



***Memtrex FE Capsule Filters (CMFE) consistently achieve absolute filtration with low extractables. Constructed using a 100% PTFE membrane, they are especially designed for reliable general chemical and air filtration.***

# Memtrex™ FE Capsules

with PTFE Membrane

## Features and Benefits

- > Ideal for aggressive chemicals, air and process gas filtration and vent uses
- > Highly hydrophobic membranes with low extractables
- > Individually integrity tested during manufacturing

## Applications

Memtrex FE Capsule Filters are specifically designed for chemical and vent filtration applications, including:

- > Acids, base, and oxidant filtration
- > Bulk chemical filtration
- > Sterile venting
- > Electronics grade chemical filtration
- > Process air and gas filtration

## Available Absolute Micron Ratings

0.1, 0.2, 0.45, and 1.0  $\mu\text{m}$

## Materials of Construction

- > Filtration Media — Hydrophobic Teflon (PTFE) Membrane
- > Membrane Support Layers — Polypropylene Microfiber
- > Structural Components — Polypropylene

## Dimensions

### Diameter

3.5" (9 cm)

Capsule Size	Effective Filtration Area	Length*
Small	0.8 ft <sup>2</sup> (748 cm <sup>2</sup> )	3.5 - 5.0" (9 - 13 cm)
Medium	3.0 ft <sup>2</sup> (2806 cm <sup>2</sup> )	7.6 - 9.1" (19 - 23 cm)
Large	5.9 (5500 cm <sup>2</sup> )	11.5 - 13.0" (29-33 cm)

\*Varies with connection style.

## Integrity Testing

Water intrusion is  $\leq 1.8$  cc/min per ft<sup>2</sup> of Effective Filtration Area

Micron Rating	Test Pressure
0.1 $\mu\text{m}$	40 psi (2.8 bar)
0.2 $\mu\text{m}$	30 psi (2.1 bar)
0.45 $\mu\text{m}$	20 psi (1.4 bar)
1.0 $\mu\text{m}$	5 psi (0.3 bar)

## Operational Limits

- > Maximum Operational Pressure  
80 psi (5.5 bar) @ 70°F (21°C) in Liquid,  
55 psi (3.8 bar) @ 70°F (21°C) in Gas
- > Maximum Differential Pressure  
60 psi (4.1 bar) @ 70°F (21°C)
- > Maximum Operating Temperature  
110°F (43°C) at  $\leq 30$  psi (2.1 bar) Operating Pressure

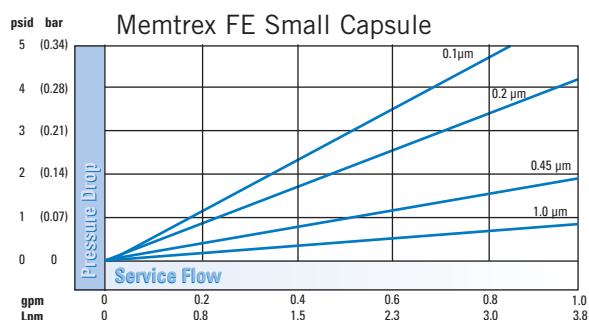
## Additional Information

Memtrex FE Capsule filters may be sanitized with a variety of commonly used chemical agents. The capsules may be repeatedly autoclaved (121°C 30 min) for up to 5 cycles.

GE certifies that the materials contained in its Memtrex FE Capsule filters meet U.S. FDA requirements for food contact under the applicable regulations in 21 CFR. For further information, contact the GE Technical Services Department. Memtrex FE filters meet the test criteria for USP class VI-121°C Plastics.

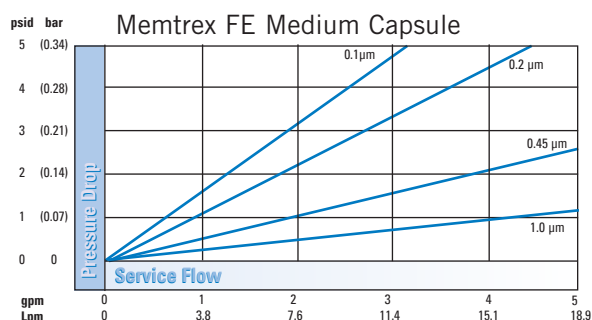
GE filter capsules are designed and manufactured for resistance to a wide range of chemical solutions. Conditions will vary with each application and users should carefully verify chemical compatibility. Please contact your GE distributor for more information.

## Flow Performance in Clean Water\*



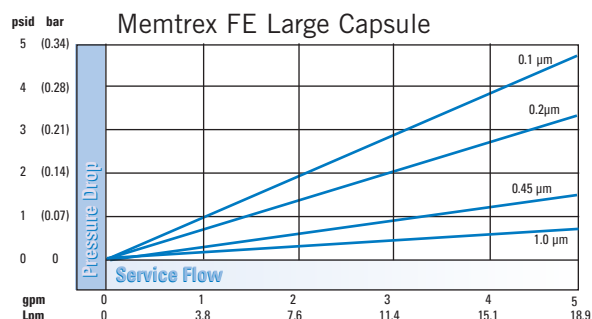
\*Data based on 10 inch length filter.

## Flow Performance in Clean Water\*



\*Data based on 10 inch length filter.

## Flow Performance in Clean Water\*



\*Data based on 10 inch length filter.

## Ordering Information

Type	Absolute Micron Rating	Capsule Size	Connections*
CMFE	91 = 0.1 $\mu\text{m}$ 92 = 0.2 $\mu\text{m}$ 94 = 0.45 $\mu\text{m}$ 01 = 1.0 $\mu\text{m}$	08 = small (0.8 ft <sup>2</sup> ) 30 = medium (3.0 ft <sup>2</sup> ) 59 = large (5.9 ft <sup>2</sup> )	L = 1/4" - 1/2" (6.3 - 12.7 mm) hose barb M = 3/8" (9.5 mm) hose barb R = 1/4" (6.3 mm) NPT male W = 1/2" (12.7 mm) NPT male Y = 1.5" (38.1 mm) sanitary flange

\*Choose an inlet and outlet connection.

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