

Wafergard® III NF Micro XL In-line Gas Filters

Nickel filter membrane offers superior corrosion resistance

Wafergard® III nickel filters are the cleanest, most efficient all-metal filters available. The patented nickel filter membrane offers superior corrosion resistance and excellent compatibility with inert and reactive gases.

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 minimize engineering costs.



Ideal for high-temperature and dynamic-pressure applications

APPLICATIONS

- Ultrapure gas lines
- High temperature applications
- New fab construction
- Dynamic-pressure applications
- Inert and reactive gases

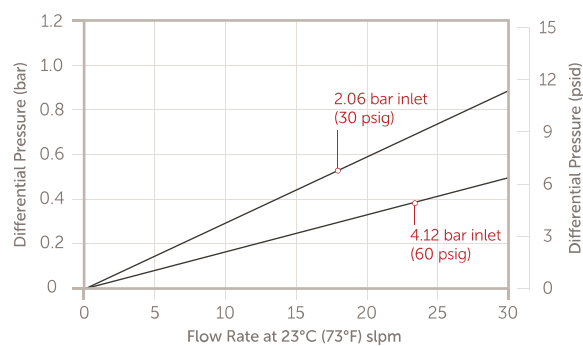
FEATURES & BENEFITS

All-metal construction	Is ideal for high-temperature and dynamic-pressure applications.
Nickel filter membrane	Provides superior corrosion resistance and excellent compatibility with inert and reactive gases
State-of-the-art housing assembly	Eliminates outgassing by minimizing weld area

SPECIFICATIONS

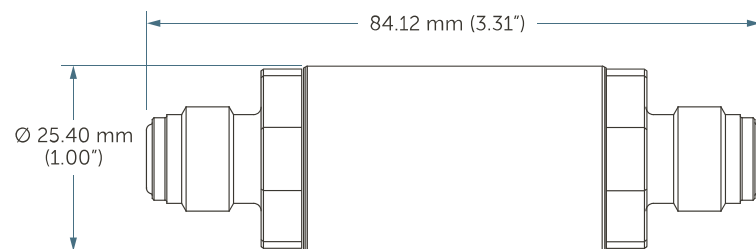
Materials	Filter element	Sintered nickel membrane filter		
	Housing	Electropolished VAR316L stainless steel housing		
Downstream cleanliness	Particles	<0.03 particles/liter (<1 particle/ft³) >0.01 μm		
	Volatiles	Volatile outgassing of H₂O, O₂, and THC is below detectable limits (by RGA and FID at room temperature)		
Removal rating	≥0.0015 μm			
Surface finish interior	≤5 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 bar, 2900 psid) at 20°C (68°F)		
	Design pressure	20 MPa (200 bar, 2900 psid) at 20°C (68°F)		
	Maximum forward/reverse differential pressure	1 MPa (10 bar, 150 psid)		
	Maximum operating temperature	Inert gases	400°C (725°F) @ 35 bar (500 psi)	
		Corrosive and reactive gases	50°C (122°F) @ 70 bar (1000 psi)	
Warranty	5 year			
Particle retention	Greater than 99.9999999% (9 LRV) removal of all particles at 15 slpm			
Flow rating	Refer to performance data			

PERFORMANCE DATA

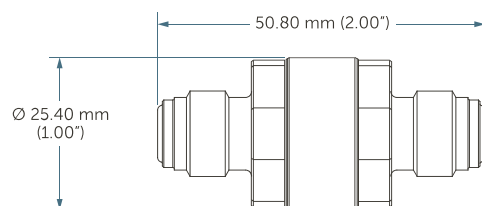


DIMENSIONS

WG3NS8RR2/WG3NS8RR2P



WG3NS8SL2



ORDERING INFORMATION

PART NUMBER	FITTING SIZE AND TYPE	LENGTH
WG3NS8RR2	1/4" Gasket seal (compatible with VCR Fitting) male inlet/outlet	84.1 mm (3.31")
WG3NS8SL2	1/4" Gasket seal (compatible with VCR Fitting) male inlet/outlet, short Version	50.8 mm (2.00")

FOR MORE INFORMATION

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