

Wafergard® III NF-100 In-line Gas Filter

*Superior particulate filtration
for ultrapure gas systems*

Wafergard® III NF-100 nickel gas filters are the cleanest, most efficient all-metal filters available for use in ultrapure gas lines with flows up to 100 slpm. The patented nickel filter membrane offers superior corrosion resistance and excellent compatibility with inert and reactive gases.

By minimizing the weld area, the state-of-the-art housing assembly eliminates outgassing and reduces drydown time. The all-metal construction is ideal for high-temperature and dynamic-pressure applications.

APPLICATIONS

- Ultrapure, inert, and reactive gas lines
- High-temperature applications
- New fab construction
- Dynamic-pressure applications

Note: Not recommended for use with CO₂, O₃, and low-level hydride dopant gases.



Combines the strength of our metal membrane with the pressure drop and compact size of fluoropolymer filters.

FEATURES & BENEFITS

All-metal materials of construction	Provides the cleanest, most efficient particle filtration, offering superior corrosion resistance and excellent compatibility with inert and reactive gases
State-of-the-art housing assembly	Eliminates outgassing, reduces drydown time, and does not contribute contamination

SPECIFICATIONS

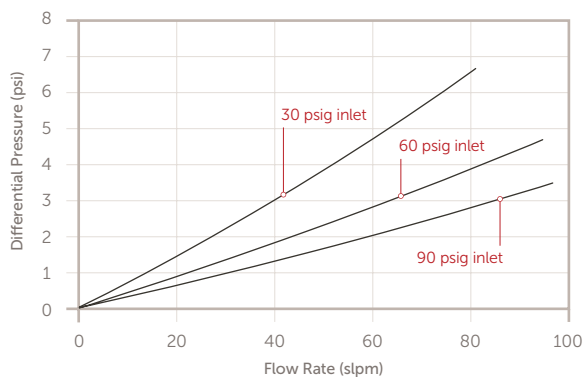
Materials	Filter element	Patented, sintered nickel membrane filter	
	Housing	Two housing options available <ul style="list-style-type: none">• Electropolished 316L semi F20 stainless steel (NS)• A22 (NH)	
Downstream cleanliness	Particles*	Less than 0.03 particles/liter (<1 particle/ft³)	
Standard downstream cleanliness	<0.03 particles/liter (<1 particle/ft³) >0.01 μm at specified flow		
Removal rating	≥0.0015 μm		
Helium leak rating	Qualified	2 × 10 ⁻¹⁰ atm cc/sec	
	Tested	1 × 10 ⁻⁹ atm cc/sec	
Operating conditions	Maximum inlet pressure: 50 bar (725 psig)		
	Maximum forward/reverse differential pressure: 5.2 bar (75 psi)		
	Maximum operating temperature	Inert gases	400°C (725°F)
		Corrosive and reactive gases	gas type and condition dependent**
Particle retention	Greater than 99.9999999% (9 LRV) removal of all particles at 100 slpm		

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

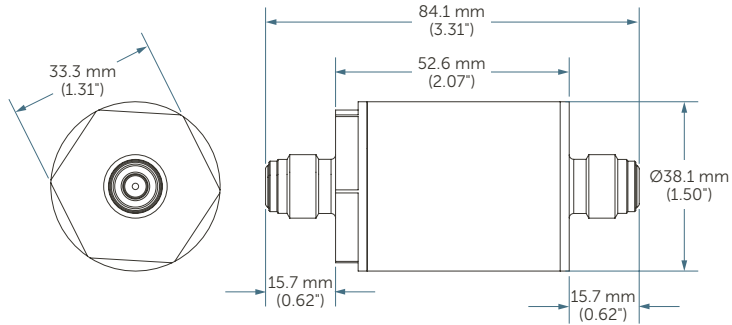
**Contact your Entegris Account Manager for specific details.

PERFORMANCE DATA

Wafergard III NF-100 In-line Gas Filter



DIMENSIONS



ORDERING INFORMATION

Part number	Housing material	Fitting size and type	Flow rate
WGL100NS3R2	Electropolished 316 L semi F20 stainless steel	1/4" gasket seal (compatible with VCR® fitting) male inlet/outlet	100 slpm
WGL100NH3R2	A22	1/4" gasket seal (compatible with VCR-fitting) male inlet/outlet	100 slpm

FOR MORE INFORMATION

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