



Memtrex MP Capsule Filters (CMMP) offer unique polyethersulfone membranes that exhibit both high throughputs and precise retention characteristics for superior performance in most applications. Additionally, CMMP filters are resistant to a broad range of chemicals and pH extremes. The DI water rinsed CMMP filters are the filtration solution to a wide variety of applications in the beverage, pharmaceutical, and electronics industries.

Memtrex™ MP Capsules

with Polyethersulfone Membrane

Features and Benefits

- > High throughput and precise retention characteristics
- > Broad chemical compatibility — ideal for filtration of acids, bases, and solvents
- > Individually integrity tested during manufacturing
- > Rinsed with DI water during manufacturing for improved cleanliness and rinse-up times
- > Low protein binding membrane suitable for biopharmaceutical processes

Applications

Memtrex MP Capsule Filters are specifically designed for filtration of process fluids in the beverage, pharmaceutical, and electronics industries, including applications such as:

- > Filtration of acids, bases, and oxidants
- > Filtration of serums and tissue culture media
- > Filtration of pharmaceutical intermediates
- > Filtration of fine inks and dyes
- > Point of use filtration for process water

Available Absolute Micron Ratings

0.1, 0.2, 0.45, and 0.65 µm

Materials of Construction

- > Filtration Media — Hydrophilic Polyethersulfone 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 ² (748 cm ²)	3.5 - 5.0" (9 - 13 cm)
Medium	3.0 ft ² (2806 cm ²)	7.6 - 9.1" (19 - 23 cm)
Large	5.9 (5500 cm ²)	11.5 - 13.0" (29-33 cm)

*Varies with connection style.

Integrity Testing

Air diffusion through water saturated membrane

Micron Rating	Test Pressure	Specification
0.1 µm	50 psi (3.4 bar)	≤5.6 cc/min per ft ² of EFA
0.2 µm	30 psi (2.1 bar)	≤2.4 cc/min per ft ² of EFA
0.45 µm	20 psi (1.4 bar)	≤2.0 cc/min per ft ² of EFA
0.65 µm	13 psi (0.9 bar)	≤1.5 cc/min per ft ² of EFA

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 ≤30 psi (2.1 bar) Operating Pressure

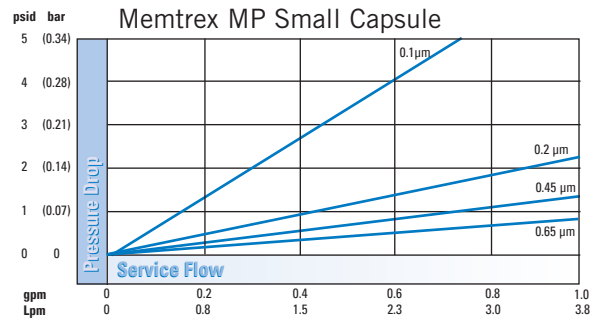
Additional Information

Memtrex MP 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 MP 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 MP filters meet the test criteria for USP class VI-121°C Plastics.

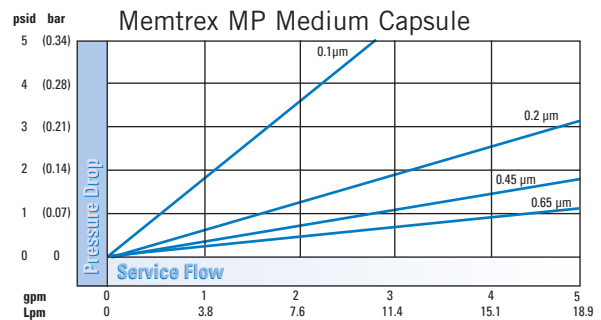
GE filter capsules are designed and manufactured for resistance to a wide range of chemical solutions. Conditions will vary with each application and users should carefully verify chemical compatibility. Please contact your GE distributor for more information.

Flow Performance in Clean Water*



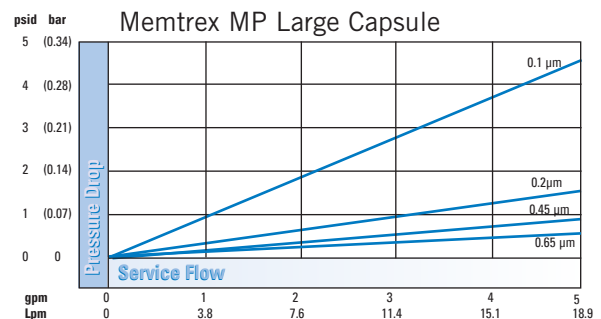
*Data based on 10 inch length filter.

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*
CMMP	91 = 0.1 µm	08 = small (0.8 ft ²)	L = 1/4" - 1/2" (6.3 - 12.7 mm) hose barb
	92 = 0.2 µm	30 = medium (3.0 ft ²)	M = 3/8" (9.5 mm) hose barb
	94 = 0.45 µm	59 = large (5.9 ft ²)	R = 1/4" (6.3 mm) NPT male
	96 = 0.65 µm		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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P/N 1225245 Rev. C

