Filter Cartridge
amaGuard FP
Offshore

1. Introduction

The amaGuard FP is a glass fibre pleated filter cartridge, which has been specially made for the offshore industry, for the filtration of for example completion fluid or injection sea water. This filter cartridge uses a high quality microfibre glass filter medium, creating a high performance filter cartridge. The unique design and filter media ensures a high flow, low pressure drops and high dirt load capacity, resulting in economic filtration during its long service life. The amaGuard FP range of filter cartridges have been designed to work at a maximum temperature of 65 °C and a maximum recommended differential pressure of 2.5 bar. The filter media has been specifically designed and optimised to provide a high dirt holding capacity to enable longer service life with low differential pressure drops. The amaGuard FP range of filter cartridges offer the ideal solution for pre and final filtration of a wide variety of process fluids, giving a long service life at a cost effective level.
2. Features

- High capacities at low pressure drops
- Rated at 90% efficiency
- Colour coded polypropylene netting for easy micron rating identification
- Broad chemical compatibility

3. Colour coding

**Colour coding for PP Netting**
- Green : 0.2 micron
- Yellow : 0.45 micron
- White : 1 micron
- Blue : 3 micron

<table>
<thead>
<tr>
<th>Nominal and absolute particle retention [µm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cartridge type</td>
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<tr>
<td>----------------</td>
</tr>
<tr>
<td>FP0.2</td>
</tr>
<tr>
<td>FP0.45</td>
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<tr>
<td>FP1</td>
</tr>
<tr>
<td>FP3</td>
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<tr>
<td>FP10</td>
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4. Product/Performance specifications

Filter medium : microfibre glass  
Support medium : polyester  
Hardware : polypropylene  
Outer cage : polypropylene netting  
End cap seal : thermally bonded  
Gaskets/O-rings : Buna-N (standard), silicone  

**Dimensions**
- External diameter : 66 mm
- Length : 40”
- Maximum recommended differential pressure : 2.5 bar

5. Water flow rate for 10” cartridge

![Graph showing water flow rate](image)

$x$=Flow rate  
$y$=Clean pressure drop

6. Ordering code

<table>
<thead>
<tr>
<th>Example</th>
<th>amoGuard FP</th>
<th>3</th>
<th>40</th>
<th>U</th>
<th>X3</th>
<th>S</th>
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</thead>
<tbody>
<tr>
<td>Cartridge type</td>
<td>Micron rating [µm]</td>
<td>Nominal length [inch]</td>
<td>Hardware material</td>
<td>Cartridge style</td>
<td>O-Ring material</td>
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<tr>
<td>FP0.2</td>
<td>0.2</td>
<td>40 (1016 mm)</td>
<td>U=polypropylene (PP core and outer netting)</td>
<td>X3</td>
<td>N=Buna-N (standard)</td>
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</table>

X3=SOE with external 222 O-rings

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