



WAFERGARD® III NF-30 IN-LINE GAS FILTERS

Superior particulate filtration for ultrapure gas applications

Product Description

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.¹

A state-of-the-art housing assembly eliminates out-gassing and potential contamination 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 offers design efficiency at minimal cost.

¹ Not recommended for use with CO, O₃ and low level hydride dopant gases.



Features and Benefits

- Cleanest, most efficient all-metal filter available
- Patented nickel filter membrane offers superior corrosion resistance and excellent chemical compatibility
- Innovative housing design helps eliminate outgassing and reduces drydown times

Specifications

Materials:	Filter Element: Patented, sintered nickel membrane filter Housing: Electropolished F20 stainless steel housing
Downstream cleanliness:	Particles ² : Less than 0.03 particles/Liter (<1 particle/ft ³) greater than 0.01 µm Volatiles ³ : 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 cc/min. Tested: 1 × 10 ⁻⁹ cc/min.
Maximum operating conditions:	Maximum inlet pressure: 70 bar (1000 PSI) at 100°C Maximum forward/reverse differential pressure: 10 bar (150 PSID)
Maximum operating temperature:	Inert gases: 400°C at 35 bar (500 PSI) Corrosive and reactive gases: 50°C at 70 bar (1000 PSI)
Warranty:	5 year
Particle retention:	Greater than 99.9999999% (9 LRV) removal of all particles at 30 SLPM. Greater than 99.9999% removal of all particles at 75 SLPM (referenced at the most penetrating particle size).
Flow rating:	Refer to flow curve

² Particle cleanliness qualified following SEMASPEC Test Method for Particle Shedding (#93021511A-STD)

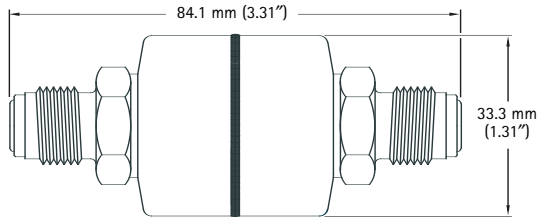
³ Volatile cleanliness qualified following SEMASPEC Test Methods for: THC Contribution (#90120396B-STD), Moisture Contribution (#90120397B-STD), Oxygen Contribution (#90120398B-STD)

Ordering Information

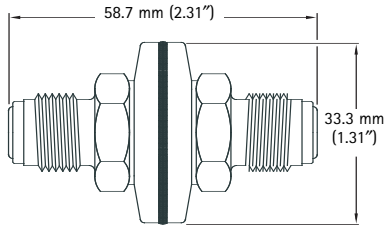
Product Number	Fitting Options	Overall Length
WG3N S6 RR2	1/4" Gasket seal (compatible with VCR® fitting) male inlet/outlet	84.1 mm (3.31")
WG3N S3 FF2	1/4" Gasket seal (compatible with VCR® fitting) female inlet/outlet	58.4 mm (2.30")
WG3N S3 RF2	1/4" Polarized gasket seal (compatible with VCR® fitting) male inlet/female outlet	71.1 mm (2.80")
WG3N S3 FR2	1/4" Polarized gasket seal (compatible with VCR® fitting) female inlet/male outlet	71.1 mm (2.80")
WG3N S6 SL2	1/4" Gasket seal (compatible with VCR® fitting) male inlet/outlet, short version	58.7 mm (2.31")
WG3N S3 JJ2	1/4" Butt weld tube	28.4 mm (1.12")

Dimensional Information

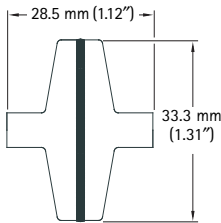
WG3N S6 RR2: 1/4" Gasket Seal, Male



WG3N S6 SL2: 1/4" Gasket Seal (short), Male



WG3N S3 JJ2: 1/4" Butt Weld



Terms and Conditions of Sale

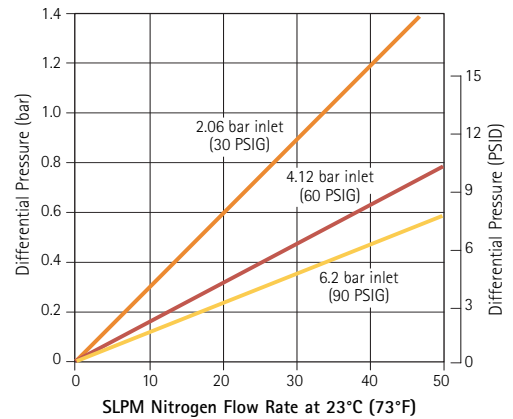
All purchases are subject to Entegris' "Terms and Conditions of Sale." To view and print this information, visit Entegris' Web site at www.entegris.com and select the Legal Notices link from the footer found on the home page.

Entegris® and Wafergard® are registered trademarks of Entegris, Inc. VCR® is a registered trademark of Cajon Company.

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

Performance Specifications



For Additional Information

To find out more about what Entegris can do for you, please call one of our Regional Customer Service Centers today.

Entegris Regional Customer Service Centers

	Telephone	Fax
North America	800-394-4083	800-763-5820
Germany	49-7264-3158-241	49-7264-9158-927
France	33-4-76-35-73-50	33-4-76-35-73-80
Japan	81-3-5442-9718	81-3-5442-9738
Malaysia	604-427-4200	604-403-1262
Korea	82-31-738-5300	82-31-738-5305
Taiwan	886-3-5710178	886-3-5729520
Singapore	65-6745-2422	65-6745-4477
China	86-21-28986710	86-21-5080-5598