



WAFERGARD® W-SEAL SURFACE-MOUNT GAS FILTERS

All-metal W-seal gas filters for ultrapure surface-mount applications

Overview

Wafergard® W-Seal Mini filters provide the industry's best filter in a surface-mount design. Available with stainless steel or nickel filter elements, the filters provide ultimate process protection, superior corrosion resistance and excellent compatibility with inert, hydride and reactive gases.*

Surface-mount gas filter designs consume less space on gas panels than standard in-line designs, while reducing parts inventories and variations.

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

Key Features

- Manufactured in a world-class, ISO 9001, cleanroom facility
- Superior corrosion resistance
- Excellent compatibility with inert, hydride and reactive gases
- Superior downstream cleanliness

Specifications

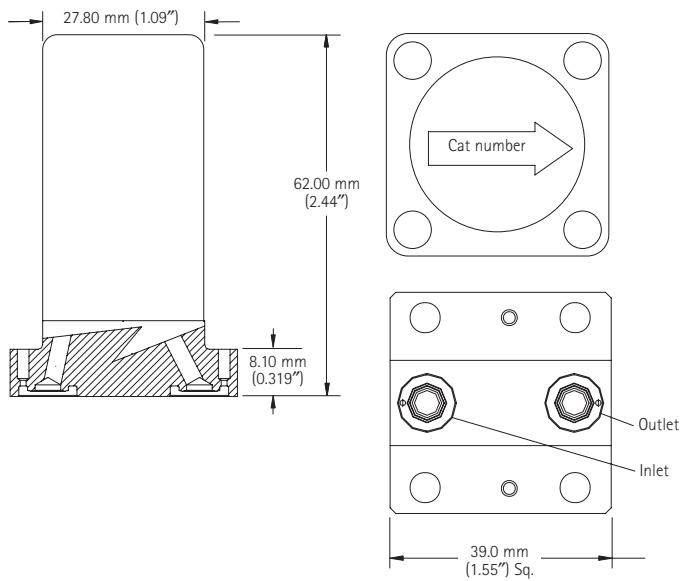
Materials:	Stainless steel membrane or patented, sintered nickel membrane	
	Housing, base block and end cap	316L double-melt stainless steel
Particle retention:	Nickel filters	Greater than 99.9999999% removal of all particles (referenced at the most penetrating particle size)
	Stainless steel filters	Greater than 99.9999% removal of all particles (referenced at the most penetrating particle size)
Downstream cleanliness:	Particles	Less than 0.03 particles/liter (<1 particle/ft ³) greater than 0.01 μm
	Volatiles	Volatile outgassing of H ₂ O, O ₂ and THC is below detectable limits (by RGA and FID at room temperature)
Operating conditions:	Maximum operating pressure	1 MPa (10 bar, 145 PSID)
	Maximum forward/reverse differential pressure	1 MPa (10 bar, 145 PSID)
	Maximum operating temperature	400°C (752°F)
Removal rating:	≥0.003 μm	
Surface finish interior:	≤5 μin Ra	
Helium leak rating:	Qualified	2 × 10 ⁻¹⁰ cc/min.
	Tested	1 × 10 ⁻⁹ cc/min.



Applications

- Ultrapure gas lines
- High-temperature applications
- Dynamic-pressure applications
- Stainless steel filters for inert, hydride and CO gases; nickel filters for inert and reactive gases

Dimensions



Ordering Information

Part Number	Description
WG2 S01 WW2	Wafergard® W-Seal Mini filter, stainless steel
WG3 SS1 WW2	Wafergard® W-Seal Mini filter, nickel

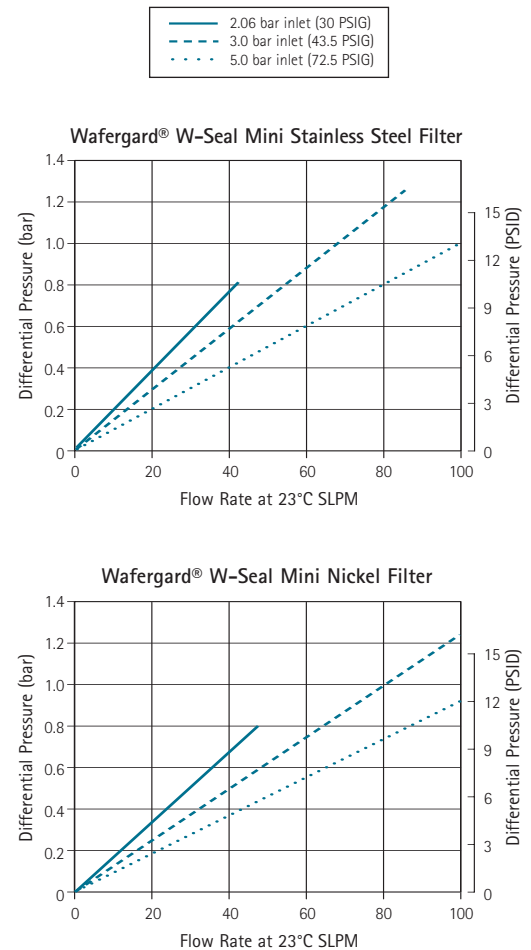
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Performance Data



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ENTEGRIS, INC.

Corporate Headquarters / 3500 Lyman Boulevard / Chaska, Minnesota 55318 USA
 Customer Service Tel. 952-556-4181 / Customer Service Fax 952-556-8022
www.entegris.com