1. Introduction

The amaGuard EP absolute rated pleated polypropylene filter cartridges are the result of years of experience in manufacturing filter cartridges. Because of the state of the art technology used in manufacturing the filter cartridges, the amaGuard EP offers you highly effective surface filtration at a very competitive price.
2. Features

- High quality non-woven meltblown polypropylene filter material
- Wide chemical compatibility
- > 99.9% efficiency from 1 to 80 micron
- Length available from 10 to 40 inch (others on request)
- Filter media meet the EU and FDA requirements for use in food and beverage applications

3. Food safety

Food safety
The filter cartridges comply with the EU regulation 1935/2004 and FDA 21CFR177 requirements for the use in food and beverage applications.

Hot water sanitisation with max. 80 °C

4. Product/Performance specifications

Filter medium: polypropylene
Support medium: polypropylene
Hardware: polypropylene (centre core, end caps and outer cage) stainless steel (304) core optional
End cap seal: thermally bonded
Gaskets/O-rings: EPDM, silicone, Viton® (food grade), Buna-N (non food grade), other materials on request

Dimensions
External diameter: 67 mm
Length: see ordering information
Filtration area: 0.55 m²/10" cartridge
Maximum recommended differential pressure: 2 bar
Maximum operating temperature: 65 °C (polypropylene core) 80 °C (stainless steel core)
Box quantity: 20 cartridges/box

5. Water flow rate for 10” cartridge

\[ x = \text{Flow rate (l/h)} \]
\[ y = \text{Clean pressure drop [bar]} \]

![Graph](image)
### 6. Ordering code

<table>
<thead>
<tr>
<th>Micron rating</th>
<th>1</th>
<th>3</th>
<th>5</th>
<th>10</th>
<th>20</th>
<th>30</th>
<th>50</th>
<th>80</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal length [inch]</td>
<td>10 (250 mm)</td>
<td>20 (500 mm)</td>
<td>30 (750 mm)</td>
<td>40 (1000 mm)</td>
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<tr>
<td>Hardware material</td>
<td>U polypropylene (core PP, end caps PP, outer cage hard PP)</td>
<td>A stainless steel 304 (core 304, end caps PP, outer cage hard PP)</td>
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<tr>
<td>Cartridge style</td>
<td>X3 SOE with external 222 O-rings - only with polypropylene end caps</td>
<td>X4 DOE with flat gaskets</td>
<td>X6 SOE with flat end, bayonet and external 226 O-rings</td>
<td>X7 SOE with fin end, bayonet and external 226 O-Rings - only with polypropylene end caps</td>
<td>X8 SOE with fin end and external 222 O-Rings - only with polypropylene end caps</td>
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<tr>
<td>O-Ring material</td>
<td>S Silicone</td>
<td>V Viton®</td>
<td>N Buna-N</td>
<td>E EPDM</td>
<td>T PTFE encapsulated silicone (SOE)/PTFE (DOE)</td>
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<tr>
<td>Packaging</td>
<td>1PK single packed in PE sleeve (standard)</td>
<td>1PKC single packed in PE sleeve and box</td>
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</tbody>
</table>

**amaGuard EP 01-20 U-X3 S-1PK** ordering example