



LOFMEM™ TFA

Fluoropolymer membrane filter cartridges

Eaton's LOFMEM TFA membrane filter cartridges are designed to resist the most severe chemical exposure environments, making them the preferred choice for demanding high temperature and chemical process applications. LOFMEM TFA is designed for use with strong acids, bases, organic chemicals and oxidizers.

LOFMEM TFA membrane filter cartridges are made of an absolute rated PTFE membrane combined with PTFE support layers and PFA hardware to create a fluoropolymer pleated cartridge filter suitable for use in the most demanding applications. LOFMEM TFA is manufactured without the use of adhesives or wetting agents, ensuring high purity in every application.

Features and benefits

- Superior chemical and thermal resistance
- All-thermal bonded construction, no adhesives
- No wetting agents
- Filters are flushed with 18 MΩ-cm DI water to ensure low extractables and low particle shedding

Specifications

Filter material
PTFE membrane

Inner core, cage, end caps
PFA

Support layers
PTFE

O-rings
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
7.9 ft² (0.73 m²)

Max. operating temperature
300°F (150°C)

Max. differential pressure
80 psid (5.5 bar) @ 24°C (75°F)
55 psid (3.8 bar) @ 75°C (167°F)
30 psid (2.1 bar) @ 125°C (257°F)
15 psid (1.0 bar) @ 150°C (300°F)

Max. differential pressure reverse
50 psid (3.5 bar) @ 24°C (75°F)
15 psid (1.0 bar) @ 121°C (250°F)

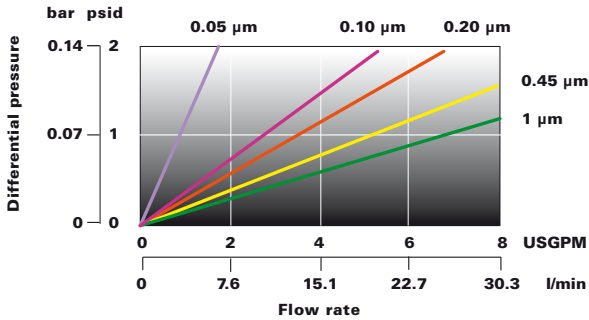


Powering Business Worldwide

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Flow rate*

(70°F/21 °C per 10" element for water)



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

Performance specifications

Integrity test values per 10" filter cartridge

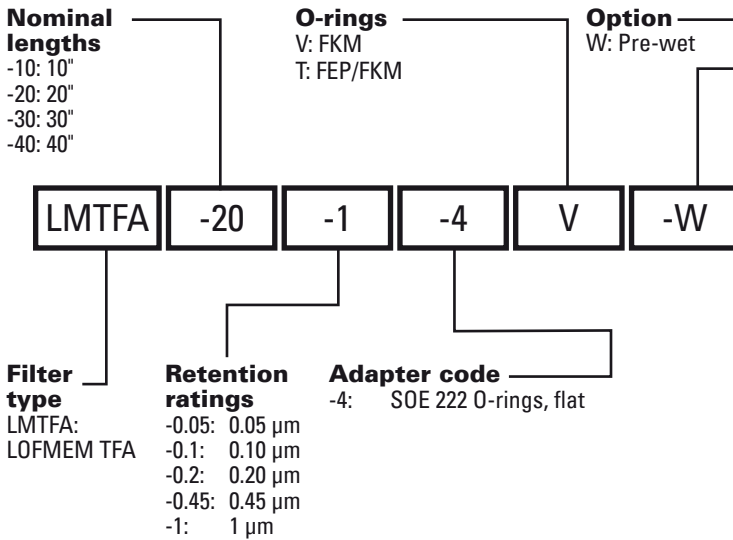
Air Diffusion per 10-inch filter cartridge wet with 60/40 IPA/water. Contact Eaton for specific method.

Pore size	Specification
0.05 µm	≤ 90 cc/min @ 22 psig (1.5 bar)
0.1 µm:	≤ 50 cc/min @ 18 psig (1.2 bar)
0.2 µm:	≤ 50 cc/min @ 12 psig (0.8 bar)
0.45 µm:	≤ 50 cc/min @ 5 psig (0.34 bar)
1 µm:	≤ 50 cc/min @ 3 psig (0.2 bar)

Rinse-Up Volumes

Resistivity rinse-up to 18 MΩ-cm	< 5 liters
Particle cleanliness	< 10 particles/ml > 0.1 µm
Extractable levels	< 25 ppb total in 5% HCl

Ordering code



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