

BEVPURE® XL FILTER CARTRIDGES

HYDROPHILIC PES MEMBRANE FILTERS DESIGNED TO EXTEND THE SERVICE LIFE OF THE FINAL STAGE FILTERS

BevPure® XL Filter Cartridges have a unique single-layer asymmetric hydrophilic PES membrane arrangement which delivers excellent throughput, high particle holding capacity, and durability. The extremely high flow rates in comparison to other sterilizing grade filter media can significantly reduce filtration costs.

Industry Standard End Caps, Nominal Lengths

BevPure® XL Filter Cartridges are available in a variety of industry-standard end fittings for easy installation into existing configurations. The filters are available from 5" to 40" lengths to meet all process flow needs.

FEATURE	BENEFIT
Highly asymmetric PES membrane	Provides high particle holding capacity for longer service life
Integrity tested	Each filter is individually Integrity Tested prior to shipment
Retention ratings from 0.1 µm to 1.2 µm	Available in ratings from 0.1µm to 1.2µm for precise bacteria and particle removal
Designed for extensive steam sterilization cycles	Steam sterilization up to 100 sterilization cycles ensures longlife microbiological process safety
Complies with food contact regulations	FDA 21CFR177-182 and 1935/2004 EC compliance to ensure process safety

SPECIFICATIONS

Filter media	Asymmetric PES membrane
Supports/core/cage/end caps	Polypropylene
O-rings	Silicone, EPDM, FKM
Effective filtration area	0.58m ² (6.5 ft ²)/ Ø69-10 inch
Cartridge diameter	69 mm (2.7 in.)
Max. Operating temperature	80°C
Max. Differential pressure	Forward: 0.40 MPa (4.0 bar, 58 psi) at 21°C; 0.24 MPa (2.4 bar, 35 psi) at 70°C
Steam sterilization (saturated steam)	≥100 cycles for 30 minutes at 121°C at Max. Differential Pressure of 0.3 bar (4.3 psi)
Chemical sterilization	2% NaOH solution @ ≤65°C
Hot water sterilization	85°C/30 min. at Max. Differential Pressure for 2 bar (29 psi)



Microbiological Control

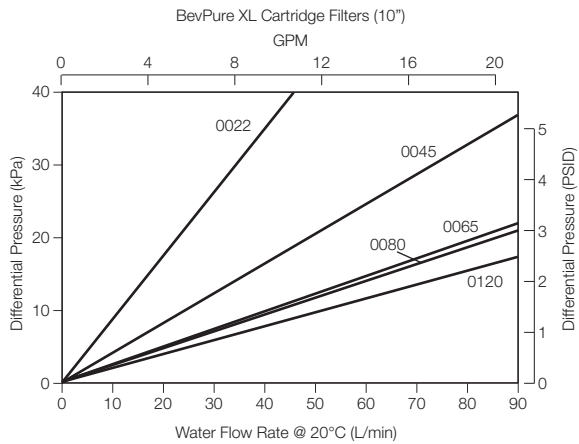
The primary purpose of a membrane filter cartridge in beverage processing is to effectively control spoilage microorganisms.

TYPICAL LOG REDUCTION VALUE (LRV)

	<i>Brevundimonas diminuta</i>	<i>Lactobacillus brevis</i>	<i>Saccharomyces cerevisiae</i>
0.1 µm	> 7/cm ²	N/A	N/A
0.2 µm	> 7/cm ²	N/A	N/A
0.45 µm	N/A	> 7/cm ²	> 7/cm ²
0.65 µm	N/A	> 4/cm ²	> 7/cm ²
0.8 µm	N/A	N/A	> 7/cm ²
1.2 µm	N/A	N/A	> 7/cm ²

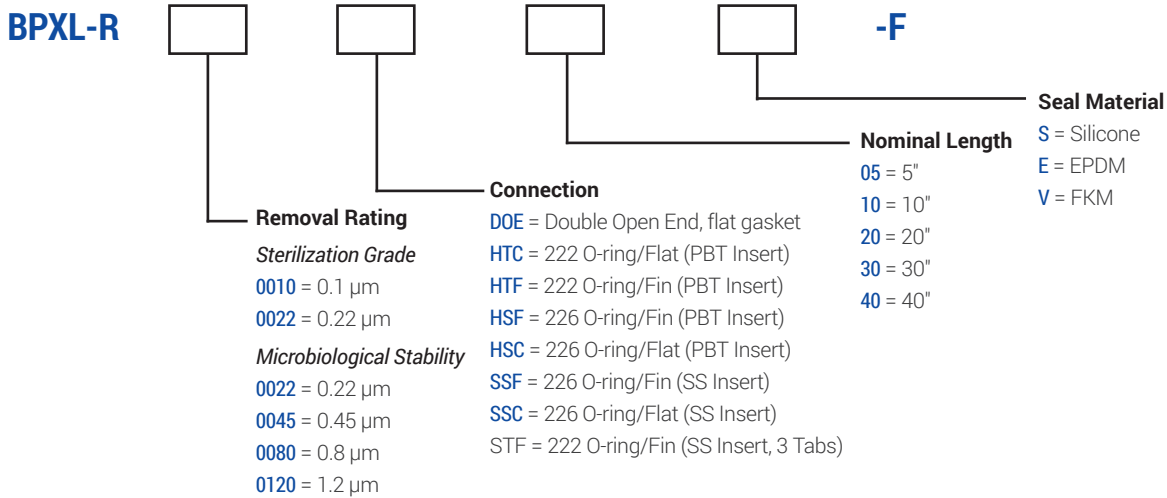
Log Reduction Values are calculated using the following formula: $LRV = \log_{10} \left(\frac{\text{total number of organisms entering the filter}}{\text{total number of organisms exiting the filter}} \right)$

FLOW RATES



ORDERING INFORMATION

EXAMPLE: **BPXL-R0045HTC10S-F** = 0.45 µm, 222/Flat, 10" filter with silicone seals



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