



Absolute Rated PTFE Membrane Filter Cartridges

“LOFTMEM-T cartridges from Eaton are ideal 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.”

The LOFTMEM-T filter offers precision filtration – even under harsh, corrosive environments. They are made with a polytetrafluoroethylene (PTFE) membrane with additional polypropylene support layers and components. The HIMA retentive PTFE membrane offers 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 minimise total system size requirements
- Full traceability marking

- Integrity testing and 100% flushing with 18 MΩ-cm de-ionized water prior to shipment
- Validated to USP Class VI biological Standards for Plastics
- Manufactured in ISO Class 7 Cleanroom Environment

Filter Specifications

Media

Gore-Tex® expanded PTFE membrane

Inner core, end caps, cage
Polypropylene

Support layers
Polypropylene

O-Rings

Buna-N, EPDM, Silicone, Viton®, FEP encapsulated Viton

Micron ratings

0.05; 0.1; 0.2; 0.45; 1 µm

Dimensions / Parameters

Nominal lengths

5"; 9.75"; 10"; 20"; 30"; 40"
(12.7; 24.8; 25.4; 50.8; 76.2; 101.6cm)

Outside diameter

2.7" (6.9 cm)

Inside diameter

1" (2.54 cm)

Surface area

0.79 m² (8.5 ft²) per 10 inch element

Max. operating temp

95°C (203°F)

Max. operating pressure

5.2 bar @ 21°C (75 psid @ 70°F)
2.8 bar @ 80°C (40 psid @ 176°F)
1.03 bar @ 95°C (15 psid @ 203°F)

Max. reverse differential pressure

2.8 bar @ 21°C (40 psid @ 70°F)



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Performance Specifications

Steam/Autoclave

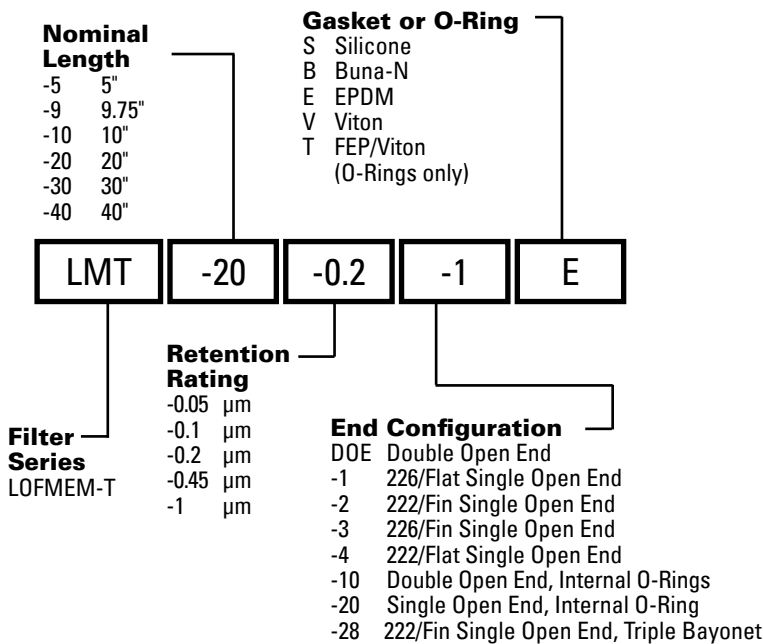
Cartridges will withstand at least 50 steam/autoclave 1 hour cycles @ 135°C (275°F)

Integrity Test Values

Air Diffusion per 10 inch cartridge wet with 60/40 IPA/water. Contact Eaton for specific method.

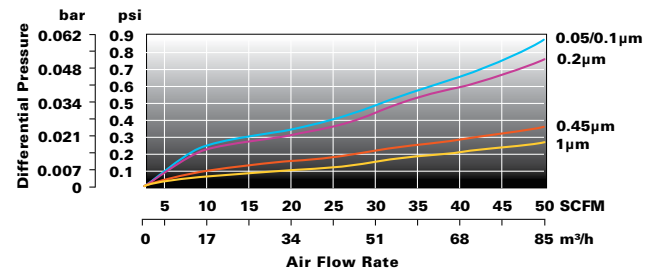
Pore Size	Specification
0.05 µm:	≤ 50 cc/min @ 1.5 bar (22 psig)
0.1 µm:	≤ 50 cc/min @ 1.2 bar (18 psig)
0.2 µm:	≤ 20 cc/min @ 0.8 bar (12 psig)
0.45 µm:	≤ 15 cc/min @ 0.34 bar (5 psig)
1 µm:	≤ 15 cc/min @ 0.2 bar (3 psig)

Filter Specification Code



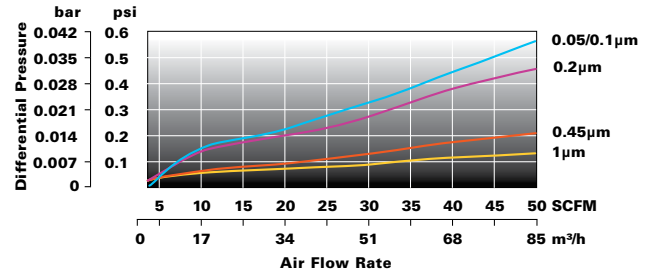
LOFMEM-T Air Flow Rate

System pressure at < 0.69 bar (< 10 psig) (vent), 18°C (65°F), outlet open to atmosphere



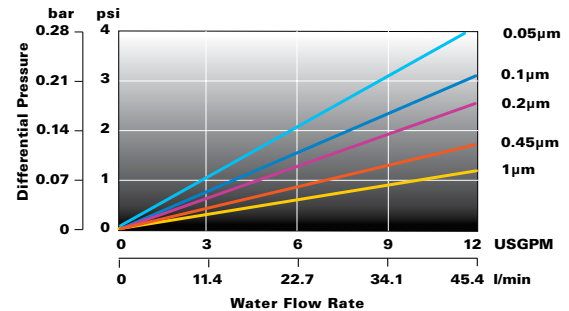
LOFMEM-T Air Flow Rate

System pressure at 2.07 bar (30 psig), 18°C (65°F)



LOFMEM-T Water Flow Rate

(21°C/70°F per 10" cartridge)



Eaton Technologies GmbH Hydraulics Group Filtration Division

Auf der Heide 2
53947 Nettersheim, Germany
tel.: +49 2486 809 0
fax: +49 2486 809 800
email: info-filtration@eaton.com
www.eaton.de/filtration

Eaton Technologies GmbH Hydraulics Group Filtration Division Bron branch

La Tour Sier
129 boulevard Pinel
69500 Bron, France
tel.: +33 4 72 78 84 50
fax: +33 4 78 74 43 07
email: info-filtration@eaton.com
www.eaton.com/filtration

Customer Service EMEA

Austria	tel.: 0800 29 36 89	fax: 0800 29 36 90
Belgium	tel.: 0800 77 0 22	fax: 0800 77 0 23
France	tel.: +33 4 72 78 84 50	fax: +33 4 78 74 43 07
Germany	tel.: +49 2486 809 400	fax: +49 2486 809 500
Italy	tel.: 800 78 58 83	fax: 800 78 58 84
Luxembourg	tel.: 800 2 42 98	fax: 800 2 42 99
Netherlands	tel.: 0800 0 22 27 03	fax: 0800 0 22 26 95
Spain	tel.: 900 98 49 15	fax: 900 98 49 14
UK	tel.: +44 1206 593 128	fax: +44 1206 593 129
Export	tel.: +49 2486 809 470	fax: +49 2486 809 570



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