High-Purity, Inline Filter

Model 45G

Suited for use upstream of regulators, these filters protect the regulator from particulate contamination that can build up and eventually cause seat leakage and regulator failure. Model 45GB brass filters feature a sintered 316 Stainless Steel element that is easily removed for cleaning or replacement.

Model 45GS stainless steel filters have a pleated wire mesh element that is easily cleaned by flushing in the opposite direction to normal flow. They may also be used in ultra-high-purity gas systems.

Specifications

Model 45GB Brass

Operating Pressure:
3000 psig (207 bar) maximum

Dimensions
45GB10, 45GB5, 45GB1: 2-1/4" x 3/4" hex
45GB100FF, 45GB100MF: 3-9/16" x 1-1/4" hex

Operating Temperature Range:
3000 psig (207 bar):
-15°F to 100°F (-26°C to 38°C)
1500 psig (103 bar):
-15°F to 400°F at (-26°C to 204°C)

Model 45GS Stainless Steel

Operating Pressure:
6000 psig (414 bar) maximum

Operating Pressure:
6000 psig (414 bar) maximum

Dimensions:
45GS15 and 45GS2: 1-3/4" x 1" hex
45GS2MVC: 2-1/32" x 1" hex

Operating Temperature Range:
6000 psig (414 bar):
-20°F to 100°F (-9°C to 38°C)
3000 psig (207 bar):
-20°F to 900°F (-9°C to 482°C)

Pressure Drop to Atmosphere
(100 psi is the maximum differential pressure)

| Model | Flow Rate | Air
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>45GS15</td>
<td>10 psi @ 156 SLPM</td>
<td>air</td>
</tr>
<tr>
<td>45GS2</td>
<td>10 psi @ 140 SLPM</td>
<td>air</td>
</tr>
<tr>
<td>45GS2MVC</td>
<td>10 psi @ 140 SLPM</td>
<td>air</td>
</tr>
</tbody>
</table>

Materials of Construction

Model 45GB

Body: Brass bar stock
Seal: Viton®
Filter Element, Spring, and Gasket: 316 Stainless Steel

Model 45GS

Body: 316 Stainless Steel
Retainer Screens: 316 Stainless Steel
Pleated Mesh Filter Element: 316 Stainless Steel except 304 for the Model 45S15

Model 45G

<table>
<thead>
<tr>
<th>Connection</th>
<th>Flow Coefficient</th>
<th>Nominal Filtration Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inlet</td>
<td>Outlet</td>
<td>C</td>
</tr>
<tr>
<td>1/4&quot; NPT Female</td>
<td>1/4&quot; NPT Male</td>
<td>0.05</td>
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<tr>
<td>1/4&quot; NPT Female</td>
<td>1/4&quot; NPT Male</td>
<td>0.11</td>
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<tr>
<td>1/4&quot; NPT Female</td>
<td>1/4&quot; NPT Male</td>
<td>0.17</td>
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<tr>
<td>1/2&quot; NPT Female</td>
<td>1/2&quot; NPT Male</td>
<td>2.2</td>
</tr>
<tr>
<td>1/2&quot; NPT Male</td>
<td>1/2&quot; NPT Female</td>
<td>2.2</td>
</tr>
<tr>
<td>1/4&quot; NPT Female*</td>
<td>1/4&quot; NPT Male*</td>
<td>0.36</td>
</tr>
<tr>
<td>1/4&quot; Male VCR*</td>
<td>1/4&quot; Male VCR*</td>
<td>0.36</td>
</tr>
<tr>
<td>1/4&quot; NPT Female*</td>
<td>1/4&quot; NPT Male*</td>
<td>0.40</td>
</tr>
</tbody>
</table>

* Flow may be in either direction.