



UNIGARD™ IN-LINE GAS FILTERS

Economical safeguard for system components

Overview

The Unigard™ filter is an all-in-one union and filter designed to fit in place of standard 1/4" gasket seal fittings in the gas distribution line. These filters protect sensitive gas components, such as mass flow controllers, regulators and valves from particle damage in applications up to 400°C. The Unigard filter is an economical safeguard against contamination that can have an adverse effect on critical components.

The Unigard filter has an all-metal construction, making it ideal for use in applications with high-temperature and dynamic-pressure requirements. The all-metal construction also eliminates outgassing and is corrosion resistant.



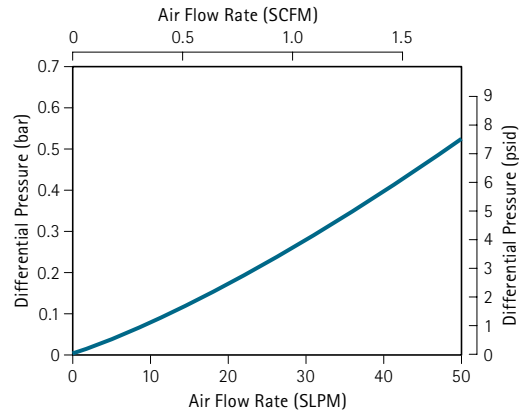
Features and Benefits

- All-metal construction is ideal for high-pressure and high-temperature applications
- Fits in place of standard 1/4" gasket seal fittings
- Space efficient for easy installation directly into the gas line
- Manufactured in a world-class, ISO-certified facility
- Protects critical components from particle damage

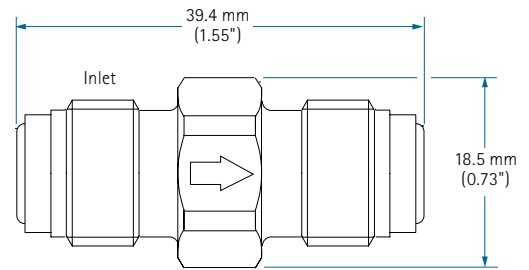
Specifications

| | | |
|--------------------------|---|-------------------------------|
| Materials: | Sintered 316L stainless steel filter media and housing | |
| Downstream cleanliness: | Less than 1 particle/liter greater than 0.17 μm with pulse pressure of 0 to 2.0 kg/cm ² | |
| Particle retention: | Greater than 90% removal of all particles larger than 1.0 μm diameter at flow rates up to 30 SLPM | |
| Housing design pressure: | 16.2 MPa (162 bar, 2300 psi) @ 23°C | |
| Surface finish interior: | $\leq 7 \mu\text{in Ra}$ | |
| Helium leak rating: | 9×10^{-9} atm cc/sec | |
| Operating conditions: | Maximum forward differential pressure | 10.4 MPa (104 bar, 1508 psid) |
| | Maximum reverse differential pressure | 5.1 MPa (51 bar, 739 psid) |
| | Maximum operating temperature | Inert gases: 400°C (752°F) |

Performance Data



Dimensions



Ordering Information

| Part Number | Description |
|-------------|---------------------------------------|
| WGPM SU RR2 | Unigard filter with 1/4" gasket seals |

For More Information

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