

Pleated Polyethersulfone (PES) Membrane for Final Filtration of Wine & Beverages

“LOFMEM-B cartridges from Eaton are inherently hydrophilic and contain no added surfactants or wetting agents that could alter beverage taste. Perfect for processing beer, wine, bottled water, soft drinks and other beverages.”

The polyethersulfone membrane provides high contaminant capacity, superior flow rates and consistent removal of particles and microorganisms. The cartridges are highly compatible with the most rigorous sanitizing methods in the beverage industry. Reliability is further assured with the LOFMEM-B's integrity testable design.

Features and Benefits

- Manufactured in an ISO Class 7 cleanroom environment
- 100% flushed with 18 MΩ-cm DI water and integrity tested
- Meets USP Class VI Biological Test for Plastics
- All materials are FDA listed for food and beverage contact

- Repeatably steamable and sanitizable
- High retention (LVR>7) of yeast and other spoilage organisms
- Pore size, lot and serial number are stamped on each filter element for identification and traceability

Filter Specifications

Media

Asymmetric polyethersulfone membrane

Inner core, end caps, cage
Polypropylene

Support layers
Spunbond Polypropylene

Gaskets/O-Rings
Buna-N, EPDM, Silicone, Viton, Teflon encapsulated Viton O-Rings

Micron ratings
0.2 µm, 0.45 µm, 0.65 µm

Dimensions / Parameters

Nominal lengths

9.75", 10", 20", 30", 40"
(24.7, 25.4, 50.8, 76.2, 101.6 cm)

Outside diameter

2.7" (6.9 cm)

Inside diameter

1.0" (2.54 cm)

Surface area

7.6 ft². (0.7m²) per 10 inch element

Max. sustained operating temperature

180°F (82°C) at 20 psid (1.38 bar)

Max. differential pressure

60 psid @ 80°F (4.14bar @ 27°C)
30 psid @ 160°F (2.07 bar @ 71°C)
15 psid @ 200°F (1.03 bar @ 93°C)

Max. reverse differential pressure

40 psid @ 70°F (2.76 bar @ 21°C)

Recommended change-out pressure

35 psid (2.4 bar)



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Performance Specifications

Hot DI Water

Filter cartridge will withstand temperatures of 185°F (85°C) for up to 30 consecutive minutes.

Cleaning/Sanitization

Compatible with most common chemical cleaning, sanitizing and sterilizing agents and with pH range from 1–14. Consult factory for specific compatibility information.

Steam/Autoclave

Cartridges may be steamed or autoclaved for at least 50 half-hour cycles @ 275°F (135°C).

Typical Bacterial Retention Performance

Pore Size	Retention
0.2 µm:	LRV for <i>B. diminuta</i> ≥ 7.8
0.45 µm:	LRV for <i>S. marcescens</i> ≥ 8.5
0.65 µm:	LRV for <i>S. cerevisiae</i> ≥ 11 LRV for <i>L. brevis</i> ≥ 7.6

Integrity Test Specifications

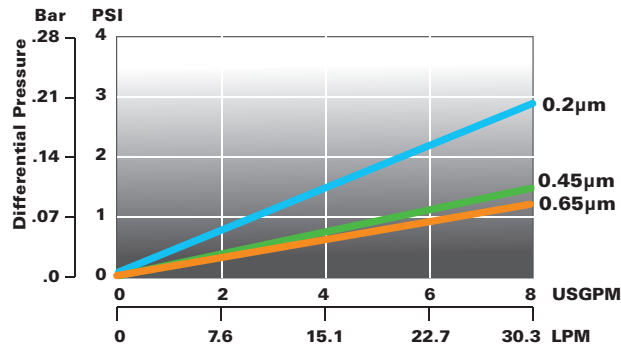
Minimum Bubble Point values and maximum Diffusive Air Flow (per 10-inch cartridge) values for LOFMEM-B filters wet with water:

Pore Size	Bubble Point	Diffusive Air Flow
0.2 µm:	≥ 38psig (2.6 bar)	≤ 35cc/min @ 30psig (2.1 bar)
0.45 µm:	≥ 25psig (1.7 bar)	≤ 35cc/min @ 20psig (1.4 bar)
0.65 µm:	≥ 18psig (1.2 bar)	≤ 35cc/min @ 15psig (1.0 bar)

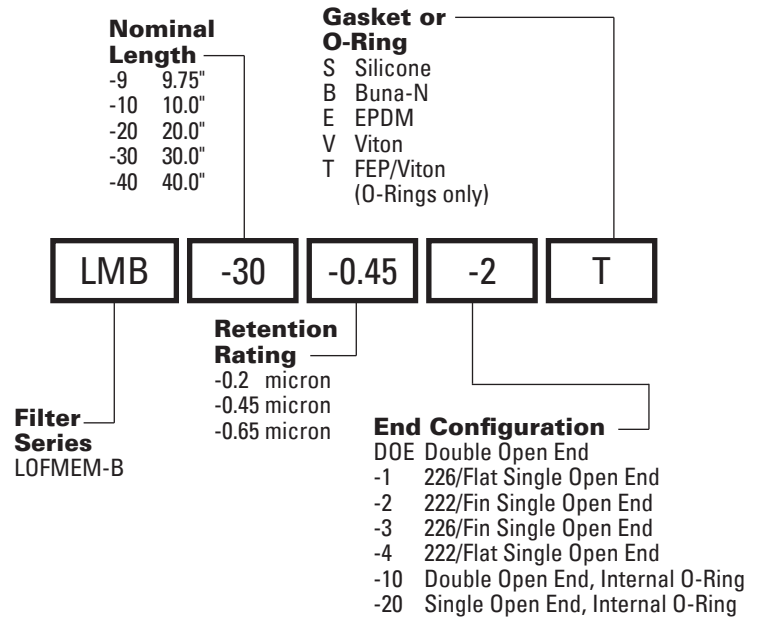
FDA Listed Materials

All materials comply with FDA title 21 of the Code of Federal Regulations Sections 174.5, as applicable for food and beverage contact.

LOFMEM-B Flow Rate (70°F / 21°C per 10" cartridge)



Filter Specification Code



Eaton North America — HQ

70 Wood Avenue, South
2nd Floor
Iselin, NJ 08830

Toll Free: (800) 656-3344
(North America only)

Voice: (732) 767-4200
Fax: (952) 906-3706

Eaton Brazil

Av. Julia Gaioli, 450 –
Bonsucesso
07250-270 – Guarulhos
Brazil

Voice: +55 (11) 6465-8780
Fax: +55 (11) 6480-2808

Eaton Europe/Africa/Middle East

Auf der Heide 2
53947 Nettersheim
Germany

Voice: +49-2486-809-0
Fax: +49-2486-809-800

Eaton China

No. 353 Riying Road North
W.G.Q. F.T.Z.
Pudong, Shanghai 200131
China

Voice: (86-21) 5866 6161-8000
Fax: (86-21) 5866 1238

Eaton Singapore

15 Changi Business Park Central 1
Level 3 Singapore 486057

Voice: +65 68251668
Fax: +65 68251639

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For more information,
please e-mail us at
filtration@eaton.com,
or call 732-767-4200.

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