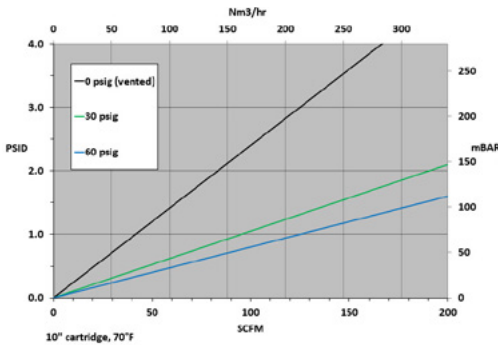


## BRPTFE-Series Bio-Burden Reduction Grade PTFE

BRPTFE-Series High Purity Bio-Reduction Grade PTFE Filter Cartridges, with expanded polytetrafluoroethylene (PTFE) membrane, provide reliable high-LRV reduction of microorganisms in bio-process applications where the high cost of a fully-validated pharmaceutical-grade cartridge is not required. Whether it's fermentation feed air, compressed gas, or a process venting application, the BRPTFE offers a high-flow, high-capacity membrane filter with exceptional hydrophobicity. The superior flow rate allows for economical costs of system design & operation. Proven 7.4 LRV retention of aerosolized bacteriophage provides reliable bioburden reduction and prevention of process contamination. Tolerates multiple sterilization cycles by autoclave or *in-situ* steaming. 100% integrity tested in production. Manufactured in a clean-room environment to maintain high standards of purity and cleanliness.

### Flow Rate vs Pressure Drop



### Typical Applications

- Fermentation feed air
- Compressed air & gases
- Process venting

### Ordering Information

BRPTFE	Rating ( $\mu$ )	A	Length	C	End Cap Style	O-Rings/Gaskets	-	Adders
	0.2		10" (25.4 cm)		2 = DOE Flat Gasket	B = Buna		CS = 316SS Compression Spring
			20" (50.8 cm)		3 = 222 w/ Fin	E = EPDM		HT = High Temperature
			30" (76.2 cm)		4 = 222 w/ Flat Cap	S = Silicone		
			40" (101.6 cm)		6 = 226 w/ Flat Cap	T = Teflon <sup>®</sup> Encapsulated Viton <sup>®</sup>		
					7 = 226 w/ Fin	V = Viton <sup>®</sup>		
					16 = 213 Internal O-Ring	Z = Teflon <sup>®</sup> 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 Performance Guide is available upon request.



### Construction Materials

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

**High Temperature "HT"** construction option features stainless steel core and polyester support layers.

### Sanitization/Sterilization

**Filtered Hot Water** .....80°C for 30 min.  
**Steam Sterilization** .....121°C for 30 min., multiple cycles

**Chemicals:** Cartridges are compatible with most chemical sanitizing agents.

Cartridge O-ring adapters feature integral reinforcement to assure no deformation under repeated steam sterilization cycles.

### 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  $\Delta P$  (recommended)**.....35 PSID  
**Temperature (max)** ..... 176°F (80°C)  
**Differential Pressure (max)** ..... 50 PSID (3.4 bar) at 68°F (20°C)

### Toxicity

All polypropylene components meet the specifications for biological safety per USP Class VI – 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.