

Memtrex™ MP-B

Pleated Filters with Polyethersulfone Membrane



Memtrex™ MP-B (MMP-B) filters are specifically designed for the beverage industry. Constructed with a polypropylene microfiber prefiltration layer combined with a unique polyethersulfone (PES) membrane, these filters offer extremely low protein-binding characteristics with high flow rates and throughput.

Features and Benefits

Memtrex MP-B (MMP-B) filters constructed with hydrophilic polyethersulfone membrane are specifically designed for beverage applications. MMP-B cartridge filters exhibit the low protein-binding, high flow rates and high throughputs that are crucial for today's demanding beverage processes. Constructed using thermal welding techniques, the MMP-B filters do not contain any adhesives or additives, and individual integrity testing assures that MMP-B filters meet the exacting performance requirements of our customers. You can rely on GE MMP-B filters to provide reliable filtration for all your beverage applications - bottled water, beer, wine, fruit juices, and fountain drinks.

The MMP-B filter is just one example of our strong commitment to the beverage industry. Our complete portfolio includes filters for every stage of processing, and we can offer custom solutions for your unique applications. GE is your complete source for filters, crossflow membranes, housing, and other filtration equipment.

Applications

Memtrex MP-B filters are specifically designed for beverage filtration. Typical applications include:

- > Final Filtration of Wine
- > Final Filtration of Beer
- > Final Filtration of Fruit Juices
- > Final Filtration of Bottled Water

Materials of Construction

- > Filtration Media — Hydrophilic Polyethersulfone Membrane
- > Prefiltration Media — Polypropylene Microfiber
- > Support Layers — Polypropylene Microfiber
- > Core and Cage — Polypropylene
- > Endcaps and Adapters — Polypropylene

Dimensions

Nominal O.D.	Nominal I.D.	Effective Filtration Area
2.75" (70 mm)	1.25" (31 mm)	6.6 ft ² (0.62 m ²)



Operational Limits

- > Maximum Forward Differential Pressure 60 psi (4.1 bar) @ 70°F (21°C)
- > Maximum Reverse Differential Pressure 30 psi (2.1 bar) @ 70°F (21°C)
- > Maximum Operating Temperature 180°F (82°C) at 10 psid (0.7 bar) in water

Available Absolute Micron Ratings

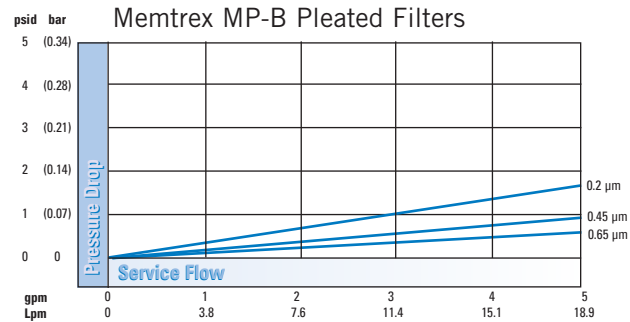
0.2, 0.45, and 0.65 µm

Integrity Testing

Air diffusion per 10" module after saturation with clean water.

Pore size rate	Specification
0.2 µm	≤ 19cc/min at 30 psi (2.07 bar)
0.45 µm	≤ 16cc/min at 20 psi (1.38 bar)
0.65 µm	≤ 12cc/min at 13 psi (0.90 bar)

Flow Performance in Clean Water*



*Data based on 10 inch length filter.

Additional Information

Memtrex MP-B filters may be autoclaved or in situ steam sterilized (up to 135°C, 30 minute cycles) for a maximum accumulated exposure of 10 hours. Alternatively, the filters may be sanitized with compatible chemical agents.

GE certifies that the materials contained in its Memtrex MP-B pleated 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-B filters meet the Test criteria for USP class VI-121°C Plastics.

Aqueous extracts from Memtrex MP-B filters contain less than 0.25 EU/ml. The filters typically exhibit low levels of non-volatile residues.

GE filter cartridges 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.

Ordering Information

Type	Absolute Micron Rating	Nominal Cartridge Length	End #1 Adapter	End #2 Adapter	Elastomer Material	Grade
MMP	92 = 0.2 µm	1 = 10 inch (25.4 cm)	A = Open End Gasket	A = Open End Gasket	B = Buna-N	B = Beverage
	94 = 0.45 µm	2 = 20 inch (50.8 cm)	B = 120 O-Ring	B = 120 O-Ring	E = EPDM	
	96 = 0.65 µm	3 = 30 inch (76 cm)	C = 213 O-Ring	C = 213 O-Ring	S = Silicone	
		4 = 40 inch (101.5 cm)	E = 222 O-Ring	C = 213 O-Ring	V = Viton*	
			F = 226 O-Ring	G = Closed End Cap		
			J = 020 O-Ring	H = Fin Adapter		
			Q = 222 O-Ring			
			Stainless Steel Insert			
			Z = 226 O-Ring			
			Stainless Steel Insert			

*Viton is a registered trademark of DuPont Dow Elastomers.

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