GLOBAL FILTER

Validated Filtration Solutions to Industry Leaders™

Filter Data Sheet

High Purity - Bio-Burden Reduction Grade PES

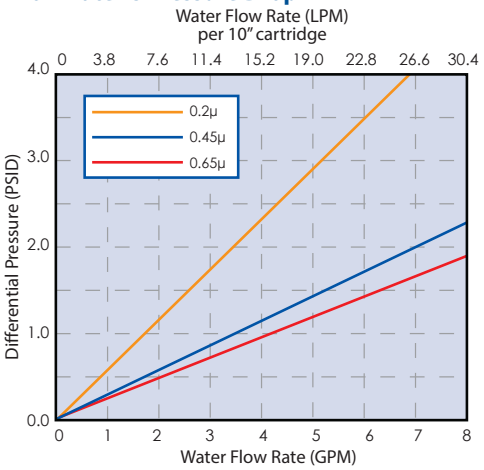
Hydrophilic Polyethersulfone Membrane Cartridges for Bio-Burden Reduction in Food & Beverage and Pharmaceutical Applications

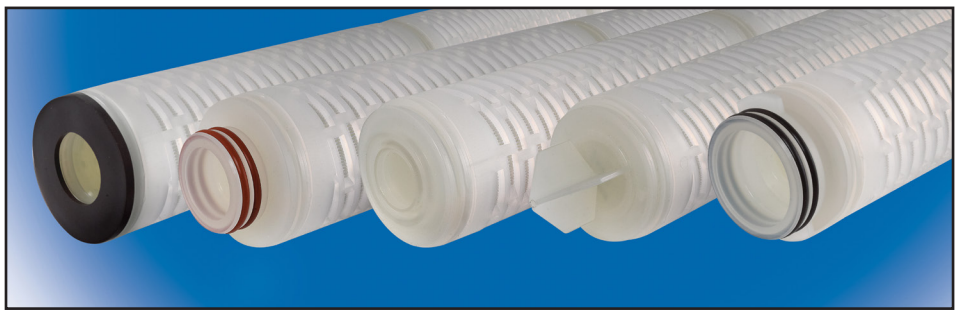
BRPES Bio-Burden Reduction Grade filter cartridges are validated and 100% integrity-tested; providing bio-burden and small particle removal across a wide range of food & beverage, biological liquids and intermediate bulk pharmaceutical fluids. The BRPES series is constructed using a unique single-layer hydrophilic asymmetric polyethersulfone membrane. This construction offers broad chemical compatibility, high flow-rates at low pressure drops and low extractables.

BRPES cartridges are ideal as either a final filtration stage or as an extremely effective prefilter to a sterilizing stage. BRPES cartridges have exhibited average log-reduction values of >8 when challenged with the following microorganisms:

- 0.2µm *Brevundimonas diminuta*
- 0.45µm *Lactobacillus lindneri* , *Serratia marcescens*
- 0.65µm *Lactobacillus lindneri, Saccharomyces cerevisiae*

Flow Rate vs Pressure Drop





Typical Applications

- Cell Culture Media
- Large Volume Parenterals (LVP's)
- Pharmaceutical Bulk Chemical Solutions
- Diagnostics
- Blood and Serum Fractions
- Purified Water
- Beer, Wine and Spirits
- Juice & Soft Drinks
- Bottled Water

Construction Materials

Membrane ..... Polyethersulfone
Support Media ..... Polypropylene
End Caps ..... Polypropylene
Center Core ..... Polypropylene
Outer Support Cage ..... Polypropylene
O-Rings/Gaskets ..... Buna, EPDM, Silicone, Viton®, Teflon® Encapsulated Viton®

Sterilization

Hot Water ..... 85°- 95°C, 30 min., max. ΔP 7 psi
In-Line Steaming ..... 134°C, 30 min., max. ΔP 7 psi; 100 cycles

Dimensions

Length:
10 to 40 inches (25.4 to 101.6 cm) nominal
Outside Diameter:
2.70 inches (7.0 cm) nominal

Maximum Recommended Operating Conditions

Temperature ..... 176°F (80°C)
Forward ..... 72 PSI (5 bar) at 68°F (20°C)
29 PSI (2 bar) at 176°F (80°C)
Reverse ..... 29 PSI (2 bar)

Toxicity

All polypropylene components meet the specifications for biological safety per USP Class VI – 121°C for plastics.

FDA Listed Materials

Manufactured from materials which are listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

Ordering Information

BRPES	Rating (µ)	A	Length, Nominal	C	End Cap Style	O-Rings/Gaskets
	0.2		10" (25.4 cm)		2 = DOE Flat Gasket	B = Buna-N
	0.45		20" (50.8 cm)		3 = 222 w/ Fin	E = EPDM
	0.65		30" (76.2 cm)		4 = 222 w/ Flat Cap	S = Silicone
			40" (101.6 cm)		6 = 226 w/ Flat Cap	V = Viton®
					7 = 226 w/ Fin	T = Teflon® Encapsulated Viton®

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