

BRPES-Series Bio-Burden Reduction Grade Polyethersulfone

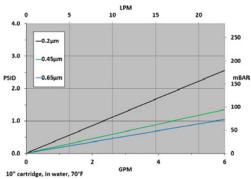
BRPES-Series High Purity Bio-Burden Reduction Grade Filter Polyethersulfone Cartridges are validated and 100% integrity tested; providing bio-burden and small particle removal across a wide range of food & beverage, biological liquids, and intermediate bulk pharmaceutical fluids. The BRPES-Series is constructed using a unique single-layer hydrophilic asymmetric polyethersulfone membrane. This construction offers broad chemical compatibility, high flowrates 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. Manufactured in a clean-room environment to maintain high standards of purity and cleanliness.

Microbial Retention Performance

Rating	Challenge Microbe	Log Reduction Value (LRV)
0.2µ	Brevundimonas diminuta	>8.0
0.45µ	Lactobacillus lindneri, Serratia marcescens	>8.0
0.65µ	Lactobacillus lindneri, Serratia marcescens	>8.0

* Independently tested in accordance with ASTM F838.

Flow Rate vs Pressure Drop



Ordering Information



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,

Teflon® Encapsulated Viton®, Viton®, Teflon® Encapsulated Silicone

Note: O-ring adapters include integral reinforcement ring that will not deform with repeated steam sterilization or hot water sanitation cycles.

Food Safety Compliance

1935/2004, and/or 10/2011.

Dimensions

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

Operating Conditions

Change Out ∆P (recom	mended).	35 PSID
Temperature (max)		176°F (80°C)
Differential Pressure (m	nax)	72 PSID
	(5.0 bar) a	at 68°F (20°C)

Sterilization

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

Toxicity

Materials of construction comply with FDA regulations for food and beverage contact use as detailed in the US Code of Federal Regulations, 21CFR. Materials used to produce filter media and hardware

are deemed safe for use in contact with foodstuffs in accordance with EU Directives 2002/72/EC,

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

5							
BRPES	Rating (µ)	Α	Length, Nominal	С	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	T = Teflon [®] Encapsulated Viton [®]	
					7 = 226 w/ Fin	V = Viton®	
						Z = Teflon [®] Encapsulated Silicone	

DISCLAIMER: Filtration data presented is representative of performance observed in controlled laboratory testing. It is not given as a warranty, specification or statement of fitness for use. Specific performance can vary widely depending on contaminant type, fluid properties, flow rates and environmental conditions. It is recommended that users conduct thorough qualification testing to assure the product functions as required. For additional technical support, a product Validation Guide is available upon request.



