



## 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 ft<sup>2</sup> (0.79 m<sup>2</sup>) 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)

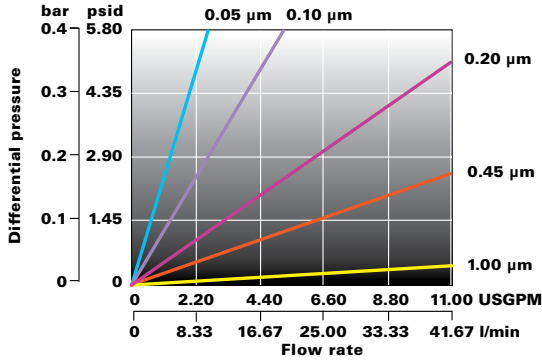


Powering Business Worldwide

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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

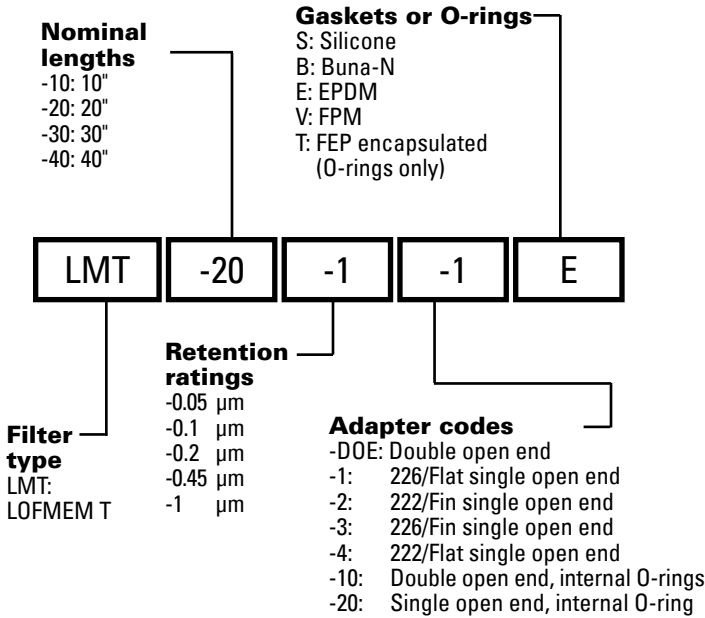
Filter cartridges will withstand at least 50 steam/autoclave 1 hour cycles @ 275 °F (135 °C)

### 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



**North America**  
44 Apple Street  
Tinton Falls, NJ 07724  
Toll Free: 800 656-3344  
(North America only)  
Tel: +1 732 212-4700

**Europe/Africa/Middle East**  
Auf der Heide 2  
53947 Nettersheim, Germany  
Tel: +49 2486 809-0

Friedensstraße 41  
68804 Altlußheim, Germany  
Tel: +49 6205 2094-0  
An den Nahewiesen 24  
55450 Langenlonsheim, Germany  
Tel: +49 6704 204-0

**China**  
No. 3, Lane 280,  
Linhong Road  
Changning District, 200335  
Shanghai, P.R. China  
Tel: +86 21 5200-0099

**Singapore**  
100G Pasir Panjang Road #07-08  
Singapore 118523  
Tel: +65 6825-1668

**Brazil**  
Rua Clark, 2061 - Macuco  
13279-400 - Valinhos, Brazil  
Tel: +55 11 3616-8400

For more information, please email us at [filtration@eaton.com](mailto:filtration@eaton.com) or visit [www.eaton.com/filtration](http://www.eaton.com/filtration)

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US  
EF-LMT  
05-2018