

Wafergard® C2 1.125" C-seal Surface Mount Sandwich Gas Filters

All-metal ultrapure filter dramatically reduces footprint

The unique Wafergard® 1.125" C-Seal Surface Mount Sandwich filter provides the industry's best filter in a compact design for mounting directly between a device and a surface-mount block. This design eliminates dedicated filter space in the surface mount layout resulting in a major footprint reduction.

The C2 Sandwich filter provides a feedthrough for incoming gas to the device mounted above. Gas filtration is provided as the gas is returning from the above mounted device to allow for maximum protection of any downstream components.

The C2 Sandwich filter design provides ease of use that allows for a reduction of one substrate component from any new panel design. Plus, it can be used for added protection as a drop in filtration unit to any existing C-Seal gas stick.

The Entegris Wafergard product line provides ultimate purity, superior corrosion resistance, and excellent compatibility with inert, hydride and reactive gases.*

*Nickel filters are not recommended for use with CO, O₃ and low level hydride dopant gases.



APPLICATIONS

- Ultrapure gas lines
- High temperature applications
- Dynamic pressure applications

FEATURES & BENEFITS

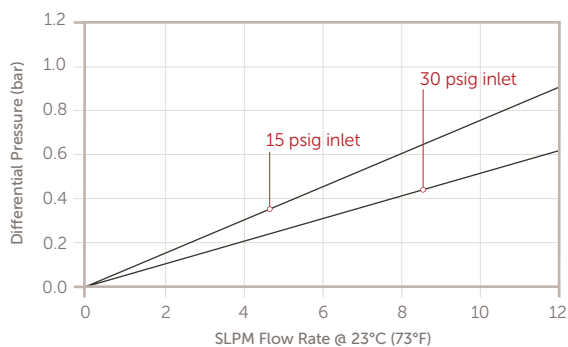
- Dramatically reduces component layout footprint
- High-efficiency small particle retention for superior downstream cleanliness; <0.03 particles/liter (<1 particle/ft³) greater than 0.01 µm
- Patented, sintered nickel membrane filters for less outgassing, greater corrosion resistance, and excellent chemical compatibility with most process gases

SPECIFICATIONS

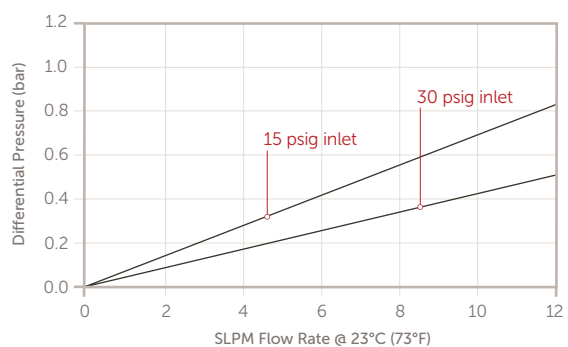
Materials of construction	Membrane	Patented, sintered nickel membrane or stainless steel membrane	
	Housing base block	316 L double-melt stainless steel electropolished, SEMI® F20	
	Helium leak rating	Qualified	2×10^{-10} cc/min.
		Tested	1×10^{-9} cc/min.
		Surface finish, interior	<5 μ m Ra
Performance	Downstream cleanliness	Particles	Less than 0.03 particles/Liter (<1 particle/ft ³) greater than 0.01 μ m
		Volatiles	Volatile outgassing of H ₂ O, O ₂ , and THC is below detectable limits (by RGA and FID at room temperature)
	Removal rating	>0.0015 μ m	
Operating conditions		Maximum inlet pressure:	
		6.9 MPa (68.9 bar, 1000 psi)	
		Maximum forward/reverse differential pressure:	
		0.86 MPa (8.6 bar; 125 psid)	
		Maximum operating temperature:	
		Inert gases: 400°C (752°F) @ 35 bar (500 psig)	
		Corrosive and reactive gases: 50°C (122°F) @ 35 bar (500 psig)	

PERFORMANCE DATA

Stainless Steel Filters



Nickel Filters



Part number	Description	Membrane material
SI2MSNFE05	Wafergard C2 1.125" C-seal Sandwich filter	Nickel
SI2MSSFE05	Wafergard C2 1.125" C-seal Sandwich filter	Stainless steel

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