



WAFERGARD® III NF MICRO XL IN-LINE GAS FILTERS

*Superior particulate filtration for
ultrapure gas system filtration*

Overview

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.

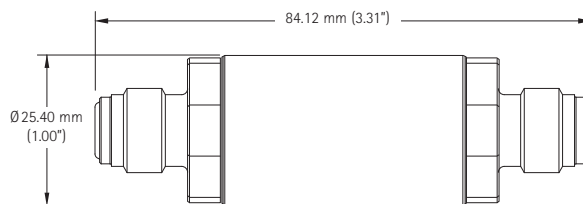
*Not recommended for use with CO, O₃ and low-level hydride dopant gases.

Applications

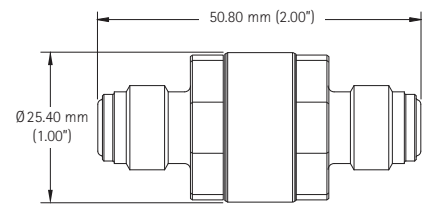
- Ultrapure gas lines
- High-temperature applications
- New fab construction
- Dynamic-pressure applications
- Inert and reactive gases

Dimensions

WG3N S8 RR2/WG3N S8 RR2P



WG3N S8 SL2



Key Features

- Superior corrosion resistance
- Cleanest, most efficient filter

Ordering Information

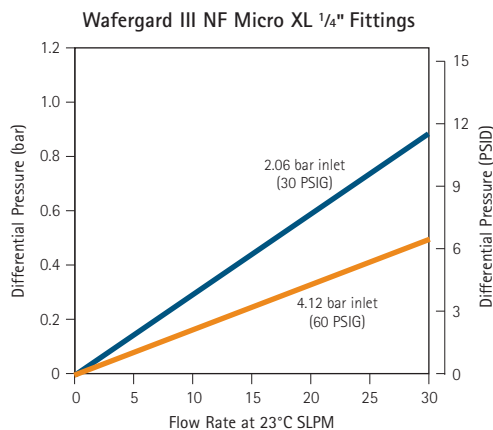
Part Number	Description	Overall Length
WG3N S8 RR2	Wafergard III NF Micro XL in-line filter, 1/4" Gasket seal (compatible with VCR fitting) male inlet/outlet	84.1 mm (3.31")
WG3N S8 RR2P*	Wafergard III NF Micro XL in-line filter, 1/4" Gasket seal (compatible with VCR fitting) male inlet/outlet	84.1 mm (3.31")
WG3N S8 SL2	Wafergard III NF Micro XL in-line filter, 1/4" Gasket seal (compatible with VCR fitting) male inlet/outlet, short version	50.8 mm (2.00")

*Fitting is protected with plastic cap instead of metallic cap

Specifications

Materials:	Filter element	Patented, sintered nickel membrane filter
	Housing	Electropolished VAR316L stainless steel housing
Downstream cleanliness:	Particles	<0.03 particles/liter (<1 particle/ft ³) >0.01 μm
	Volatiles	Volatile outgassing of H ₂ O, O ₂ and THC is below detectable limits (by RGA and FID at room temperature)
Removal rating:	≥0.003 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
	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



For More Information

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit www.entegris.com and select the "Customer Service" link for the center nearest you.

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