



## 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.

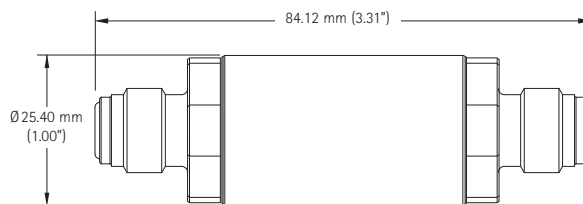
\*Not recommended for use with CO, O<sub>3</sub> and low-level hydride dopant gases.

### Applications

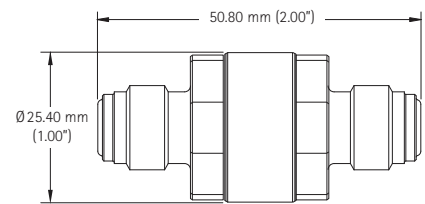
- Ultrapure gas lines
- High-temperature applications
- New fab construction
- Dynamic-pressure applications
- Inert and reactive gases

### Dimensions

WG3N S8 RR2/WG3N S8 RR2P



WG3N S8 SL2



### Key Features

- Superior corrosion resistance
- Cleanest, most efficient filter

### Ordering Information

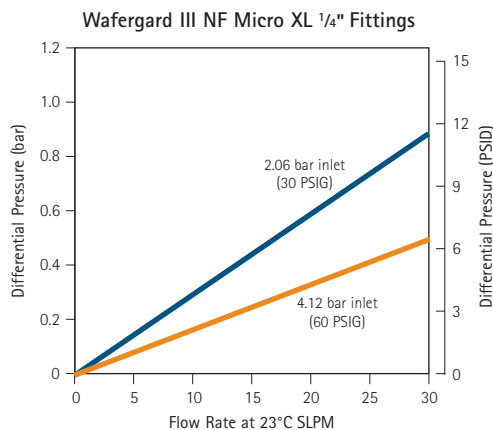
Part Number	Description	Overall Length
WG3N S8 RR2	Wafergard III NF Micro XL in-line filter, 1/4" Gasket seal (compatible with VCR fitting) male inlet/outlet	84.1 mm (3.31")
WG3N S8 RR2P*	Wafergard III NF Micro XL in-line filter, 1/4" Gasket seal (compatible with VCR fitting) male inlet/outlet	84.1 mm (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 <sup>3</sup> ) >0.01 μm
	Volatiles	Volatile outgassing of H <sub>2</sub> O, O <sub>2</sub> 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 <sup>-10</sup> atm-cc/sec.
	Tested	1 × 10 <sup>-9</sup> 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

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### ENTEGRIS, INC.

Corporate Headquarters / 3500 Lyman Boulevard / Chaska, Minnesota 55318 USA  
Customer Service Tel. 952-556-4181 / Customer Service Fax 952-556-8022  
[www.entegris.com](http://www.entegris.com)