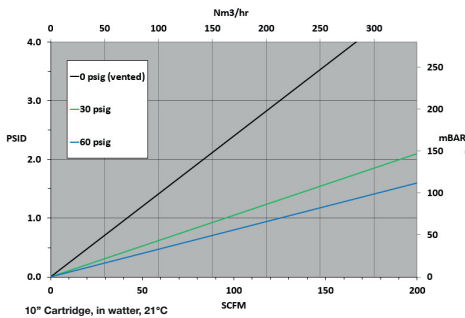


BRPTFE-Series Bio-Burden Reduction Grade PTFE

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



Construction Materials

Membrane	PTFE
Support Media	Polypropylene
End Caps	Polypropylene
Center Core	Polypropylene
Outer Support Cages	Polypropylene
O-Rings/Gaskets	Buna, EPDM, Silicone, FKM, FEP Silicone, FEP FKM

Sanitization/Sterilization

Filtered Hot Water.....80°C for 30 min.

In-Line Steaming.....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, for the 222 and 226 connections.

Toxicity

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

Dimensions

Length:

25,4 to 101,6 cm nominal

Outside Diameter:

7,0 cm nominal

Operating Conditions

Change Out ΔP (recommended).....2,4 bar

Temperature (max).....80°C

Temperature (max) "HT".....113°C

Differential Pressure (max).....3,4 bar at 20°C

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

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

BRPTFE	Rating(μ)	A	Length	C	End Cap Style	O-Rings/Gaskets	-	Adders
	0,2		10" (25,4 cm)		2 = DOE Flat Gasket ¹	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		I = Stainless Steel Insert ³
			40" (101,6 cm)		6 = 226 w/ Flat Cap	T = FEP FKM		
					7 = 226 w/ Fin	V = FKM		
					16 = 213 / Internal O-Ring ²	Z = FEP Silicone		
					28 = 222 3-tabs w/ Fin			

¹ If code 2 (DOE) is applied, options T and Z are not available. ²Silicone and EPDM only.

³ Stainless Steel Insert (-I) adder is not required when High Temperature (-HT) adder is selected. "HT" adder comes standard with the stainless steel end cap insert.

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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