



Evadur™ B Filter Cartridges

■ Polyethersulfone Membrane

High Purity Membrane Series

Evadur™ B High Retention Membrane Cartridge

Evadur B is a high purity polyethersulfone membrane cartridge designed specifically for the Beverage industry. The Evadur B offers superior flow rates utilizing high porosity and unique pleat design. In addition, it maintains the bacterial retention and extremely low protein binding the Beverage industry demands. The hydrophilic polyethersulfone membrane resists a wide variety of chemicals and provides unparalleled purity for the most biologically sensitive processes.

In the ever increasing competitive beverage market, purity, process time, and biological retention are demanded from filtration. The Evadur B answers these demands.

Applications

- Bottled Water
- Soft Drinks, Power Drinks, Sports Drinks
- Wine
- Beer
- Edible Oils
- Flavorings
- Vinegar
- Aseptic Packaging



Features and Benefits

- 100% integrity tested
- 100% flushed with 18 MOhm UHP water
- High bacterial retention
- Complete product offering from 0.03 to 0.65 microns.
- High surface area
- High purity polypropylene support structures.
- Thermally bonded to exclude liquid capture and extractables
- All materials biosafe in accordance with USP Class VI-121°C Plastic Test.
- All materials listed as acceptable for potable and edible contact according to CFR Title 21.
- Manufactured in a zone Class 10 clean room.
- Manufactured with strict quality control measuring rinse-up, integrity testing, flow rate, and extractable levels.
- Parker Process Filtration Division is an ISO9000:2000 Certified Division.

Process Filtration Division



Specifications

Materials of Construction:

- Membrane: hydrophilic polyethersulfone
- Membrane Support/Drainage: polypropylene
- Structural components: polypropylene
- Seal Material: various
- Sealing Method: thermal welding

Dimensions:

- Diameter: 2.7 in (6.8 cm)
- Lengths: 10-40 in (25-102 cm)

Recommended Operating Conditions:

- Maximum Temperature: 176°F (80°C) @ 30 ΔP (2.1 bar)
- Maximum Differential Pressure:
 - Forward:
 - 70 psi (4.8 bar) @ 77°F (25°C)
 - 30 psi (2.1 bar) @ 176°F (80°C)
 - Reverse:
 - 50 psi (3.4 bar) @ 77°F (25°C)

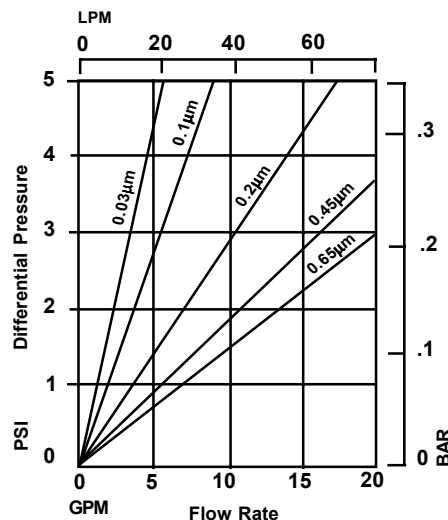
Sterilization/Sanitization Methods:

- Isopropyl Alcohol
- Sodium Hydroxide
- Hydrogen Peroxide
- Hot Water: 190°F (88°C) @ 5 psid (0.3 bar)
- Autoclave: 250°F (121°C) for 30 minutes at 15 psi (1.0 bar)
- In Situ Steam: 284°F (140°C) for 60 minute intervals at 15 psi (1.0 bar) for a cumulative time of 10 hours
- Chlorine
- Sodium Hypochlorite
- Sanitizing Agents (see Materials Selection Guide, Bulletin C-770)

Installation Rinse-In:

- Cartridges typically rinse back to particulate, ionic, and TOC baseline values in less than five minutes at 3.5 gpm/10" equivalent

Evadur B flow rate vs. ΔP for 1 cps liquid @ 73°F (23°C)



Ordering Information

EB	T	B	10	E	TC
Cartridge Code	Pore Size (µm)	Diameter (in)	Length (in)	Seal Material	End Cap Configuration
EB = Evadur B Cartridge	T = 0.03 S = 0.1 F = 0.2 R = 0.45 H = 0.65	B = 2.7	10 = 10 20 = 20 30 = 30 40 = 40	E = EPR B = Buna-N S = Silicone T = PFA encapsulated Viton* (o-ring only) V = Viton* X = No seal material	AR = 020 O-Ring/Recessed DX = DOE w/extender HH = Double Open End LL = 120 O-Ring (both ends) LR = 120 O-Ring/Recessed End PR = 213 O-Ring/Recessed SC = 226 O-Ring/Flat Cap SF = 226 O-Ring/Fin SSC = SS Inserted 226 O-Ring/Closed SSF = SS Inserted 226 O-Ring/Fin STC = SS Inserted 222 O-Ring/Closed STF = Inserted 222 O-Ring/Fin TC = 222 O-Ring/Flat Cap TF = 222 O-Ring/Fin

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** Consult Process Filtration Division for gas flow data.

