

Wafergard® II SF Micro XL In-line Gas Filters

*Superior particulate filtration for
ultrapure gas system filtration*

Wafergard® II SF Micro XL gas filters are the filters of choice for high-purity gas systems when all stainless steel construction is preferred.

A state-of-the-art housing assembly eliminates outgassing by minimizing weld area. The all-metal construction is ideal for high-temperature and dynamic pressure applications. Its compact size and flexible choice of fittings provide ultimate design efficiency and minimizes engineering costs.



APPLICATIONS

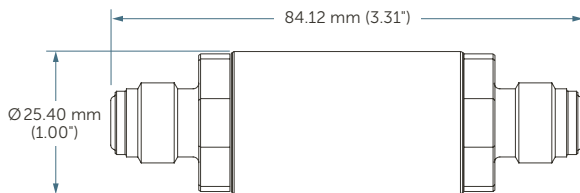
- Ultra-high purity gas lines
- Dynamic pressure applications
- High-temperature applications
- Inert and reactive gases
- New fab construction

FEATURES & BENEFITS

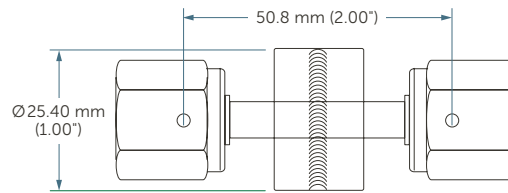
- All-metal welded filter
- Excellent compatibility with most high-purity semiconductor process gases

DIMENSIONS

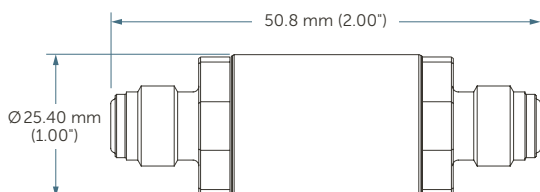
SI2R15E05 and WG2SS8RR2



SI2R19E07



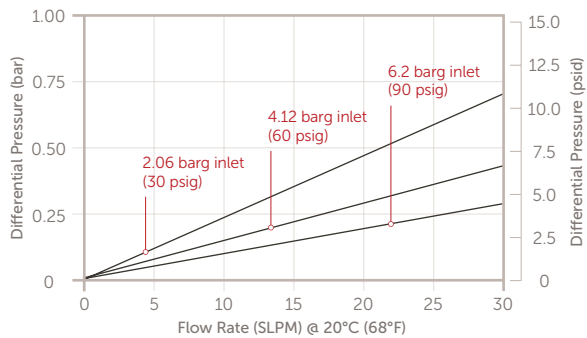
SI2R20E08



SPECIFICATIONS

Materials	Filter element	Stainless steel membrane filter
	Housing	Electropolished VAR316L stainless steel housing
Downstream cleanliness	Particles	<0.03 particles/liter (<1 particle/ft ³) >0.01 µm
	Volatiles	<10 ppb moisture
Removal rating	≥0.0015 µm	
Surface finish interior	≤5.00 µin Ra	
Helium leak rating	Qualified	2×10^{-10} atm/cc-sec
	Tested	1×10^{-9} atm/cc-sec
Maximum operating conditions	Maximum inlet pressure: 20 MPa (200 barg; 2900 psig) @ 20°C (68°F)	
	Maximum forward/reverse differential pressure: 1 MPa (10 bar; 150 psid)	
	Maximum operating temperature: 460°C (860°F) @ 35 bar (500 psi)	
Warranty	2 years	
Particle retention	Greater than 99.9999999% (9 LRV) removal of all particles	
Flow rating	Refer to performance data	

PERFORMANCE DATA



ORDERING INFORMATION

Part number	Description	Length
SI2R15E05	Wafergard II SF Micro XL in-line gas filters, 1/4" gasket seal (compatible with VCR® fitting), male inlet/outlet	84.1 mm (3.31")
SI2R19E07	Wafergard II SF Micro XL in-line gas filters, 1/4" gasket seal (compatible with VCR fitting), female inlet/outlet, short version	50.8 mm (2.00")
SI2R20E08	Wafergard II SF Micro XL in-line gas filters, 1/4" gasket seal (compatible with VCR fitting), male inlet/outlet, short version	50.8 mm (2.00")
WG2SS8RR2	Wafergard SF Micro XL in-line gas filters, 1/4" gasket seal (compatible with VCR fitting), male inlet/outlet	84.1 mm (3.31")

FOR MORE INFORMATION

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