

# Memtrex MP-B Pleated Filters

FACT SHEET



Beverage-grade Pleated filter with polyethersulfone (PES) membrane (Added polypropylene pre-filtration layer)



## Typical Applications

- Beverage Grade
- Wine and Beer
- Fruit Juices
- Bottled Water
- Bioburden Reduction

## Features and Benefits

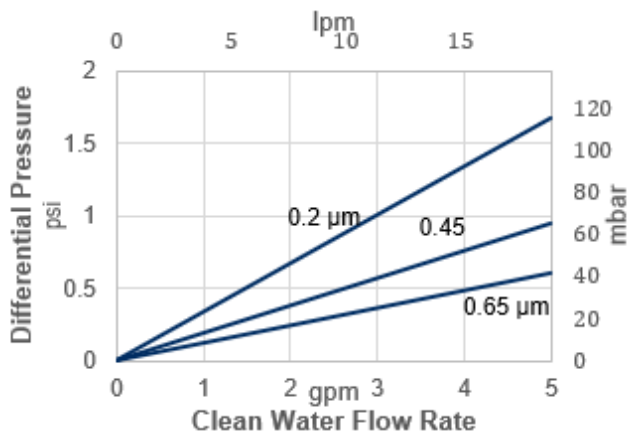
- Asymmetric, hydrophilic PES membrane media provides lower pressure drops, higher dirt holding, and broader particle size capture with absolute efficiency.
- Beverage-grade design with polypropylene prefiltration layer extends filter life in microbial stabilization, haze removal, and bioburden reduction applications.
- Extremely low protein binding and high flow rates deliver high throughput performance essential for demanding beverage processes.
- Thermally welded, adhesive-free construction ensures purity and structural integrity.
- Individually integrity tested filters confirm reliable particle retention and consistent performance.
- Etched serial numbers on every filter provide accurate traceability and quality assurance.

## Specifications

Table 1: Filter construction and operational limits

<b>Ratings</b>	0.2, 0.45, 0.65 microns (absolute)
<b>Inner Diameter</b>	1.25 in (3.2 cm)
<b>Outer Diameter</b>	2.75 in (7.0 cm)
<b>Lengths (nominal)</b>	10, 20, 30, 40 in
<b>Effective Filtration Area</b>	7.3 ft <sup>2</sup> (0.68 m <sup>2</sup> ) per 10 in length
<b>Materials of Construction</b>	
Filtration Media:	Asymmetric PES membrane
Pre-filtration Media:	Polypropylene Microfiber
Support Layers:	Polypropylene Microfiber
Core and Cage:	Polypropylene
Endcaps and adapters:	Polypropylene
<b>Performance Conditions</b>	
Flow:	Exterior to interior
Maximum forward differential pressure:	60 psid (4.1 bar) @ 70°F (21°C)
Maximum reverse differential pressure:	30 psid (2.1 bar) @ 70°F (21°C)
Maximum Operating Temperature:	180°F (82°C) at 10 psid (0.69 bar) in water

## Memtrex MP-B Pleated Filters



**Graph 1: Memtrex MP-B filter initial pressure drops across a 10 in filter in clean water**

## Integrity Test Specifications

**Table 2: Maximum allowable diffusive flow rate based on integrity testing performed on a ten inch cartridge**

Micron Rating	Diffusive Flow Rate
0.2 µm	< 30 cc/min at 19 psig (1.3 barg)
0.45 µm	< 20 cc/min at 16 psig (1.1 barg)
0.65 µm	< 20 cc/min at 16 psig (1.1 barg)

## Quality

Memtrex MP-B filters are manufactured under a quality management system. Each filter is etched with a lot number for its subassembly that enables tracing to a production date and shift. This lot number can also be found on the individual filter box label along with the filter description, part number, length, micron rating, seal type, part number, and manufacturing date. Each filter also comes with a certificate of Quality Assurance in the filter box containing additional information.

Memtrex MP-B filters may be autoclaved or in situ steam sterilized (up to 257°F [125°C] 30-minute cycles) for a maximum accumulated exposure of 10 hours. Alternatively, the filters may be sanitized with compatible chemical agents.

Confirmation of aqueous extract levels below 0.25 EU/mL may be available upon request, which could incur additional costs.

Veolia 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. Contact your Veolia representative for more information.

## Certifications

- Materials of construction meet FDA 21 CFR 177.2440 and 177.1520
- ISO 9001:2015 certified processes

## Directions for use

1. Follow site PPE, LOTO protocols, open housing
2. Store/dispose expired filters per local regulations
3. Lubricate gaskets on housing and filters as needed
4. Insert filters and close housing securely
5. Replace filter before max differential pressure

## Ordering Information

Replace the numbers with your desired values from each column of Table 3.

Example: [MMP921FHS-B](#)



**Table 3: Ordering information**

	1	2	3	4	5	6
Type	Micron Rating (absolute)	Cartridge Length	End #1 Adapter	End #2 Adapter	Elastomer Material	Grade
Memtrex MP = MMP	92 = 0.2 µm 94 = 0.45 µm 96 = 0.65 µm	1 = 10 in (25.4 cm) 2 = 20 in (50.8 cm) 3 = 30 in (76.2 cm) 4 = 40 in (101.6 cm)	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 (with stainless steel Insert) Z = 226 O-Ring (with 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 T = Teflon <sup>(1)</sup> Encapsulated Viton (only in 222 and 226 sizes) V = Viton <sup>(1)</sup>	B = Beverage grade

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