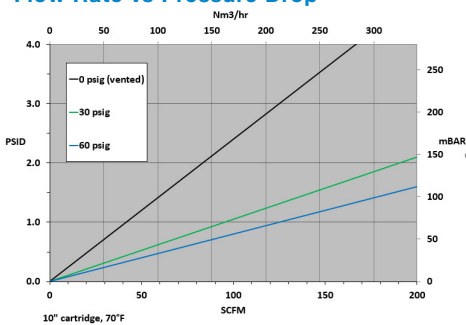


BRPTFE-Series Bio-Burden Reduction Grade PTFE

BRPTFE-Series High Purity Bio-Reduction Grade PTFE Filter Cartridges, with expanded polytetrafluoroethylene (PTFE) membrane, provide reliable high-LRV reduction of micro-organisms 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(μ)	A	Length	C	End Cap Style	O-Rings/Gaskets	-	Options
	0.2		10" (25.4cm)		2 = DOE Flat Gasket ^{1,2}	B = Buna		CS = 316SS Compression Ring
			20" (50.8 cm)		3 = 222 w/Fin	E = EPDM		HT = High Temperature
			30" (76.2 cm)		4 = 222 w/Flat Cap	S = Silicone		I = Stainless Steel Insert
			40" (101.6 cm)		6 = 226 w/Flat Cap	T = Teflon® Encapsulated Viton® ¹		
					7 = 226 w/Fin	V = Viton®		
					16 = 213 Internal O-Ring	Z = Teflon® Encapsulated Silicone ²		
					28 = 222 3-Tabs w/ Fin			

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

2 - When ordering with DOE Flat Gasket, gasket style "Z" 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.

SV_BRPTFE_082224



Construction Materials

Membrane PTFE
Support Media Polypropylene
End Caps Polypropylene
Center Core Polypropylene
Outer Support Cage Polypropylene
O-Rings/Gaskets Buna, EPDM, Silicone, Teflon® Encapsulated Viton®¹, Viton®, Teflon® Encapsulated Silicone²

High Temperature "HT" construction option features heavy-wall polypropylene core, polyester support layers, and a SS insert for 222 and 226 end cap styles.

Dimension (Nominal)

Length 10 to 40 in (25.4 to 101.6 cm)
Outside Diameter 2.7 in (7.0 cm)

Operating Conditions

Change Out ΔP (recommended) 35 PSID (2.4 bar)
Temperature (max) 176°F (80°C)
Temperature (max) "HT" 235°F (113°C)
Differential Pressure (max) 50 PSID at 68°F (3.4 bar at 20°C)

Sanitization/Sterilization

Filtered Hot Water 176°F (80°C) for 30 min

Steaming Sterilization 250°F (121°C) for 30 min multiple cycles

Chemicals: Cartridges are compatible with most chemical sanitizing agents.

Note: Stainless steel insert option required for all cartridges being hot water sanitized or steam sterilized.

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 1935/2004, and/or 10/2011.