Porvair Filtration Group wide format (WF) filter cartridges are designed for applications requiring a very high flow rate. They are equally suitable for use as pre-filters or final polishing filters in applications that do not require membrane filtration. The use of a spacer mesh as an upstream pleat support means that fluid flow is uniform across the entire surface of the filter medium. The mesh holds the flow channels open thereby maximising dirt holding capacity and minimising pressure drop across the filter.

Our filter cartridges are absolute rated, tested to Beta 5000 using the industry standard single pass OSU-F2 test procedure with ISO 12103 part 1 A2 Fine and A4 Coarse test dust as appropriate.

Manufactured in the UK using all polypropylene hardware with glass fibre filter media, these filter cartridges have excellent chemical compatibility.

Thermal bonded construction eliminates the requirement for adhesives, maintaining product integrity in demanding applications and minimising the level of extractables in the filtrate. All the materials conform to the relevant requirements of FDA CFR21 part 17.

Features and Benefits

- Absolute micron ratings to ensure consistent, repeatable performance.
- Inside to out flow ensures that contamination is collected inside the filter cartridge, for easy disposal.
- Manufactured in the UK.
- Large surface area, typically 5 metres per 40”, and pleat spacing mesh on the inner layer ensures low initial pressure drops and high dirt holding capacity, for extended service life.
- All polypropylene hardware with glass fibre filter media, thermally bonded, means wide chemical compatibility and a minimum level of extractables.
- Suitable for steam sterilisation, autoclaving and hot water sanitisation.
- Available in 20”, 40” and 60” lengths to retrofit into most existing installations.
Specifications

**Materials of Manufacture**
- Filter medium: Glass fibre
- Drainage layers: Polypropylene
- Support mesh: Polypropylene
- Outer core: Polypropylene
- End caps: Polypropylene

**Cartridge Dimensions**
- Outside diameter: 154mm (6”)
- Inside diameter: 75mm (3”)
- Length:
  - 508mm (20”)
  - 1016mm (40”)
  - 1524mm (60”)

**Pore Sizes**
- 0.5µm, 1.0µm, 5.0µm and 10µm

**Effective Filtration Area**

<table>
<thead>
<tr>
<th>Absolute Rating</th>
<th>Effective Filtration Area (each 1016mm (40”) module)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.45, 1, 5, 10, 25, 50</td>
<td>0.63 and 100µm</td>
</tr>
<tr>
<td>5m² (53.88ft²)</td>
<td></td>
</tr>
</tbody>
</table>

**Gasket and O-Rings**
- EPDM, FEP encapsulated, Silicone, Viton® and Nitrile

**Maximum Differential Pressure**
- Normal Flow direction at:
  - 20°C (68°F): 3.5bar (51psi)
  - 65°C (149°F): 1.8bar (26psi)
  - 80°C (176°F): 1.0bar (15psi)
- Reverse flow is not recommended

**Clean Water Flow Rates**

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