

## PureFlo® BEV Cartridges

PureFlo® BEV Cartridges are highly-retentive hydrophilic PES membrane filters. The BEV filter has been designed for beverage applications. The PES membrane, with polyester supports and nylon end caps, provides excellent wettability. No adhesives, binders, or surfactants are used in the manufacturing process. All cartridges are rinsed with high-purity water to reduce extractables.

The hydrophilic PES membrane, with the polyester supports and nylon end caps, enhances the PES pore structure to make it spontaneously wet out in your liquid beverage. No pre-wetting with IPA and flushing with DI water required, thus, eliminating a potential source of contamination and hazardous waste. All filter cartridges are flushed and 100% integrity tested to ensure filter performance each and every time. PureFlo BEV filter cartridges are well-suited for critical applications where superior flow and particle removal efficiency at 0.1, 0.2, 0.45, 0.65, and 1.2 micron is required.



### Applications

Wines	Beers
Liquids	Juices
Syrups	Beverages
Process Water	Potable Water

### Materials of Construction

Membrane: Hydrophilic Polyethersulfone  
 Membrane Supports: Polyester  
 Cage and Core: Polypropylene  
 End Caps: Nylon  
 Gasket / O-Rings: EPDM, Buna N, Silicone, Viton, TES, and TEV

### Dimensions (nominal)

Lengths: 5 in. (13 cm), 10 in. (25 cm), 20 in. (51 cm), 30 in. (76 cm), 40 in. (102 cm)  
 Diameter: 2.75 in. (70 mm)

### Effective Filtration Area

0.65 m<sup>2</sup> (7.0 ft<sup>2</sup>) per 10" cartridge element

### Operating Conditions

Maximum Forward Differential Pressure:  
 5.0 bar (72.5 psid) at 22 °C  
 2.0 bar (29 psid) at 80 °C  
 Maximum Reverse Differential Pressure:  
 3.0 bar (43.5 psid) at 22 °C  
 1.0 bar (14.5 psid) at 80 °C  
 Maximum Operating Temperature: 80 °C

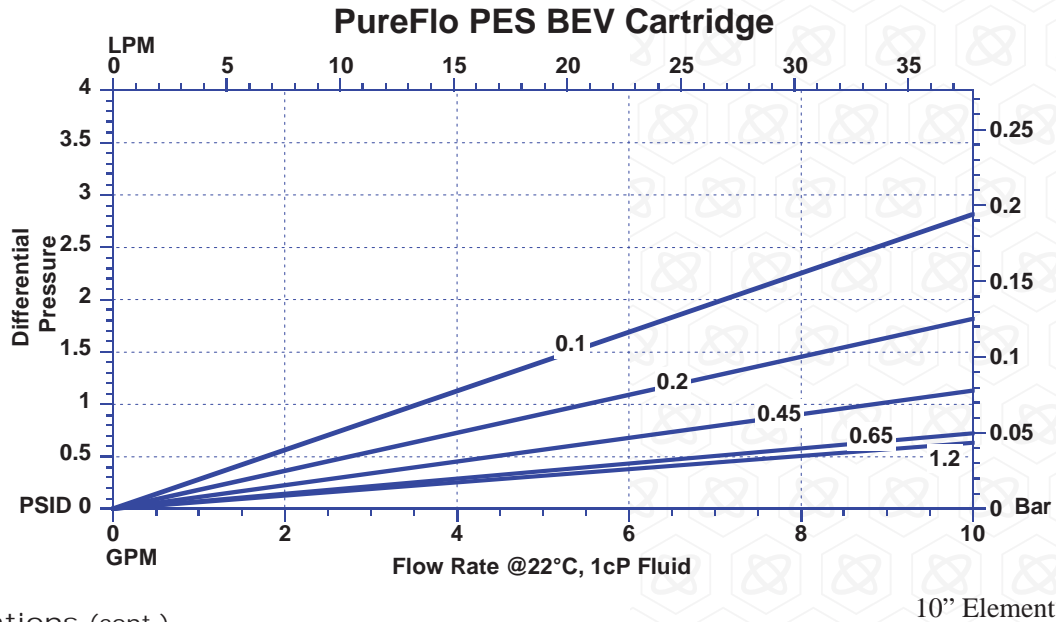
### Features

- Hydrophilic PES Membrane
- Wide Chemical & Thermal Compatibility
- Low Levels of Filter Extractables

### Benefits

- IPA pre-wetting not required – thereby eliminating a potential source of contamination and disposal waste
- Reduces downtime and improves throughput
- Provides excellent compatibility with a wide-range of chemicals
- No adhesives, binders, or surfactants are used during manufacturing resulting in superior downstream cleanliness
- All cartridges are rinsed with high-purity water

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Specifications (cont.)

**Regulatory Compliance:**

Manufactured from materials that conform to the requirements of 21 CFR Part 177 of the U.S. Code of Federal Regulations and USP Class VI Biological test for Plastics

**Sterilization & Autoclaving:**

The filters can be sterilized by autoclaving for up to 25 cycles at 125 °C (257 °F) for 30 minutes. The filters can also be sterilized by steam-in-place procedure up to 10 cycles at 135 °C (275 °F) for 30 minutes at less than 0.3 bar (4.35 psi) differential pressure. The filters can also be sanitized by hot water or common chemicals that are compatible with filter components.

### PureFlo BEV Cartridge Ordering Guide

PureFlo PES Filter Cartridges	Removal Rating	End Modifications	Length	O-Ring / Gasket Materials	Package Qty	Inserts
MBS = PES Filter Cartridge Beverage Grade	10 = 0.10 micron	0 = 222 O-Ring Flat	1 = 10"	E = EPDM	1 = 1pc/ pack	Blank = Standard
	20 = 0.20 micron	3 = 222 O-Ring w/tabs Spear	2 = 20"	N = Buna N	6 = 6pc/ pack	.5 = SS Insert
	45 = 0.45 micron	5 = 222 O-Ring Spear	3 = 30"	P = Perox ide Cured EPDM	(for 10" and 20" only)	
	65 = 0.65 micron	6 = 226 O-Ring Flat	4 = 40"	Q = Platimum Cured Silicon		
	80 - 0.80 micron	7 = 226 O-Ring Spear	5 = 5"	S = Silicone		
	1X = 1.20 micron	8 = 223 O-Ring Flat	9 = 9.75"	T = TEV or FEP Gasket		
		F = DOE Flat Gasket		U = TES*		
		S = SOE Flat Gasket		V = Fluoroelastomer		
		Z = SOE Internal O-ring Flat **				
Ex ample - Beverage grade PES, 10", 0.2 micron cartridge, with 2-222 Silicone o-ring, Flat end cap, and no insert would be MBS2001S1						
* - not av ailable in Code Z      ** - only av ailable in 5", 9.75", 10" and 20", retrofit for DOE housings						

Your Local Distributor:

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