

Wafergard® Bulk In-line Metal Gas Filters

The solution for high-flow, high-purity gas filtration

Entegris' complete line of all-metal high-flow filtration products satisfies the concerns and needs to supply particle-free process gas at the point of delivery.

Wafergard® bulk in-line gas filters are available with nickel filtration membranes for all process gases. These filters come in a variety of fitting types to meet your installation requirements.

Wafergard bulk in-line gas filters are available with 0.003 µm filtration technology to meet the most demanding needs of ultraclean bulk gas delivery.

APPLICATIONS

- Bulk gas
- Ultra-high purity gas lines
- High-temperature applications
- New fab construction and/or upgrade of existing filters

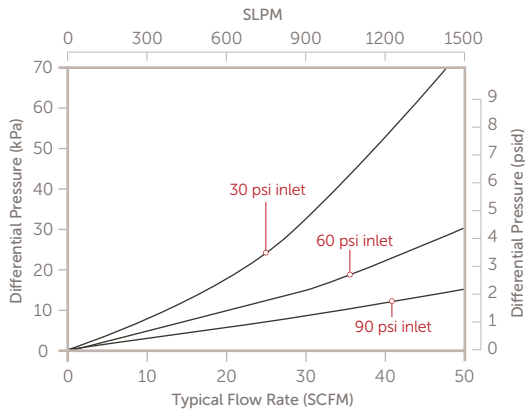


SPECIFICATIONS

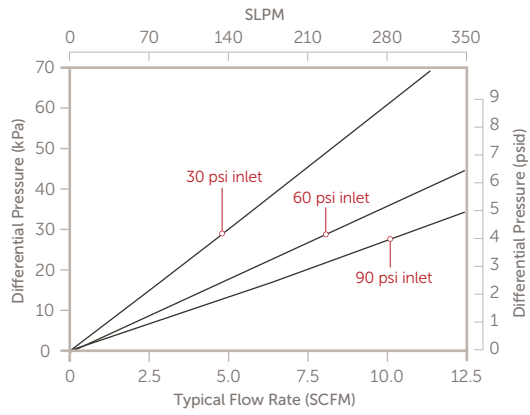
Materials	Filter element	Patented sintered nickel membrane filter
	Housing	Electropolished VAR 316L stainless steel
Removal rating	0.003 μm	
Surface finish interior	<10 $\mu\text{in Ra}$	
Downstream cleanliness	<0.03 particles/liter (<1 particle/ft ³) >0.01 μm	
Helium leak rating	1×10^{-9} atm cc/sec	
Maximum operating conditions	Maximum operating pressure: 50 bar (725 psig) SI2N0010R, SI2N0025R 31 bar (450 psig) SI2N0050R, SI2N0100B, SI2N0200B, SI2N0200R Maximum forward/reverse differential pressure: 5.2 bar (75 psid) Maximum operating temperature in inert gases: 200°C (392°F)	
Particle retention	Greater than 99.9999999% (9 LRV) removal of all particles at maximum rated flow (referenced at the most penetrating particle size)	

PERFORMANCE DATA

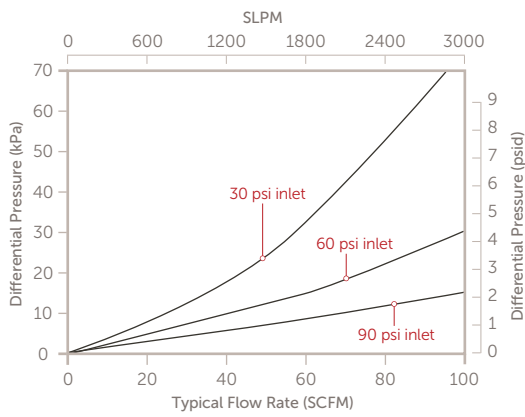
Wafergard SI2N0050R Bulk Gas Filters



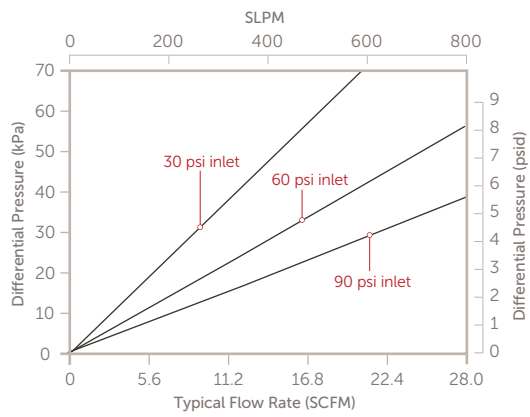
Wafergard SI2N0010R Bulk Gas Filters



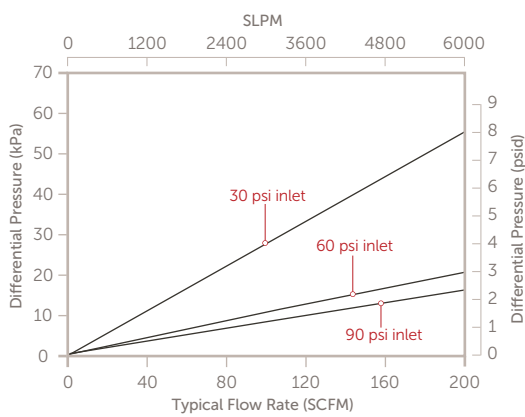
Wafergard SI2N0100B Bulk Gas Filters



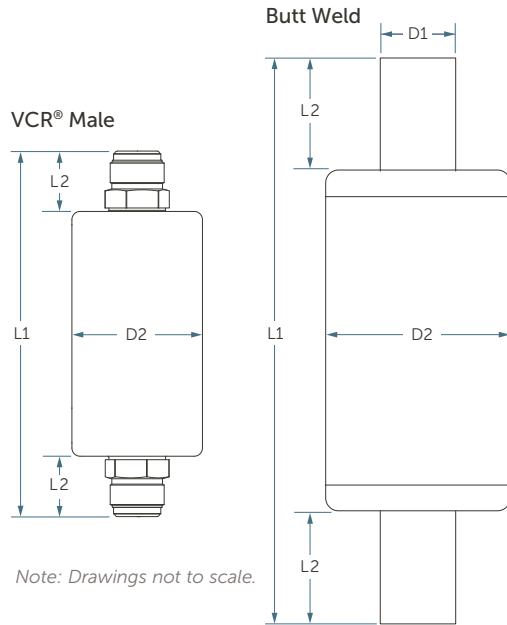
Wafergard SI2N0025R Bulk Gas Filters



Wafergard SI2N0200B, SI2N0200R Bulk Gas Filters



DIMENSIONS



ORDERING INFORMATION

Part number	Description
SI2N0010R	Wafergard in-line metal gas filter, 10 CFM, 1/2" VCR male
SI2N0010RV	Wafergard in-line metal gas filter, 10 CFM, 1/2" VCR male
SI2N0025R	Wafergard in-line metal gas filter, 25 CFM, 1/2" VCR male
SI2N0025RV	Wafergard in-line metal gas filter, 25 CFM, 1/2" VCR male
SI2N0050R	Wafergard in-line metal gas filter, 50 CFM, 3/4" VCR male
SI2N0100B	Wafergard in-line metal gas filter, 100 CFM, 1" butt weld tube
SI2N0200B	Wafergard in-line metal gas filter, 200 CFM, 1 1/2" butt weld tube
SI2N0200R	Wafergard in-line metal gas filter, 200 CFM, 1" VCR male

Part number	Fitting configuration	DIMENSIONS			
		D1	D2	L1	L2
SI2N0010R	VCR male	—	38.1 mm (1.50")	213 mm (8.4")	35.9 mm (1.41")
SI2N0010RV*	VCR male	—	38.1 mm (1.50")	213 mm (8.4")	35.9 mm (1.41")
SI2N0025R	VCR male	—	38.1 mm (1.50")	305 mm (12.0")	35.9 mm (1.41")
SI2N0025RV*	VCR male	—	38.1 mm (1.50")	305 mm (12.0")	35.9 mm (1.41")
SI2N0050R	VCR male	—	76.2 mm (3.00")	213 mm (8.4")	35.2 mm (1.39")
SI2N0100B	Butt weld	25.4 mm (1.00")	101.6 mm (4.00")	267 mm (10.5")	57.2 mm (2.25")
SI2N0200B	Butt weld	38.1 mm (1.50")	101.6 mm (4.00")	356 mm (14.0")	57.2 mm (2.25")
SI2N0200R	VCR male	—	101.6 mm (4.00")	354 mm (13.9")	56.4 mm (2.22")

* V suffix denotes ultra-high purity version. Please consult your local applications specialist for detailed downstream cleanliness specifications.

FOR MORE INFORMATION

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit entegris.com and select the Contact Us link to find the customer service center nearest you.

TERMS AND CONDITIONS OF SALE

All purchases are subject to Entegris' Terms and Conditions of Sale. To view and print this information, visit entegris.com and select the Terms & Conditions link in the footer.



Corporate Headquarters
129 Concord Road
Billerica, MA 01821
USA

Customer Service
Tel +1 952 556 4181
Fax +1 952 556 8022
Toll Free 800 394 4083

Entegris®, the Entegris Rings Design™, Pure Advantage™, and other product names are trademarks of Entegris, Inc. as listed on entegris.com/trademarks. All third-party product names, logos, and company names are trademarks or registered trademarks of their respective owners. Use of them does not imply any affiliation, sponsorship, or endorsement by the trademark owner.

©2005-2017 Entegris, Inc. | All rights reserved. | Printed in the USA | 4502-5522ENT-1117