

Bevflo BH

PES Membrane Cartridges for Critical Beverage Applications

- Highly effective filtering area
- Integrity testable in situ
- Repeatedly steamable in situ
- Santizable and regenerable
- Thermowelded construction
- FDA/EC - listed materials for food contact



The Bevflo BH filter element design incorporates proprietary technology which allows you to achieve better filtration results; the design optimizes the flow distribution between the media and the internal core to avoid restrictions and to exploit the full area of the cartridges. This leads to higher flow rates, lower pressure drop and a longer service life.

The Hydrophilic Polyethersulfone media, pleated with upstream and downstream supports, can withstand repeated steam and hot water cycles, and is sanitizer resistant.

Manufacturing is performed in an ISO Class 7 cleanroom environment and each cartridge is flushed with ultrapure DI water and integrity tested.

Materials of Construction

Filter Media	Asymmetric PES membrane
Upstream Supports	Polypropylene
Downstream Supports	Polypropylene
Internal Core	Polypropylene
External Cage	Polypropylene
End Caps/Adapters	Polypropylene

Food Safety

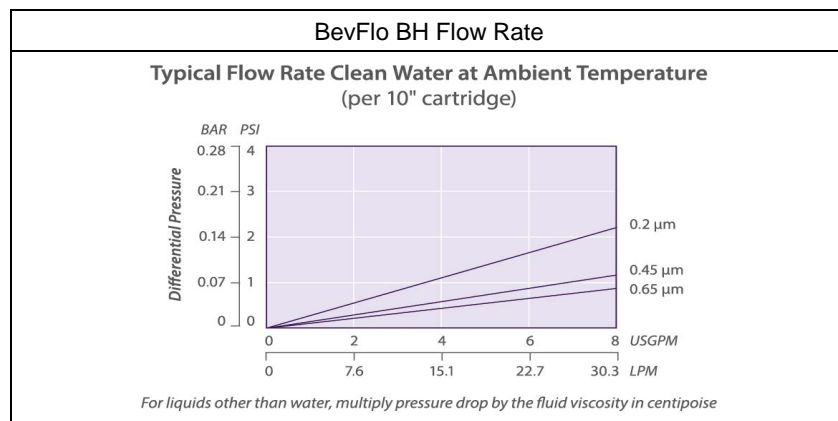
Bevflo BH filter elements meet (EU) regulation 10/2011 and its subsequent amendments and regulations (EC)1935/2004.

All materials comply with FDA Title 21 of the CFR sections 174.5, 177.1520, and 177.2440 for food and beverage contact.

Quality Standards

Produced under an ISO 9001 certified Quality System to guarantee traceability of manufacturing records and integrity testing results.

Recommended Flow Rate per 10" Cartridge



Recommended Operating Conditions

- Filter Area – 7.6ft² (0.7m²) per 10" element
- Maximum continuous operating temperature 176°F (80°C)
- Maximum cumulative time of steam aeruginosa sterilization is 50 thirty-minute cycles @ 275°F (135°C)
- Sanitization with hot water at 185°F (85°C) for up to 30 consecutive minutes
- Sanitization with chemicals - can be sanitized by standard chemical agents with pH range from 1-14
- Regenerability is 2% NaOH solution at room temperature
- Maximum differential pressure is 80psid @ 70°F (4.14 bar @21°C)
- Recommended change out differential pressure is 2.0 bar at 25°C

Integrity Test Specifications		
Minimum Bubble Point values and maximum Diffusive Air Flow (per 10-inch cartridge) values for BevFlo BH filters wet with water		
Pore Size	Bubble Point	Diffusive Air Flow
0.2 µm	≥ 26 psig (2.1bar)	≤ 35 cc/min @ 21 psig (1.7 bar)
0.45 µm	≥ 20 psig (1.4 bar)	35 cc/min @ 16 psig (1.1 bar)
0.65 µm	≥ 17 psig (1.2 bar)	≤ 35 cc/min @ 14 psig (1.0 bar)

Bacterial Retention

Typical Bacteria Retention	
0.2 µm	LRV for Pseudomon aeruginosa ≥11
0.45 µm	LRV for Lactobacillus brevis ≥ 7.6 LRV for Oenococcus oeni ≥ 10.0
0.65 µm	LRV for S. cerevisiae ≥ 8.7

Ordering Guide

Name	Micron Rating	Nominal Length	End Cap Type	Seal Type
Bevflo BH	0.2 µm	10"	03	E - EDPM
	0.45 µm	20"	04 – DOE	S - Silicone
	0.65 µm	30"	07	N – Buna N
		40"	08	V – Viton T – Teflon (encap Viton)

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