

# MP-B Pleated Filters



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

## ■ Features and Benefits

Memtrex-MP-B (MMP-B) filters offer a PES membrane 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 process. MMP-B filters provide for removal of cysts, mold, and serve as a reliable microbiological control. Every filter is 100% integrity tested. As industry standards rise and new precautions are taken to ensure product purity, you can rely on Osmonics MMP-B filters to provide reliable filtration for all your beverage applications—bottled water, beer, wine, liquor, 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 offer custom solutions for your unique applications. Osmonics is your complete source for filters, crossflow membranes, housings, 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

## ■ Available Absolute Pore Size Ratings

- 0.2, 0.45, and 0.65  $\mu\text{m}$

## ■ Materials of Construction

- Media.....Hydrophilic Polyethersulfone
- 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 <sup>2</sup> (0.62 m <sup>2</sup> )

## ■ Integrity Testing

Air diffusion per 10" module after saturation with clean water

Pore size rate	Specification
0.2 $\mu\text{m}$	$\leq$ 12cc/min at 30 psi (2.07 bar)
0.45 $\mu\text{m}$	$\leq$ 10cc/min at 20 psi (1.38 bar)
0.65 $\mu\text{m}$	$\leq$ 15cc/min at 13 psi (0.90 bar)

## ■ Operational Limits

- Maximum Forward Differential Pressure.....60 psi (4.14 bar)
- Maximum Reverse Differential Pressure.....30 psi (2.07 bar)
- Maximum Operating Temperature.....180°F (82°C) at 10 psid (0.69 bar) in water

## Sterilization

Memtrex-MP-B filters may be autoclaved (121°C, 30 minute cycles) or in situ steam sterilized (125°C, 30 minute cycles) for a maximum accumulated exposure of 10 hours. Alternatively, the filters may be sanitized with compatible chemical agents.

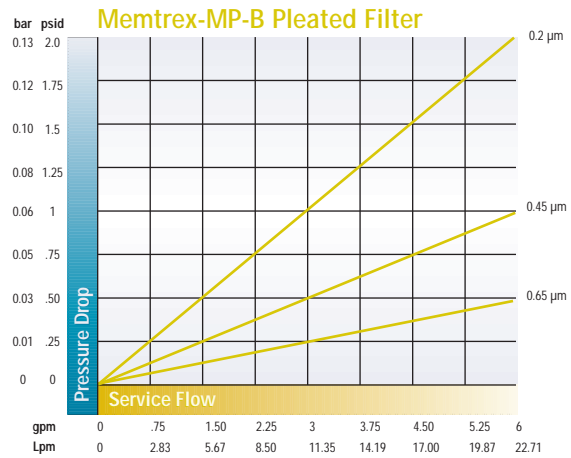
## Biosafety

The component materials of Memtrex-MP-B filters are suitable for use in articles intended for repeated food contact as specified in the United States Code of Federal Regulations, Title 21. Memtrex-MP-B filters meet the test criteria for USP24 class VI-121°C Plastics and pass the MEM Elution Cytotoxicity Test.

## Extractables

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

## Flow Performance in Clean Water



## Ordering Information

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

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### For More Information:

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