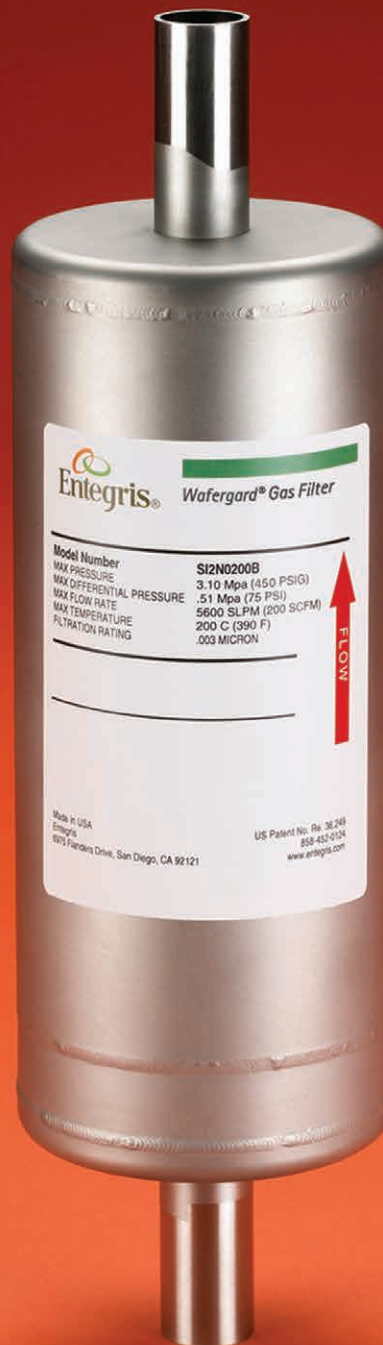




## WAFERGARD® BULK IN-LINE METAL GAS FILTERS

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



# high-flow, high-purity gas filtration

## Overview

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 ultra-clean bulk gas delivery.

## Applications

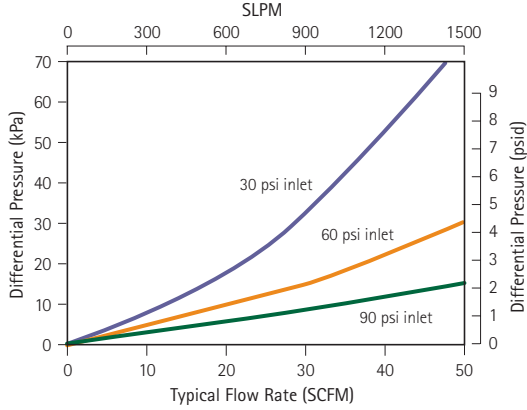
- Bulk gas
- Ultra-high purity gas lines
- High-temperature applications
- New fab construction and/or upgrade of existing filters

## Specifications

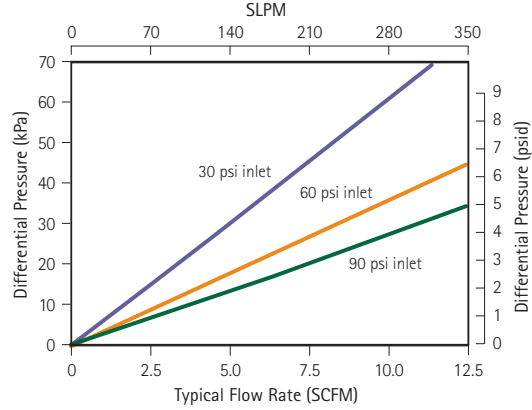
Materials:	Filter element	Patented sintered nickel membrane filter
	Housing	Electropolished VAR 316L stainless steel
Removal rating:	0.003 µm	
Surface finish interior:	<10 µin Ra	
Downstream cleanliness:	<0.03 particles/liter (<1 particle/ft <sup>3</sup> ) >0.01 µm	
Helium leak rating:	1 × 10 <sup>-9</sup> 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

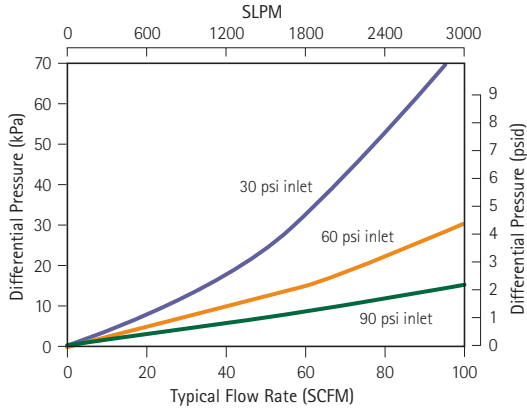
**Wafergard SI2N0050R Bulk Gas Filters**



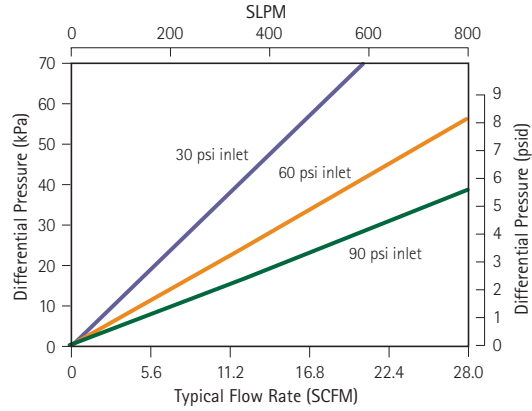
**Wafergard SI2N0010R Bulk Gas Filters**



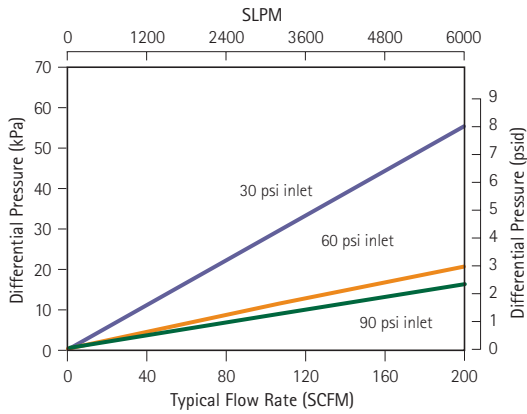
**Wafergard SI2N0100B Bulk Gas Filters**



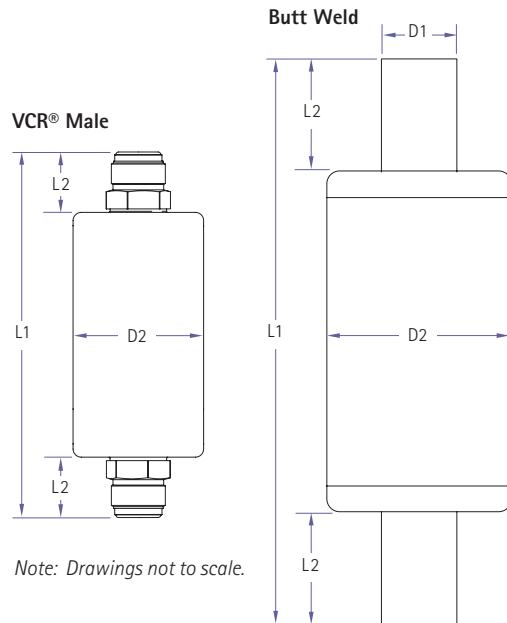
**Wafergard SI2N0025R Bulk Gas Filters**



**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 [www.entegris.com](http://www.entegris.com) and select the Customer Service link for the center nearest you.

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