



WAFERGARD® MAX-1000 IN-LINE TEFLON® GAS FILTERS

*Superior particulate filtration for
ultrapure gas application*

Overview

Wafergard® MAX-1000 in-line gas filters feature a PTFE membrane supported by a PFA structure and 316L stainless steel housing. Designed with 3x larger filtration area than existing Wafergard MAX-Bronze gas filters, the Wafergard MAX-1000 provides superior particulate filtration to minimize pressure drop and to maximize filter lifetime. Recommended applications are filtration of SiCl₄, GeCl₄ and POCl₃ for optical fiber application and silica glass application.



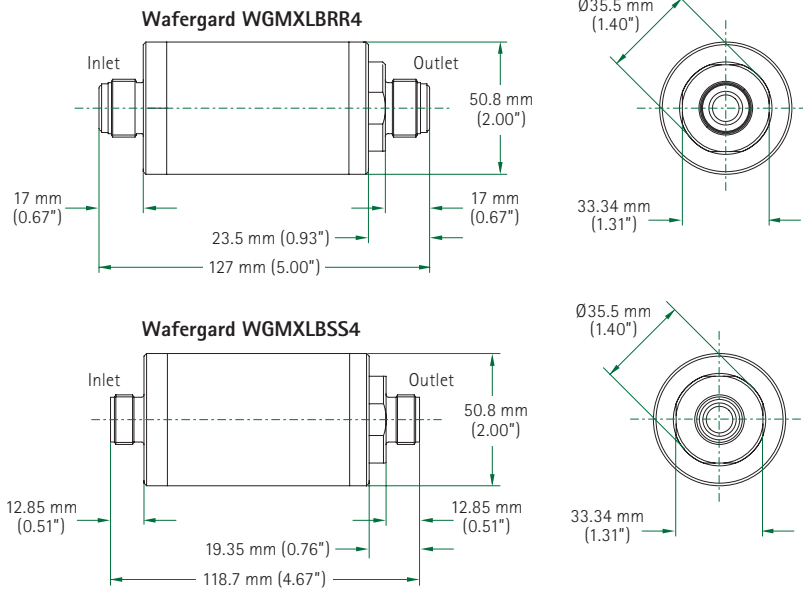
Features and Benefits

- Large filtration area
 - 3x larger filtration area than existing model (Wafergard MAX)
 - Low pressure drop and high flow
- Same length as current filter
 - Easy implementation without design changes of gas panel or delivery system
- Extended filter lifetime
 - 3x longer than existing model
 - Reduction of total cost of ownership (COO)

Specifications

Materials:	Membrane	Hydrophobic PTFE membrane supported by molded Teflon® PFA structures
	Housing	316L stainless steel
	O-ring	Encapsulated fluoroelastomer (E-FKM)
Surface finish interior:	≤25 µm Ra	
Removal rating:	≥99.9999999% removal of ≥0.003 µm particles in gas	
Downstream cleanliness:	<0.03 particles/liter (<1 particle/ft ³) >0.01 µm	
Maximum operating conditions:	Maximum inlet pressure	9.8 bar (142 PSIG)
	Maximum forward differential pressure	3.9 bar (57 PSID)
	Maximum reverse differential pressure	2.5 bar (36 PSID)
	Maximum operating temperature	120°C (248°F)
Helium leak rating:	1 × 10 ⁻¹⁰ Pa.m ³ /sec	
Warranty:	1 year	

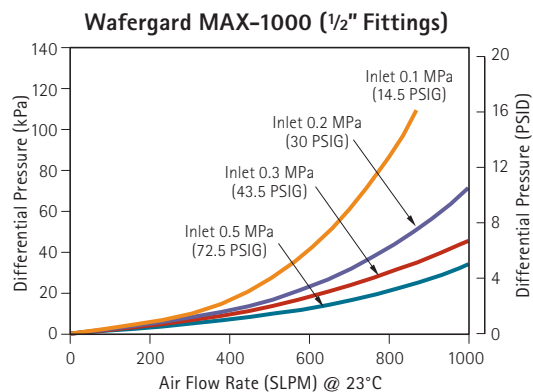
Dimensions



Ordering Information

Part Number	Description	Overall Length
WGMXLBRR4	Wafergard MAX-1000 in-line gas filter, 1/2" gasket seal (1/2" VCR® compatible), male inlet/outlet	127 mm (5.00")
WGMXLBSS4	Wafergard MAX-1000 in-line gas filter, 1/2" compression seal (1/2" Swagelok® compatible), male inlet/outlet	118.7 mm (4.67")

Performance Data



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.

Terms and Conditions of Sale

All purchases are subject to Entegris' "Terms and Conditions of Sale." To view and print this information, visit Entegris' website 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.
Teflon® is a registered trademark of E.I. du Pont de Nemours and Company.
VCR® and Swagelok® are registered trademarks of Swagelok Company.

ENTEGRIS, INC.

Corporate Headquarters | 129 Concord Road | Billerica, MA 01821 USA
Customer Service Tel. +1 952 556 4181 | Customer Service Fax +1 952 556 8022
In North America 800 394 4083 | www.entegris.com