**Models SG6112, SG6113, SG6114**

High Pressure, High Purity, Stainless Steel In-Line Filters

These in-line filters have a pleated wire mesh element which is easily cleaned by flushing the filter in the opposite direction to normal flow. Flow may be in either direction. All metal welded construction makes these filters ideal for use in high purity and ultra high purity gas systems.

**Specifications**
- Maximum Operating Pressure: 6000 psig
- Operating Temperature Range:
  - -20°F to 100°F @ 6000 psig
  - -20°F to 900°F @ 3000 psig
- Maximum Differential Pressure: 100 psi
- Filtration Rating: See Table I
- Flow Coefficient (clean condition):
  - SG6112: Cv = 0.40
  - SG6113 and SG6114: Cv = 0.36
- Pressure Drop (to atmosphere):
  - SG6112:
    - 10 psi at 156 slpm Air
    - 50 psi at 433 slpm Air
    - 100 psi at 768 slpm Air
  - SG6113 and SG6114:
    - 10 psi at 140 slpm Air
    - 50 psi at 389 slpm Air
    - 100 psi at 691 slpm Air

**Inlet and Outlet Connections**: See Table I

**Materials of Construction**
- Body: Type 316 Stainless Steel
- Retainer Screens: Type 316 Stainless Steel
- Pleated Mesh Element:
  - SG6112: Type 316 Stn. Stl.
  - SG6113 and SG6114: Type 304 Stn. Stl.

**Dimensions**:
- SG6112 and SG6113: 1¼” x 1” hex
- SG6114: 2½” x 1” hex

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**SG6120 Series**

High Pressure, Brass In-Line Filters

These in-line filters feature a sintered 316 Stainless Steel element which is easily removed for cleaning or replacement.

The ¼” NPT female by male configuration makes these filters convenient for use upstream of pressure regulators. These filters will protect a regulator from particulate contamination which can build up and eventually cause seat leakage and regulator failure.

**Specifications**
- Maximum Operating Pressure: 3000 psig
- Operating Temperature Range:
  - -15°F to 100°F @ 3000 psig
  - -15°F to 400°F @ 1500 psig
- Filtration Rating: See Table I
- Flow Coefficient (clean condition):
  - SG6120: Cv = 0.17
  - SG6121: Cv = 0.11
  - SG6122: Cv = 0.05
  - SG6128: Cv = 2.2
  - SG6129: Cv = 2.2

**Dimensions**:
- SG6120, SG6121, SG6122:
  - 2¼” x ¾” hex
- SG6128, SG6129: 3¾” x 1¼” hex

**Inlet Connections**: See Table I

**Outlet Connections**: See Table I

**Materials of Construction**
- Body: Brass
- Spring, Element and Gasket: Type 316 Stainless Steel
- Seal: Viton®

**Table I**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Inlet and Outlet Connections</th>
<th>Nominal Filtration Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>SG6120</td>
<td>¼” NPT female by ¼” NPT male</td>
<td>10 micron</td>
</tr>
<tr>
<td>SG6121</td>
<td>¼” NPT female by ¼” NPT male</td>
<td>5 micron</td>
</tr>
<tr>
<td>SG6122</td>
<td>¼” NPT female by ¼” NPT male</td>
<td>1 micron</td>
</tr>
<tr>
<td>SG6128</td>
<td>½” NPT male by ½” NPT female</td>
<td>100 micron</td>
</tr>
<tr>
<td>SG6129</td>
<td>½” NPT female by ½” NPT female</td>
<td>100 micron</td>
</tr>
</tbody>
</table>