



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 and hot DI water.

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.

Features and benefits

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

Specifications

Filter material
PTFE membrane

Inner core, cage, end caps
Polypropylene

Support layers
Polypropylene

Gaskets/O-rings
Silicone (standard), EPDM, FKM, FEP/FKM

Retention ratings
0.05, 0.10, 0.20, 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 mm)

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

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

Max. differential pressures forward
80 psid @ 70 °F (5.5 bar @ 21 °C)
40 psid @ 160 °F (2.8 bar @ 71 °C)

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



Powering Business Worldwide

LOFMEM T membrane filter cartridges

Performance specifications

Steam/autoclave

Filter cartridges will withstand at least 100 steam/autoclave 30 minutes cycles @ 275 °F (135 °C)

Integrity test values per 10" filter cartridge

Air Diffusion per 10-inch element 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)
0.10 µm:	≤ 50 cc/min @ 18 psig (1.2 bar)
0.20 µm:	≤ 35 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

Nominal lengths

-10: 10"
-20: 20"
-30: 30"
-40: 40"

Gaskets/O-rings

S: Silicone
E: EPDM
V: FKM
T: FEP/FKM
(O-rings only)

Option

W: Pre-wet



Filter type

LMT:
LOFMEM T

Retention ratings

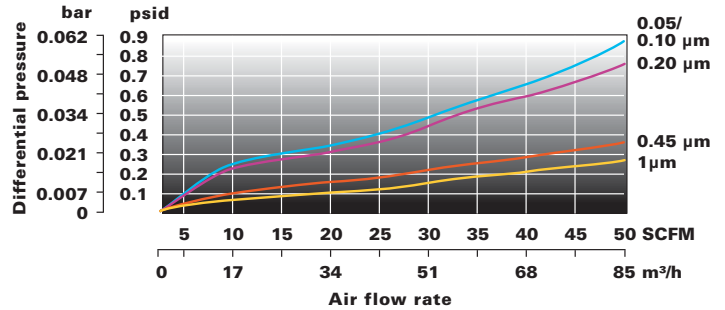
-0.05: 0,05 µm
-0.1: 0.10 µm
-0.2: 0.20 µm
-0.45: 0.45 µm
-1: 1 µm

Adapter codes

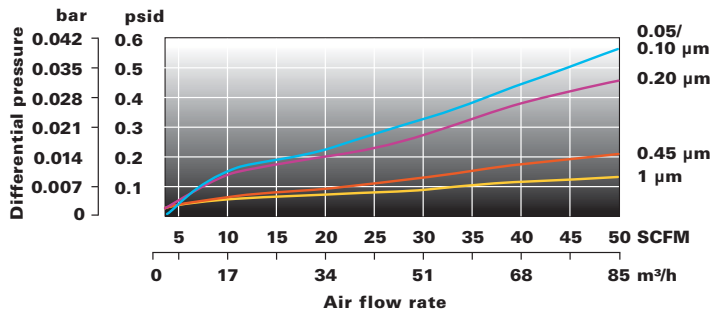
-DOE: Double open end
-1: SOE 226 O-rings, bayonet/flat
-2: SOE 222 O-rings, spear
-3: SOE 226 O-rings, bayonet/spear
-4: SOE 222 O-rings, flat

Flow rate*

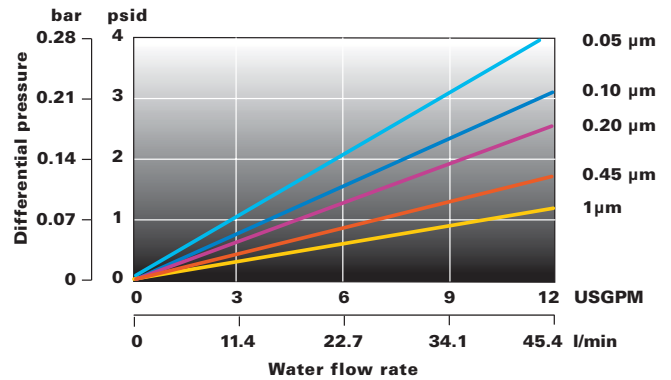
System pressure at <10 psig (<0.69 bar) (vent) 65°F (18°C), outlet open to atmosphere



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



70°F/21 °C per 10" element for water



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

North America

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

China

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

Europe/Africa/Middle East

Auf der Heide 2
53947 Nettersheim, Germany
Tel: +49 2486 809-0

Singapore

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

Friedensstraße 41
68804 Altlußheim, Germany
Tel: +49 6205 2094-0

An den Nahewiesen 24
55450 Langenlonsheim, Germany
Tel: +49 6704 204-0

Brazil

Av. Ermano Marchetti, 1435 -
Água Branca, São Paulo - SP,
05038-001, Brasil
Tel: +55 11 3616-8461

For more information, please
email us at filtration@eaton.com
or visit www.eaton.com/filtration

© 2020 Eaton. All rights reserved. All trademarks and registered trademarks are the property of their respective owners. All information and recommendations appearing in this brochure concerning the use of products described herein are based on tests believed to be reliable. However, it is the user's responsibility to determine the suitability for his own use of such products. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Eaton as to the effects of such use or the results to be obtained. Eaton assumes no liability arising out of the use by others of such products. Nor is the information herein to be construed as absolutely complete, since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.

US
EF-LMT
06-2020



Powering Business Worldwide

