

Wafergard® III NF-75 In-line Gas Filters

*Superior particulate filtration for
ultrapure applications*

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. The compact size and flexible choice of fittings provide ultimate design efficiency and minimize engineering costs.

APPLICATIONS

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

Note: Not recommended for use with CO, O₃, and low level hydride dopant gases.

FEATURES & BENEFITS

All-metal construction	Provides clean, efficient filtration performance
Nickel filter membrane	Offers superior corrosion resistance and excellent chemical compatibility with inert and reactive gases
State-of-the-art housing assembly	Eliminates outgassing by minimizing weld area
Compact size and flexible choice of fittings	Provide ultimate design efficiency and minimize engineering costs



Ideal for high temperature and dynamic pressure applications

SPECIFICATIONS

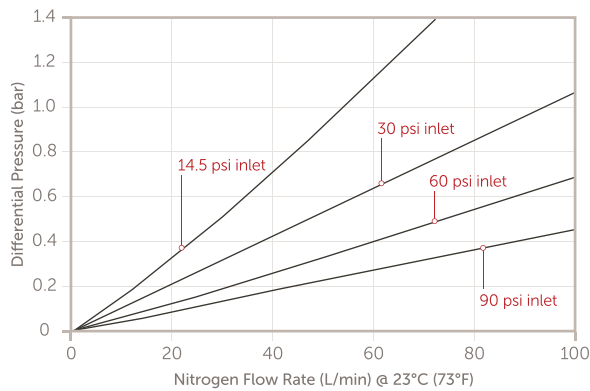
Materials	Filter element	Patented, sintered nickel membrane filter		
	Housing	Electropolished VAR 316L stainless steel housing		
Downstream cleanliness	Particles ¹	Less than 0.03 particles/liter (<1 particle/ft ³) greater than 0.01 μm		
	Volatiles ²	Volatile outgassing of H ₂ O, O ₂ , and THC is below 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	70 bar (1000 psi) @ 100°C		
	Maximum forward/reverse differential pressure	10 bar (150 psid)		
	Maximum operating temperature	Inert gases	400°C @ 35 bar (500 psi)	
		Corrosive and reactive gases	50°C @ 70 bar (1000 psi)	
Warranty	5 year			
Particle retention	Greater than 99.9999999% (9 LRV) removal of all particles at maximum rated flow (referenced at the most penetrating particle size)			
Flow rating	See performance data			

¹ Particle cleanliness qualified following SEMASPEC Test Method for Particle Shedding (#93021511A-STD).

² Volatile cleanliness qualified following SEMASPEC Test Methods for: THC Contribution (#90120396B-STD), Moisture Contribution (#90120397B-STD), and Oxygen Contribution (#90120398B-STD).

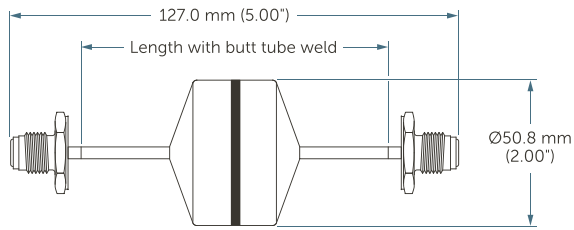
PERFORMANCE DATA

Wafergard III NF-75

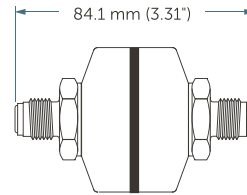


DIMENSIONS

Standard Version



Short Version



ORDERING INFORMATION

PART NUMBER	FITTING SIZE AND TYPE	LENGTH
WG3NS4JJ2	1/4" Butt weld tube	71.4 mm (2.81")
WG3NS4RR2	1/4" Gasket seal (compatible with VCR Fitting) male inlet/outlet	127.0 mm (5.00")
WG3NS7SL2	1/4" Gasket seal (compatible with VCR Fitting) male inlet/outlet	84.1 mm (3.31")

FOR MORE INFORMATION

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