Filter cartridge
amaPure FS

1. Introduction

The amaPure FS is manufactured using stringent standards creating a high quality melt blown filter cartridge. The combination of very fine fibres for selectivity and coarser fibres for extra stability creates an extra special depth filter medium with true pore gradient structure. The amaPure FS is suitable for use in food and beverage applications and many others.
2. Features

- Gradient pore structure
- All polypropylene material
- Rated at 90% efficiency
- Excellent chemical compatibility
- Low pressure drop
- High dirt holding capacity
- FDA listed materials
- Rigid structure
- Proprietary centre core for greater strength
- No surfactants, binders or adhesives

3. Sanitation and Food safety

Sanitisation
The cartridges can be sanitised with hot water at max. 82 °C. Before use the cartridges must be cooled down to the normal operating temperatures. The cartridges can be sanitised with the standard chemical agents.

Food safety
The filter cartridges comply with the requirements of the 'Food and Drug Administration (FDA)' title 21 of the "Code of Federal Regulations" 177.1520.

Bio safety
The components of the filter cartridges (excl. O-rings and gaskets) pass the USP Biological Reactivity and Chemical-Physical tests for CLASS VI plastics.

4. Product/Performance specifications

Filter medium : polypropylene
Support medium : polypropylene
Hardware : polypropylene
End cap seal : thermally bonded
Gaskets/O-rings : silicone, EPDM, Viton®, polyethylene (for X9)

Dimensions
External diameter : 63 mm
Length : see ordering information
Filtration area : 0.05 m²/10" cartridge

Maximum recommended differential pressure: 2.4 bar
Maximum operating temperature: 80 °C for continuous operation

5. Water flow rate for 10" cartridge

\[ y = \text{Clean pressure drop} \]
\[ x = \text{Flow rate} \]

6. Ordering code

**Example**

<table>
<thead>
<tr>
<th>Cartridge type</th>
<th>Micron rating [µm]</th>
<th>Nominal length [inch]</th>
<th>Hardware material</th>
<th>Cartridge style</th>
<th>O-Ring material</th>
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</thead>
<tbody>
<tr>
<td>Micron rating [µm]</td>
<td>Nominal length [inch]</td>
<td>Hardware material</td>
<td>Cartridge style</td>
<td>O-Ring material</td>
<td></td>
</tr>
<tr>
<td>0.5</td>
<td>4 (102 mm)</td>
<td>U=polypropylene</td>
<td>X0</td>
<td>S=Silicone</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>10 (254 mm)</td>
<td></td>
<td>X3</td>
<td>V=Viton®</td>
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<tr>
<td>3</td>
<td>20 (508 mm)</td>
<td></td>
<td>X7</td>
<td>E=EPDM</td>
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<tr>
<td>5</td>
<td>30 (762 mm)</td>
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<td>X8</td>
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<tr>
<td>10</td>
<td>40 (1016 mm)</td>
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<td>X9</td>
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<td>75</td>
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</tbody>
</table>

X0=DOE, no gaskets, X3=SOE with external 222 O-rings, X7=SOE with fin end, bayonet and external 226 O-rings, X8=SOE with fin end and external 222 O-rings, X9=DOE with polyethylene soft gaskets

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