



**WAFERGARD® SG GAS
FILTERS YY SERIES**

*Superior particulate filtration for
photovoltaic and display applications*



superior particulate filtration

Overview

Wafergard® SG YY series gas filters provide superior particulate filtration to maximize photovoltaic cell and display manufacturing production yields. The all-Teflon® filter elements are compatible with high-purity process gases as well as inert gas and CDA applications.

For over 40 years, Entegris has provided solutions to critical materials and processing challenges to maximize high-technology productivity and reduce production costs. Our filtration, purification and materials integrity management products and technologies provide our customers with leading-edge product performance capabilities.

Specifications

Materials:	Filter element	Hydrophobic PTFE membrane supported by molded Teflon PFA structure and PFA o-ring
	Housing	Electropolished 316L stainless steel
Downstream cleanliness:	Retention	4 LRV at rated flow
Removal rating:		≥0.003 µm
Helium leak rating:	Qualified	2×10^{-10} atm cc/sec
	Tested	5×10^{-8} atm cc/sec
Maximum operating conditions:	Maximum operating pressure	20 MPa (200 bar; 2900 PSIG) @ 23°C
	Maximum forward differential pressure	0.414 MPa (4.14 bar; 60 PSID) @ 23°C
	Maximum reverse differential pressure	0.069 MPa (0.69 bar; 10 PSID) @ 23°C
	Maximum operating temperature	120°C (248°F) in inert gases
Flow rating:	Refer to performance data	

Applications

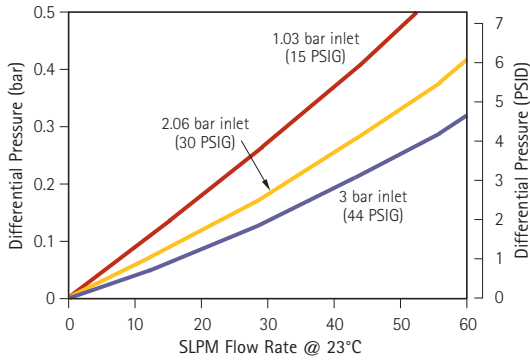
- Photovoltaic process gases
- Display manufacturing process gases
- Gas cabinets
- Valve manifold boxes
- Gas panels

Features and Benefits

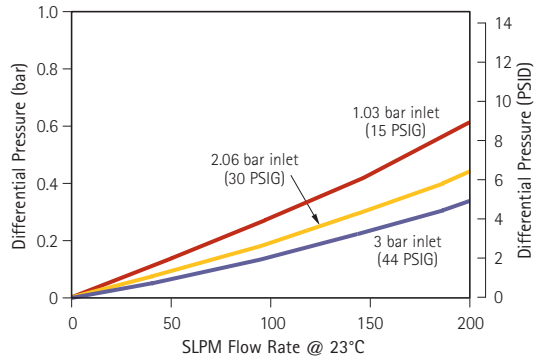
- Superior downstream cleanliness
- Excellent compatibility with high-purity gases including N₂, CDA and H₂

Performance Data

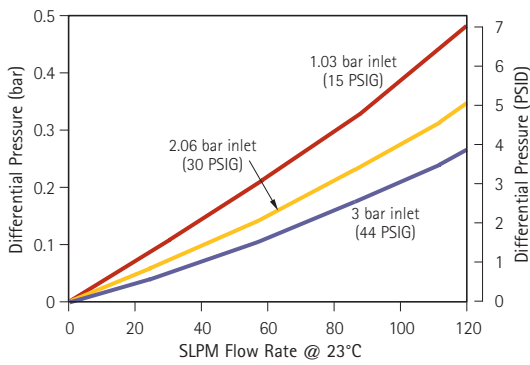
Wafergard SG Gas Filters YY Series
YY5001HS1 1/4" Compression Seal
YY5001HR1 1/4" Gasket Seal



Wafergard SG Gas Filters YY Series
YY5032PS1 3/8" Compression Seal
YY5032PR1 3/8" Gasket Seal

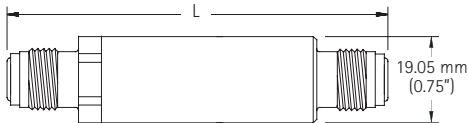


Wafergard SG Gas Filters YY Series
YY5002PS1 1/4" Compression Seal
YY5002PR1 1/4" Gasket Seal

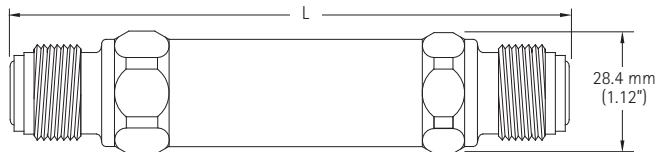


Dimensions

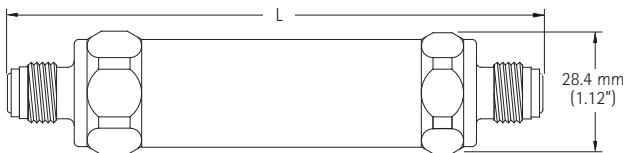
YY5001HR1 (1/4" Fitting): L = 84.1 mm (3.31")
YY5001HS1 (1/4" Fitting): L = 73.7 mm (2.90")



YY5032PR1 (3/8" Fitting): L = 133.5 mm (5.26")
YY5032PS1 (3/8" Fitting): L = 119.3 mm (4.70")



YY5002PR1 (1/4" Fitting): L = 127.0 mm (5.00")
YY5002PS1 (1/4" Fitting): L = 115.5 mm (4.55")



Ordering Information

Part Number		Description	Fitting Size
Compression Seal (Swagelok® Compatible)	Gasket Seal (VCR® Compatible)		
YY5001HS1	YY5001HR1	Wafergard SG Gas Filter YY Series	1/4"
YY5002PS1	YY5002PR1	Wafergard SG Gas Filter YY Series	1/4"
YY5032PS1	YY5032PR1	Wafergard SG Gas Filter YY Series	3/8"

Product Installation Manual

Instructions for the installation of these high-purity gas filters are not shipped with the product in an effort to reduce waste. The installation manual can be found by visiting www.entegris.com and selecting the "Document Library" link.

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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