Wafergard® SL 1.125" W-Seal Gas Filters

SurfaceLine™ filters provide the industry’s smallest surface-mount design

Wafergard® SL 1.125" W-seal gas filters provide the industry’s best filter in a surface-mount design. Surface-mount gas filters were designed to reduce the space on gas panels for standard in-line designs, while reducing the investment and increasing variations.

APPLICATIONS

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

FEATURES & BENEFITS

- All 316L stainless steel construction provides excellent chemical compatibility with most semiconductor process gases*
- Special cleaning technology and high temperature baking achieve superior initial cleanliness and enable rapid gas delivery startup
- High flow rate and low pressure drop characteristics are suitable for use with low vapor pressure gases
- High particle removal efficiency helps improve yield
- The SF Mini Plus filter has a compact, space-saving design with high flow rate characteristics equivalent to the SF Mini XL filter, making them ideal for use with both process and purge gases

*Not compatible for O₂
**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Materials</th>
<th>Membrane</th>
<th>316L stainless steel</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Housing</td>
<td>Low sulfur 316L stainless steel</td>
</tr>
<tr>
<td></td>
<td>End cap</td>
<td>Low sulfur 316L stainless steel</td>
</tr>
<tr>
<td></td>
<td>Base block</td>
<td>Low sulfur 316L stainless steel</td>
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</tbody>
</table>

**Internal surface finish**
≤7 μin Ra (Ra ≤0.17 μm)

**Particle retention**
Greater than 99.9999% removal ≥0.003 μm particles
(SF Mini @ 30 slm**, SF Mini Plus @ 50 slm, SF Mini XL @ 60 slm)

**Initial downstream cleanliness**
≤0.03 particles/Liter, ≥0.01 μm

**Connection**
1.125° W-seal surface mount

**Conditions**
- Design pressure:
  0.98 MPa @ 20°C (68°F)
- Maximum differential pressure:
  0.98 MPa @ 20°C (68°F)
- Maximum design temperature:
  120°C (248°F) – inert gases

**Helium leak rating**
Qualified 2 × 10^{-11} Pa·m³/sec
Tested 1 × 10^{-10} Pa·m³/sec

**(20°C, 101 kPa)**

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**DIMENSIONS**

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>Part number</th>
<th>Filter type</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGSLSFW1M</td>
<td>SF Mini</td>
<td>61 mm (2.40&quot;)</td>
</tr>
<tr>
<td>WGSLSHW1MP-T</td>
<td>SF Mini Plus</td>
<td>77 mm (3.03&quot;)</td>
</tr>
<tr>
<td>WGSLSFW1H</td>
<td>SF Mini XL</td>
<td>105 mm (4.13&quot;)</td>
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</tbody>
</table>

**20°C, 101 kPa**
FOR MORE INFORMATION

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