Wafergard® IV HF Mini In-line Gas Filters

Superior particulate filtration for ultrapure and corrosive gas system filtration

Wafergard® IV alloy-22 (commonly referred to by the brand name HASTELLOY® C-22® alloy) filters are the cleanest, most efficient all-metal filters available for corrosive and ultrapure environments. The alloy-22 membrane offers the most inert and reactive gas* compatibility in the Entegris Wafergard product line capable of filtering carbon monoxide, hydrogen bromide, chlorine, and other corrosive gases.

A state-of-the-art housing assembly eliminates outgassing by minimizing weld area. The all-metal construction is ideal for high-temperature and dynamic-pressure applications.

*Not recommended for use with O_3 gases.



- Ultrapure gas lines
- High-temperature applications
- New fab construction
- Dynamic-pressure applications
- Corrosive gases





FEATURES & BENEFITS

Superior chemical compatibility and corrosion resistance

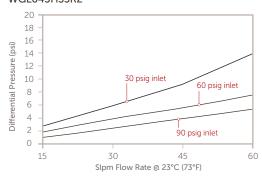
SPECIFICATIONS

Materials of construction	Filter element Sintered alloy-22 membrane filter		
	Housing	Electropolished VAR 316L stainless steel housing	
Downstream cleanliness	<0.03 particle/liter (<1 particle/ft 3) >0.01 μm at specified flow		
Removal rating	≥0.0015 µm		
Surface finish	≤5 µin Ra		
Helium leak rating	Qualified	2×10^{-10} atm cc/sec	
	Tested	1×10^{-9} atm cc/sec	
Operating conditions	•	Maximum inlet pressure: 172 bar (2500 psig) @ 20°C (68°F)	
		forward/reverse differential pressure: 300 psid) @ 20°C (68°F)	
	Maximum operating temperature: 450°C (842°F) – inert gases 100°C (212°F) – corrosive and reactive gases		
Warranty	5 year		
Particle retention	Greater than 99.9999% (6 LRV) removal of all particles at rated flow; referenced at the most penetrating particle size		
Flow rating	Refer to performance data		

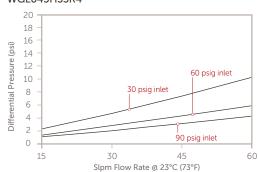
PERFORMANCE DATA

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Wafergard IV HF Mini 1/4" VCR® WGL045HS3R2

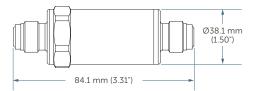


Wafergard IV HF Mini ½" VCR WGL045HS3R4

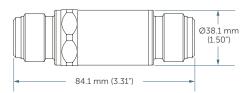


DIMENSIONS

WGL045HS3R2 1/4" Gasket Seal, Male Inlet/Outlet



WGL045HS3R4 1/2" Gasket Seal, Male Inlet/Outlet



ORDERING INFORMATION

Part number	Fitting options	Overall length
WGL045HS3R2	1/4" Gasket seal (compatible with VCR fitting), male inlet/outlet	84.1 mm (3.31")
WGL045HS3R4	1/2" Gasket seal (compatible with VCR fitting), male inlet/outlet	84.1 mm (3.31")

FOR MORE INFORMATION

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

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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

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