

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

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

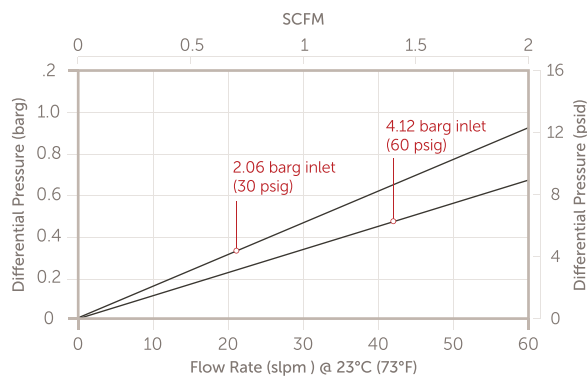


Offer excellent compatibility with all classes of semiconductor process gases

SPECIFICATIONS

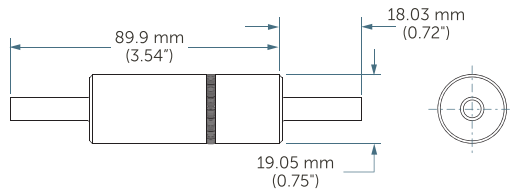
Materials	Filter element	Hydrophobic PTFE membrane supported by molded PFA structure
	Housing	Electropolished VAR 316L stainless steel
Downstream cleanliness	Less than 0.03 particles/liter (<1 particle/ft ³) greater than 0.01 µm	
	Volatiles	<10 ppb moisture
Removal rating	≥0.0015 µm	
Surface finish interior	≤7 µin Ra	
Helium leak rating	Qualified	2 × 10 ⁻¹⁰ cc/sec
	Tested	1 × 10 ⁻⁹ cc/sec
Operating conditions	Maximum inlet pressure	207 barg (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	

PERFORMANCE DATA

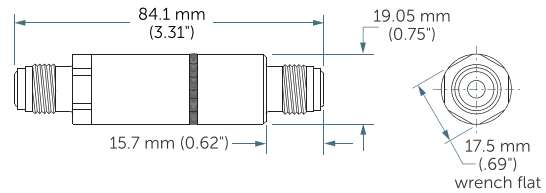


DIMENSIONS

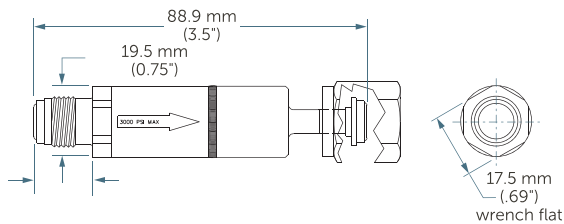
WG2F T1 BW2 ¼" butt weld



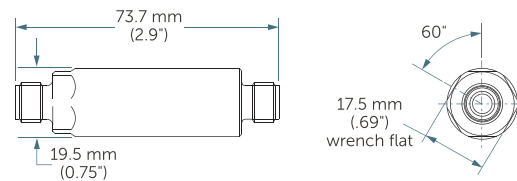
WG2F T1 RR2 ¼" gasket seal fitting, male



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



WG2F T1 SS2 ¼" Swagelok® fitting, male



FOR MORE INFORMATION

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