA

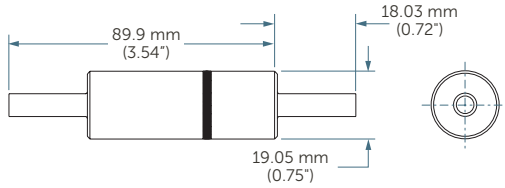


SPECIFICATIONS

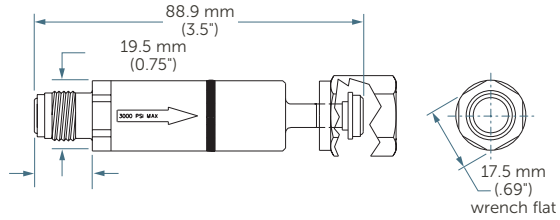
Materials	Filter element	Hydrophobic Teflon® PTFE membrane supported by molded Teflon PFA structure
	Housing	Electropolished VAR 316L stainless steel
Downstream cleanliness	Less than 0.03 particles/liter (<1 particle/ft ³) greater than 0.01 µm	
	Volatiles	<10 ppb moisture
Removal rating	≥0.0015 µm	
Surface finish interior	≤7 µin Ra	
Helium leak rating	Qualified	2 × 10 ⁻¹⁰ cc-sec
	Tested	1 × 10 ⁻⁹ cc-sec
Operating conditions	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)	
Particle retention	Greater than 99.9999999% (9 LRV) removal of all particles @ 30 slpm (referenced at the most penetrating particle size)	
Flow rating	Refer to performance data	

DIMENSIONS

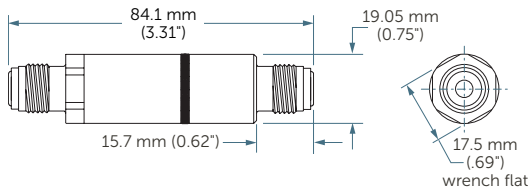
WG2F T1 BW2 ¼" butt weld



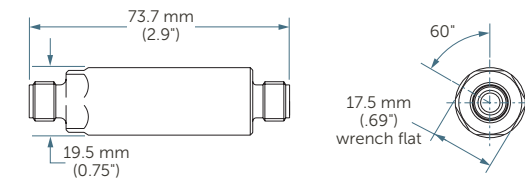
WG2F T1 RF2 ¼" gasket seal fitting, male/female



WG2F T1 RR2 ¼" gasket seal fitting, male



WG2F T1 SS2 ¼" Swagelok® fitting, male



ORDERING INFORMATION

Part number	Fitting description	Overall length
WG2FT1BW2	¼" Butt weld tube	89.9 mm
WG2FT1RR2	½" Gasket seal (compatible with VCR fitting) male	84.1 mm
WG2FT1RF2	¼" Gasket seal (compatible with VCR fitting) male inlet/female outlet	88.9 mm
WG2FT1SS2	½" Swagelok tube fitting male	73.7 mm

FOR MORE INFORMATION

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit entegris.com and select the [Contact Us](#) link to find the customer service center nearest you.

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