Wafergard[®] IV HF Mini In-line Gas Filters

Superior particulate filtration for ultrapure and corrosive gas systems

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 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.



Offers the most inert and reactive gas compatibility

APPLICATIONS

- Ultrapure gas lines
- High-temperature applications
- Dynamic-pressure applications
- New fab construction
- Corrosive gases *Not recommended for use with O_3 gases.

FEATURES & BENEFITS

Alloy-22 membrane	Offers the most inert and reactive gas compability in our Wafergard product line	
State-of-the-art housing assembly	Minimized weld area, eliminates outgassing	
Clean, all metal construction	Provides superior chemical compatibility and corrosion resistance	
	Ideal for high-temperature and dynamic-pressure applications	

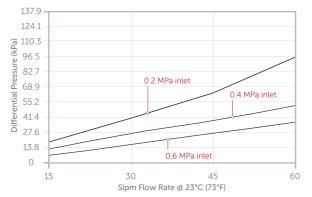


SPECIFICATIONS

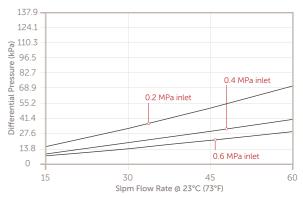
Materials	Filter element	Sintered alloy-22 membrane	
	Housing	Electropolished VAR 316L stainless steel	
Downstream cleanliness	<0.03 particles/liter (<1 particle/ft 3) >0.01 μm at specified flow		
Removal rating	≥0.0015 μm		
Surface finish interior	≤5 µin Ra		
Helium leak rating	Qualified	2×10^{-10} atm cc/sec	
	Tested	1×10^{-9} atm cc/sec	
Operating conditions	Maximum inlet pressure	17.2 MPa (2500 psig) @ 20°C (68°F)	
	Maximum forward/reverse differential pressure	0.8 MPa (120 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 99.9999999% (9 LRV) removal of all particles; referenced at the most penetrating particle size		
Flow rating	Refer to performance data		

PERFORMANCE DATA

Wafergard IV HF Mini ¼" VCR® WGL045HS3R2

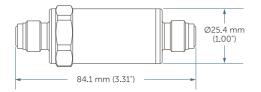


Wafergard IV HF Mini ¹/2" VCR WGL045HS3R4

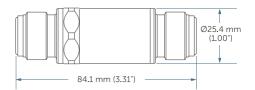


DIMENSIONS

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



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



ORDERING INFORMATION

PART NUMBER	FITTING SIZE AND TYPE	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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