Compfil™ SF
Sintered Steel Sterile Filter for Gases, Liquids and Steam

The Compfil™ SF filter is designed for removal of particles from gases, liquids and steam. The SF consists of a regenerable isostatically pressed filter cylinder made from sintered stainless steel. The retention rate ranges from 1μm to 25μm.

Advantages
- Good durability against most liquids, aggressive gases and steam.
- The porosity level is more than 50%, ensuring high particle and dirt load capacity as well as a good flow rate at a low differential pressure.
- Regeneration by ultrasonic bath.

Applications
- Aseptic packing
- Electronics
- Pharmaceutical
- Food and beverages
- Fermentation
- Plastics
- Dairy
- Breweries
- Chemicals

Features and Benefits
- Filter media and end caps made of stainless steel
  Good durability against most liquids, gases and aggressive steam. Temperature range from -20°C (-4°F) up to 210°C (410°F).
- Retention rate of 1μm, 5μm and 25μm (98% efficiency for steam and 100% efficiency for gases)
  Exactly defined particle retention rate at given pore size.
- Sintered stainless steel filter medium with a porosity level of more than 50%
  High dirt holding capacity, good flow rate at low differential pressure.
- Regenerable with ultrasonic bath
  Filtration costs reduced to a minimum, in particular for high dirt load.
- Stainless steel sintering technology
  No use of additives or other chemical binders needed.
- Available in 13 sizes
  Optimum filter size for individual application.

World Class Filtration Solutions
Materials of Manufacture

Filter media   Sintered SS 1.4404
End caps      SS 1.4301
Bonding material Plastic Steel*
O-Rings       EPM as standard.
Silicone, Buna N, Viton®, FEP (Fluoraz) on request

* > 150°C (302°F) welded endcaps

Filtration surface

494 cm² per 10” element (10/30) (250 mm).

Temperature range

-20°C (-4°F) to 210°C (410°F).

Conversion factor for steam temperature

Steam temperature °C 110, 121, 140, 160
Steam temperature °F 212, 250, 285, 320
Conversion factor 0.5, 1, 2, 3

Dimensions

Absolute retention rate

1μm to 25μm

Max. differential pressure

5bar (73psi)

Flow rate of a 10” SF element - saturated steam 121°C

Flow rate of a 10” SF element - air (1 bar, 20°C)

<table>
<thead>
<tr>
<th>Element size (inch)</th>
<th>A (mm) (in)</th>
<th>B (mm) (in)</th>
<th>C Ø (mm) (in)</th>
<th>D Ø (mm) (in)</th>
<th>Correction factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>03/10</td>
<td>76mm (3&quot;)</td>
<td>12mm (0.47&quot;)</td>
<td>19mm (0.75&quot;)</td>
<td>42mm (1.6&quot;)</td>
<td>0.12</td>
</tr>
<tr>
<td>04/10</td>
<td>104mm (4&quot;)</td>
<td>12mm (0.47&quot;)</td>
<td>19mm (0.75&quot;)</td>
<td>42mm (1.6&quot;)</td>
<td>0.17</td>
</tr>
<tr>
<td>04/20</td>
<td>104mm (4&quot;)</td>
<td>14mm (0.55&quot;)</td>
<td>25mm (1&quot;)</td>
<td>52mm (2&quot;)</td>
<td>0.19</td>
</tr>
<tr>
<td>05/20</td>
<td>104mm (4&quot;)</td>
<td>14mm (0.55&quot;)</td>
<td>25mm (1&quot;)</td>
<td>52mm (2&quot;)</td>
<td>0.19</td>
</tr>
<tr>
<td>05/25</td>
<td>128mm (5&quot;)</td>
<td>14mm (0.55&quot;)</td>
<td>25mm (1&quot;)</td>
<td>62mm (2.5&quot;)</td>
<td>0.32</td>
</tr>
<tr>
<td>05/30</td>
<td>128mm (5&quot;)</td>
<td>16mm (0.62&quot;)</td>
<td>51mm (2&quot;)</td>
<td>86mm (3.4&quot;)</td>
<td>0.46</td>
</tr>
<tr>
<td>07/25</td>
<td>180mm (7&quot;)</td>
<td>14mm (0.55&quot;)</td>
<td>25mm (1&quot;)</td>
<td>62mm (2.5&quot;)</td>
<td>0.47</td>
</tr>
<tr>
<td>07/30</td>
<td>180mm (7&quot;)</td>
<td>16mm (0.62&quot;)</td>
<td>51mm (2&quot;)</td>
<td>86mm (3.4&quot;)</td>
<td>0.68</td>
</tr>
<tr>
<td>10/30</td>
<td>254mm (10&quot;)</td>
<td>16mm (0.62&quot;)</td>
<td>51mm (2&quot;)</td>
<td>86mm (3.4&quot;)</td>
<td>1.00</td>
</tr>
<tr>
<td>15/30</td>
<td>381mm (15&quot;)</td>
<td>16mm (0.62&quot;)</td>
<td>51mm (2&quot;)</td>
<td>86mm (3.4&quot;)</td>
<td>1.55</td>
</tr>
<tr>
<td>20/30</td>
<td>508mm (20&quot;)</td>
<td>16mm (0.62&quot;)</td>
<td>51mm (2&quot;)</td>
<td>86mm (3.4&quot;)</td>
<td>2.10</td>
</tr>
<tr>
<td>30/30</td>
<td>762mm (30&quot;)</td>
<td>16mm (0.62&quot;)</td>
<td>51mm (2&quot;)</td>
<td>86mm (3.4&quot;)</td>
<td>3.28</td>
</tr>
<tr>
<td>30/50</td>
<td>762mm (30&quot;)</td>
<td>16mm (0.62&quot;)</td>
<td>76mm (3&quot;)</td>
<td>140mm (5.5&quot;)</td>
<td>5.89</td>
</tr>
</tbody>
</table>