1. Introduction

The amaGuard GP glass fibre pleated filter cartridge use high quality microfibre glass filter media creating a high performance filter cartridge. The unique design and filter media ensures a high flow, low pressure drops and high dirt load capacity. The amaGuard GP filter cartridge can be used for liquid as well as for gas applications.
2. Features

- High capacities at low pressure drops
- Rated at 99.9% efficiency
- Hard cage or colour coded polypropylene netting available for easy micron rating identification
- Broad chemical compatibility
- Stainless steel hardware available for the use at higher temperatures

3. Sterilisation and colour coding

Colour coding for PP netting (code UN and AAN)
- Green : 0.45 micron
- Yellow : 1 micron
- White : 2 micron
- Blue : 5 micron
- Red : 10 micron
- Purple : 30 micron
- Orange : 50 micron

4. Product/Performance specifications

Filter medium : microfibre glass
- polyester for 50 micron
Support medium : polyester
Centre core : polypropylene or stainless steel 304
End caps : polypropylene or stainless steel 304 (X4 only)
Outer cage : hard polypropylene or polypropylene netting
End cap seal : thermally bonded (stainless steel end caps are epoxy bonded)
Gaskets/O-rings : EPDM, silicone, Buna-N, Viton®, PTFE encapsulated silicone

Dimensions
- External diameter : 67 mm
- Length : see ordering information
- Filtration area : 0.4 m²/10” cartridge

Maximum recommended differential pressure
- Design : 5.2 bar at 20 °C/2.8 bar at 65 °C
- 2.0 bar at 80 °C
- Operating : 2.5 bar
Max operating temp.
- 65 °C (polypropylene core)
- 80 °C (stainless steel core with PP end caps)
- 120 °C (stainless steel core with stainless steel end caps)
Box quantity : 20 cartridges/box

5. Water flow rate for 10” cartridge

\[ x = \text{Flow rate [l/h]} \]
\[ y = \text{Clean pressure drop [bar]} \]
## 6. Ordering code

<table>
<thead>
<tr>
<th>Type</th>
<th>Micron rating</th>
<th>Nominal length [inch]</th>
<th>Hardware material</th>
<th>Cartridge style</th>
<th>O-Ring material</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>amaGuard GP</td>
<td>0.45</td>
<td></td>
<td>U polypropylene (core PP, end caps PP, outer cage hard PP)</td>
<td>X3 SOE with external 222 O-rings - only with polypropylene end caps</td>
<td>S Silicone</td>
<td>1PK single packed in PE sleeve (standard)</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>10 (250 mm)</td>
<td>UN polypropylene (core PP, end caps PP, outer cage PP netting)</td>
<td>X4 DOE with flat gaskets</td>
<td>V Viton®</td>
<td>1PKC single packed in PE sleeve and box</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>20 (500 mm)</td>
<td>A stainless steel 304 (core 304, end caps PP, outer cage hard PP)</td>
<td>X7 SOE with fin end, bayonet and external 226 O-Rings - only with polypropylene end caps</td>
<td>N Buna-N</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>30 (750 mm)</td>
<td>AAN stainless steel 304 (core 304, end caps 304, outer cage PP netting, epoxy bonding) X4 only</td>
<td>X8 SOE with fin end and external 222 O-Rings - only with polypropylene end caps</td>
<td>E EPDM</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>40 (1000 mm)</td>
<td></td>
<td></td>
<td>T PTFE encapsulated silicone (SOE)/PTFE (DOE)</td>
<td></td>
</tr>
</tbody>
</table>

**Packaging**

- 1PK single packed in PE sleeve (standard)
- 1PKC single packed in PE sleeve and box

**Example**

amaGuard GP 01- 10 U- X3 S- 1PK ordering example