Profile Star TF Filters

A pleated depth filter designed specifically for particle trap filtration in beer.

Description

This 'Pall' 'Profile' Star TF filter has been designed specifically for use as a particle trap filter to remove filter aid particles from bright beer. The filter utilises the proven and successful Pall technique of varying the fibre diameter to produce a pore size gradient from coarse (upstream) to fine (downstream), while maintaining a high open area throughout the depth of the filter medium.

This proprietary construction has been optimised to deliver the benefits of both traditional pleated and depth style trap filters - the ideal combination.

Features and Benefits

- Construction optimised for consistent performance under variation in flow or $\Delta P$ increase
- Filter medium designed to prevent fibre migration into the filtered beer
- Very high contaminant holding capacity
- Designed for reverse flow cleaning to optimise filter service life
- All polypropylene construction
- No surfactants or binder resins used in manufacture
- Consistent and verifiable filtration performance
- Long service life, low filtration costs
- High flow rates
- Excellent resistance to typical brewery use chemicals
- Continuous construction without side seam for durability and security of use
- Extra security provided by bayonet lock and double 'o'ring seal
- All materials meet the requirements for biological safety tests per USP for class VI plastic at 121°C
### Technical Information

**Materials of Construction**

<table>
<thead>
<tr>
<th>Component</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filter Media</td>
<td>Polypropylene</td>
</tr>
<tr>
<td>Core and Cage</td>
<td>Polypropylene</td>
</tr>
<tr>
<td>Endcaps</td>
<td>Polypropylene</td>
</tr>
<tr>
<td>O-rings</td>
<td>Ethylene Propylene Rubber</td>
</tr>
</tbody>
</table>

**Operating Characteristics**

<table>
<thead>
<tr>
<th>Operating Temperatures and Pressures</th>
<th>Differential Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Operating Temperature</td>
<td>Maximum Differential Pressure</td>
</tr>
<tr>
<td>80°C</td>
<td>3.4 bar</td>
</tr>
<tr>
<td>50°C</td>
<td>5.0 bar</td>
</tr>
</tbody>
</table>

*In fluids which do not soften, swell or adversely affect the filter or materials of construction.*

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### Ordering Information

- **Pall Part number:** A B TF J P
- **Code** | **Nominal length**
  - 1 | 254mm
  - 2 | 508mm
  - 3 | 762mm
  - 4 | 1016mm

- **Adaptor Style:** Bayonet lock with double O-ring seal
- **Seal Material:** Ethylene Polypropylene Rubber

**Liquid Flow vs. Differential Pressure**

- **Note:** Differential pressures are for liquids with a viscosity of 1 centipoise (cP).
- For cartridges of 508mm, 762mm, 1016mm nominal length, divide the differential pressure by 2, 3 and 4 respectively. To obtain the total pressure drop of a complete filter assembly the housing pressure drop must be added. Please refer to the relevant housing literature or contact Pall.

**Recommended flow rate for sizing 12hl/hr per 10”module**

**Further information is available in the Pall ‘Particle Filtration of Beer’ brochure**

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**Food and Beverage**

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Because of developments in technology these data or procedures may be subject to change. Consequently we advise users to review their continuing validity annually.

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Polypropylene

Ethylene Polypropylene Rubber