Eaton’s LOFMEM T membrane filter cartridges are suitable for gas/vent applications and the filtration of aggressive compounds. Specific uses include: strong acids/bases, compressed gases, photoresists, pharmaceutical intermediates, hot DI water and fermentation air.

LOFMEM T membrane filter cartridges offer precision filtration – even under harsh, corrosive environments. The polytetrafluoroethylene (PTFE) membrane with additional polypropylene support layers and components offer superior hydrophobicity and water intrusion resistance compared to PVDF-based media and are more economical than all fluorocarbon filters.

**Features and benefits**
- High flow rates and high surface area minimizes total system size requirements
- Full traceability marking
- Integrity testing and 100% flushing with 18 MΩ-cm de-ionized water prior to shipment
- Manufactured in ISO Class 7 Cleanroom Environment

**Technical data**
- **Nominal lengths**
  - 5", 9.75", 10", 20", 30", 40" (12.7, 24.8, 25.4, 50.8, 76.2, 101.6 cm)
- **Outside diameter**
  - 2.7" (6.9 cm)
- **Inside diameter**
  - 1" (2.54 cm)
- **Surface area**
  - 0.79 m² per 10" element
- **Max. operating temperature**
  - 95 °C
- **Max. differential pressures forward**
  - 5.2 bar @ 21 °C
  - 2.8 bar @ 80 °C
  - 1.0 bar @ 95 °C
- **Max. differential pressure reverse**
  - 2.8 bar @ 21 °C

**Design**
- **Filter material**
  - Teflon (PTFE) membrane
- **Inner core, cage, end caps**
  - Polypropylene
- **Support layers**
  - Polypropylene
- **O-rings**
  - Silicone (standard), Buna-N, EPDM, FPM, FEP encapsulated FPM

**Retention ratings**
- 0.05, 0.1, 0.2, 0.45, 1 μm
Performance specifications
Steam/autoclave
Filter cartridges will withstand at least 50 steam/autoclave 1 hour cycles @ 135°C

Integrity test values per 10” filter cartridge
Air Diffusion per 10-inch filter cartridge wet with 60/40 IPA/water. Contact Eaton for specific method.

<table>
<thead>
<tr>
<th>Pore size</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.05 µm:</td>
<td>≤ 50 cc/min @ 1.5 bar</td>
</tr>
<tr>
<td>0.1 µm:</td>
<td>≤ 50 cc/min @ 1.2 bar</td>
</tr>
<tr>
<td>0.2 µm:</td>
<td>≤ 20 cc/min @ 0.8 bar</td>
</tr>
<tr>
<td>0.45 µm:</td>
<td>≤ 15 cc/min @ 0.34 bar</td>
</tr>
<tr>
<td>1 µm:</td>
<td>≤ 15 cc/min @ 0.2 bar</td>
</tr>
</tbody>
</table>

Ordering code

<table>
<thead>
<tr>
<th>Nominal lengths</th>
<th>-5: 5”</th>
<th>-9: 9.75”</th>
<th>-10: 10”</th>
<th>-20: 20”</th>
<th>-30: 30”</th>
<th>-40: 40”</th>
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</thead>
<tbody>
<tr>
<td>LMT</td>
<td>-20</td>
<td>-0.2</td>
<td>-1</td>
<td>E</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Gaskets or O-rings
S: Silicone
B: Buna-N
E: EPDM
V: FPM
T: FEP encapsulated (O-rings only)

Adapter codes
-DDE: Double open end
-1: 226/Flat single open end
-2: 222/Fin single open end
-3: 226/Fin single open end
-4: 222/Flat single open end
-10: Double open end, internal O-rings
-20: Single open end, internal O-ring

For liquids other than water, multiply pressure drop by fluid viscosity in centipoise.

Request a Quote Today!