

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.

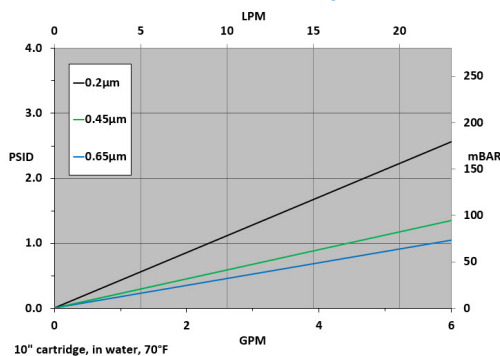


Microbial Retention Performance

Rating	Challenge Microbe	Log Reduction Value (LRV)
0.2μ	<i>Brevundimonas diminuta</i>	>8.0
0.45μ	<i>Lactobacillus lindheri</i> , <i>Serratia marcescens</i>	>8.0
0.65μ	<i>Lactobacillus lindheri</i> , <i>Saccharomyces cerevisiae</i>	>8.0

* Independently tested in accordance with ASTM F838.

Flow Rate vs Pressure Drop



Typical Applications

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

Dimensions

Length:
10 to 40 inches (25.4 to 101.6 cm) nominal
Outside Diameter:
2.78 inches (7.06 cm) nominal

Operating Conditions

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

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

Toxicity

All polypropylene components meet the specifications for biological safety per USP Class IV – 121°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 2002/72/EC, 1935/2004, and/or 10/2011.

Ordering Information

BRPES	Rating (μ)	A	Length	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	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.

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