1. Introduction

amaLloy metal filter cartridges are designed for the most extremem operating conditions like high severe temperatures or chemicals. The completely welded 316L stainless steel amaLloy is available in a pleated or cylindrical construction. Together with the different media types, the amaLloy offers you m excellent performance in the most extreme applications. The amaLloy is not only suitable for liquids but can also be used for many gas applications.
2. Features

- Cylindrical and pleated constructions available
- High differential pressures
- High chemical compatibility
- Resistant against high temperatures
- 316L FDA-approved material
- TiG welded construction
- Rated at 99.98% (beta ratio 5000) efficiency for stainless steel fibre and sintered powder
- Available with wide variety of end caps
- No extractables

3. Product specifications

| Filter medium | 316L stainless steel, sintered powder or wire mesh |
| Support medium | 316L stainless steel |
| Hardware | 316L stainless steel |
| Backflush cage | 316L stainless steel |
| Construction | TiG welded |
| Gasket/O-Rings | silicone, EPDM, Buna-N, Viton®, PTFE, PTFE encapsulated silicone, PTFE encapsulated Viton® |

Dimensions
- External diameter: 66 mm
- Length: see ordering information
- Filtration area: 0.05 m²/10" cylindrical cartridge, 0.13 m²/10" pleated cartridge

4. Performance specifications

Maximum recommended differential pressure
- Fibre and mesh: 25 bar for forward flow, 1 bar for reversed flow, 3 bar for reversed flow with back flush cage
- Sintered powder: 100 bar for forward flow, 50 bar for reversed flow
- Maximum operating temperature: 300 °C

Cleaning
The filter cartridges can be cleaned by means of reverse flow, ultrasonic bath, high temperature burnout or chemicals.

<table>
<thead>
<tr>
<th>Micron rating stainless steel fibre</th>
<th>Micron rating sintered powder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid 99.98%</td>
<td>Gas 99.98%</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>1.3</td>
</tr>
<tr>
<td>10</td>
<td>2.5</td>
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<td>15</td>
<td>4</td>
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<tr>
<td>20</td>
<td>5</td>
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<tr>
<td>30</td>
<td>8</td>
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<tr>
<td>40</td>
<td>10</td>
</tr>
<tr>
<td>60</td>
<td>15</td>
</tr>
</tbody>
</table>
5. Water flow rate

amaLloy CA 10” cartridge

amaLloy FA de 10”

amaLloy PA 10” cartridge

amaLloy LA 10” cartridge

amaLloy MA 10” cartridge

\[ x = \text{Flow rate} \]

\[ y = \text{Clean pressure drop} \]
6. Ordering code

**Example**

| amaLloy FA | 3 | 10 | S | X4 | S |

**Cartridge type**
- amaLloy CA=cylindrical fibre
- amaLloy FA=pleated fibre
- amaLloy LA=cylindrical mesh
- amaLloy MA=pleated mesh
- amaLloy PA=cylindrical powder

**Micron rating [µm]**
- fibre 3, 5, 10, 15, 20, 30, 40, 60
- mesh 3, 5, 10, 20, 40, 70, 100, 250, 450, 840
- powder 6, 10, 15, 30, 60

**Nominal length [inch]**
- 10 (250 mm)
- 20 (498 mm)
- 30 (745 mm)
- 40 (1012 mm)

**Hardware material**
- S=316L stainless steel

**Cartridge style**
- X3=SOE with external 222 O-rings
- X4=DOE with flat gaskets
- X7=SOE with fin end, bayonet and external 226 O-rings
- X8=SOE with fin end and external 222 O-rings
- X12=SOE with 1" NPT thread

**O-Ring material**
- S=Silicone
- N=Buna-N
- E=EPDM
- V=Viton®
- T=PTFE encapsulated silicone / PTFE flat gasket
- F=PTFE encapsulated Viton®

**Options**
- B=Backflush cage for amaLloy CA and amaLloy LA
  
  **Back flush cage is standard on pleated cartridges**