BME biological reduction
PES membrane filters

Efficient filtration of valuable liquids in food and industrial applications

BME filters provide efficient microbiological reduction for medium-duty and semi-critical applications. Its high dirt holding capacity enables an extended service life. Its filter media consist of a single layer asymmetric, hydrophilic PES membrane with support layers integrated into a robust cage with reinforced core and end cap, making it suitable for nearly all operation, service and cleaning conditions.

- Manufacturing acc. ISO 9001 in a controlled environment
- Comply with EU Regulation No. 1935/2004
- Materials used meet FDA title 21 and USP Class VI
- Full traceability

Key features:
- High flow and low pressure drop
- Wide chemical compatibility
- No pre-wetting required, easy to use
- Reinforced end cap

Applications:
- Microbiological reduction
- Water filtration
- Yeast reduction in beer and wine

Quality first:
- Manufacturing acc. ISO 9001 in a controlled environment
- Comply with EU Regulation No. 1935/2004
- Materials used meet FDA title 21 and USP Class VI
- Full traceability

Protecting process, products and people

Atlas Copco’s process filters optimize your productivity while protecting your process, product and consumers. Our portfolio of cartridges and housings covers all your filtration needs. The products are made from proven, high quality materials from reputable suppliers and manufactured in a controlled environment subjected to strict QA/QC procedures.
Technical specifications

Materials of construction
- Filter media: Asymmetric polyethersulphone membrane
- Support: Polypropylene
- Core/Cage: Polypropylene
- End caps: Polypropylene + reinforcement

Dimensions
- Diameter: 69 mm
- Typical surface area: 0.58 m² (69 mm - 10")

Operating conditions
- Max. temperature: 80°C
- Max. differential pressure forward flow: 4.0 bar @ 21°C / 2.4 bar @ 70°C
- Max. differential pressure reverse flow: 2.4 bar / 70°C
- Recommended change out differential pressure: 2.5 bar

SIP/CIP
- Steam sterilization: ≤ 100 cycles @ 121°C for 30 minutes @ dP 0.3 bar
- Hot water sanitization: 85°C for 30 minutes @ dP 2.0 bar
- Cleaning solution: 2% NaOH @ ≤ 65°C

Flow rate

Flow rate

Note: 10" cartridge tested with water @ 20°C, 1.005 cP (typical flow rate)

Product configuration

<table>
<thead>
<tr>
<th>Series</th>
<th>Rating</th>
<th>Length</th>
<th>End cap</th>
<th>Seal</th>
</tr>
</thead>
<tbody>
<tr>
<td>BME</td>
<td>0.22 µm</td>
<td>5&quot;</td>
<td>C2 = 2 x 226 O-ring + 2 tabs/Flat</td>
<td>S = Silicone</td>
</tr>
<tr>
<td></td>
<td>0.45 µm</td>
<td>10&quot;</td>
<td>C3 = 2 x 222 O-ring/Flat</td>
<td>E = EPDM</td>
</tr>
<tr>
<td></td>
<td>0.65 µm</td>
<td>20&quot;</td>
<td>C7 = 2 x 226 O-ring + 2 tabs/Fin</td>
<td>V = Viton</td>
</tr>
<tr>
<td></td>
<td>0.8 µm</td>
<td>30&quot;</td>
<td>C8 = 2 x 222 O-ring/Fin</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.2 µm</td>
<td>40&quot;</td>
<td>C28 = 2 x 222 O-ring + 3 tabs/Fin</td>
<td>DOE = Flat gasket/Flat + gasket</td>
</tr>
</tbody>
</table>

Example: BME 0.45 µm 5" C8 V