



LOFMEM™ T PTFE membrane filter cartridges

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

Design

Filter material
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

Technical data

Nominal lengths
10", 20", 30", 40"
(254, 508, 762, 1016 mm)

Outside diameter
2.7" (69 mm)

Inside diameter
1" (25.4 mm)

Surface area
8.5 ft² (0.79 m²) per 10" element

Max. operating temperature
203 °F (95 °C)

Max. differential pressures forward
75 psid @ 70 °F (5.2 bar @ 21 °C)
40 psid @ 176 °F (2.8 bar @ 80 °C)
15 psid @ 203 °F (1.0 bar @ 95 °C)

Max. differential pressure reverse
40 psid @ 70 °F (2.8 bar @ 21 °C)

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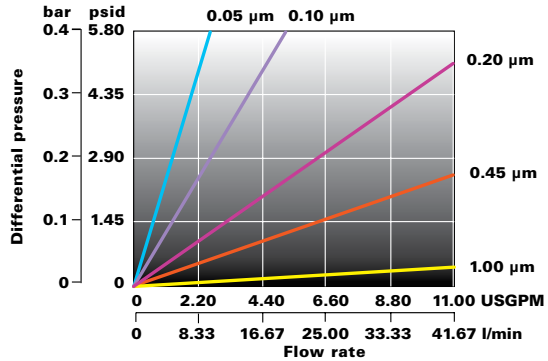
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Flow rate*

(68°F/20 °C per 10" filter cartridge for water)



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

Performance specifications

Steam/autoclave

Filter cartridges will withstand at least 50 steam/autoclave 1 hour cycles @ 275°F (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.

Pore size	Specification
0.05 µm:	≤ 50 cc/min @ 22 psig (1.5 bar)
0.1 µm:	≤ 50 cc/min @ 18 psig (1.2 bar)
0.2 µm:	≤ 20 cc/min @ 12 psig (0.8 bar)
0.45 µm:	≤ 15 cc/min @ 5 psig (0.34 bar)
1 µm:	≤ 15 cc/min @ 3 psig (0.2 bar)

Ordering code

