

BRPES-Series Bio-Burden Reduction Grade Polyethersulfone

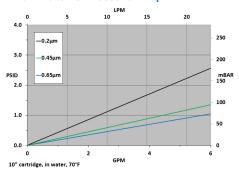
BRPES-Series High Purity Bio-Burden Reduction Grade Filter Polyethersulfone Cartridges are validated and 100% integrity tested; providing bio-burden and small particle removal across a wide range of food & beverage, biological liquids, and intermediate bulk pharmaceutical fluids. The BRPES-Series is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

Microbial Retention Performance

Rating	Challenge Microbe	Log Reduction Value (LVR)	
.2µ	Brevundimonas diminuta	>8.0	
.45μ	Lactobacillus lindneri, Serratia marcescens	>8.0	
.65µ	Lactobacillus lindneri, Saccharomyces cerevisiae	>8.0	

*Independtly tested in accordance with STM F838

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 & Spirits
- Juice & Soft Drinks
- Bottled Water

Construction Materials

Membrane	Polyethersulfone
Support Media	Polypropylene
End Caps	Polypropylene
Center Core	Polypropylene
Outer Support Cage	sPolypropylene
•	Buna, EPDM, Silicone oflon® Encapsulated Viton®1, Viton® Teflon® Encapsulated Silicone

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

Dimension (Nominal)

Length	.10 to 40 in	(25.4 to	101.6	cm)
Outside Diameter		2.78 ir	n (7.06	cm)

Operating Conditions

Change Out ΔP (recommended)	35 PSID (2.4 bar)
Temperature (max)	176°F (80°C)
Differential Pressure (max)	72 PSID at 68°F
	(5.0 bar at 20°C)

Sanitization/Sterilization

Hot Water 185°	- 203°F (85°-95°C) for 30 min
	max ∆P 7 psi
In-Line Steaming	273°F (134°C) for 30 min
	max ∆P 7 psi,100 cycles

Toxicity

All polypropylene components meet the specifications for biological safety per USP Class $VI - 121^{\circ}C$ for plastics.

Food Safety Compliance

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 1935/2004, and/or 10/2011.

Ordering Information

BRPES	Rating(µ)	Α	Length	С	End Cap Style	O-Rings/Gaskets
	0.2		10" (25.4cm)		2 = DOE Flat Gasket ¹²	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®1
					7 = 226 w/Fin	V = Viton®
					28 = 222 3-Tabs w/ Fin	Z = Teflon® Encapsulated Silicone²

^{1 -} When ordering with DOE Flat Gasket, gasket style "T" is not available

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 Performance Guide is available upon request.

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^{2 -} When ordering with DOE Flat Gasket, gasket style "Z" is not available