Contamination Control solutions

WAFERGARD® II SF 3XP IN-LINE GAS FILTERS

All stainless steel gas filters for ultra-high purity gas filtration
Overview

Wafergard® II SF 3XP Mini and Mini XL in-line gas filters for ultra-high purity (UHP), high-flow gas lines are all 316L stainless steel construction and are designed with 3x higher flow rate and 3-digit higher retention efficiency than similar filters. Designed for mid-range flow rates up to 500 SLPM and recommended filtration of UHP high-flow applications such as diffusion, annealing, epitaxy tools and connections.

Features and Benefits

- Optimized high-flow and high-retention 316L stainless steel filter element
  - 3x flow rate and 3-digit retention efficiency improvement over existing model
- Standard size
  - Ease of installation without design changes of gas panel or delivery system
- All 316L stainless steel construction
  - Filter of choice for high-purity gas systems
  - Excellent gas compatibility with most semiconductor gases
  - Ideal for high-temperature and dynamic pressure applications

Specifications

| Materials: | Membrane, housing | 316L stainless steel |
| Surface finish interior: | ≤5 μm Ra |
| Removal rating: | ≥99.99999% removal of ≥0.003 μm particles in gas @ 200 SLM |
| Downstream cleanliness: | Cleanliness <0.03 particles/L >0.01 μm |
| Operating conditions: | Maximum operating pressure 53 bar (768 PSIG) |
| | Maximum differential pressure 9.8 bar (142 PSIG) |
| | Maximum operating temperature 460°C (860°F) |
| Helium leak rating: | 9 × 10⁻¹⁰ Pam3/sec |
| Warranty: | 2 year |
Dimensions

**WG2S 3P1 RR2**

- 84.0 mm (3.31")
- 15.7 mm (0.62")
- 13.0 mm (0.51")
- 38.5 mm (1.52")
- 35.0 mm (1.38")
- 8.0 mm (0.31")
- 8.5 mm (0.33")
- 15.7 mm (0.62")

**WG2S 3P1 RR4**

- 94.0 mm (3.70")
- 19.0 mm (0.75")
- 13.0 mm (0.51")
- 38.5 mm (1.52")
- 35.0 mm (1.38")
- 8.0 mm (0.31")
- 19.0 mm (0.75")

**WG2S 3P2 RR2**

- 126.9 mm (5.00")
- 15.7 mm (0.62")
- 13.0 mm (0.51")
- 38.5 mm (1.52")
- 35.0 mm (1.38")
- 8.0 mm (0.31")
- 15.7 mm (0.62")

**WG2S 3P2 RR4**

- 133.5 mm (4.47")
- 19.0 mm (0.75")
- 13.0 mm (0.51")
- 38.5 mm (1.52")
- 35.0 mm (1.38")
- 8.0 mm (0.31")
- 19.0 mm (0.75")
Performance Data

For More Information

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit www.entegris.com and select the Customer Service link for the center nearest you.

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