

# Bevflo VK

- Easy to integrity test
- Extended effective filtration area
- Repeatedly steamable in situ
- Sanitisable and regenerable
- Thermowelded construction
- EC-listed materials for Food contact
- FDA-listed materials per CFR21



Bevflo VK pleated PES (Hydrophilic Polyethersulfone) membrane cartridges are specifically designed as a sterilising final filter for wine with a favorable cost benefit ratio and great performance in cold microbiological stabilisation.

The filter media is PES (Hydrophilic Polyethersulfone) membrane, pleated with upstream and downstream supports of polyester. The cartridges are steamable and sanitiser resistant and withstand regeneration cycles in hot water. Manufactured in a controlled environment, rigorous testing during the manufacturing process guarantees standards of high quality.

## Materials of Construction

Filter media	Asymmetric PES membrane
Upstream supports	Polyester
Downstream supports	Polyester
Internal Core	Polypropylene
External Cage	Polypropylene
End caps / Adapters	Polypropylene / polyester

## Food Safety

Bevflo VK filter elements meet (EU) regulation 10/2011 and its subsequent amendments and regulations (EC) 1935/2004 and 1895/2005.

## Quality of Standards

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

## Recommended wine flow rate l/h 10" cartridge

Micron rating	$\Delta P = 0.1 \text{ bar}$
0.2 $\mu\text{m}$	400
0.45 $\mu\text{m}$	500
0.65 $\mu\text{m}$	500
0.8 $\mu\text{m}$	550
1.2 $\mu\text{m}$	550

Flow rates are indicative as they depend on the type of wine, sugar grade and pre-filtration treatment used.

## Recommended Operating Conditions

- Maximum continuous temperature of 65°C
- Maximum cumulative time of steam sterilisation is 40 hours at 121°C with cycles of 30 minutes
- Sanitisation with hot water is 80°C max
- Sanitisation with chemicals - can be sanitised by standard chemical agents
- Maximum differential pressure is 5.0 bar at 25°C
- Recommended change out differential pressure is 2.0 bar at 25°C

ABSOLUTE FILTRATION RATING IN LIQUIDS	ACCEPTABLE LIMIT FOR PRESSURE HOLD TEST		TEST PRESSURE
	Nr. 1 30" cartridge	Nr. 8 30" cartridges	
0.2µm	0.07 bar	0.07 bar	2.4 bar
0.45µm	0.1 bar	0.1 bar	1.1 bar
0.65µm	0.1 bar	0.1 bar	0.9 bar
0.80µm	Not applicable		Not applicable
1.2µm	Not applicable		Not applicable

## Bacterial Retention

ABSOLUTE FILTRATION RATING (Micron)	BACTERIAL RETENTION FOR 10" CARTRIDGE
0.2µm	≥ 10 <sup>10</sup> Brevundimonas diminuta in liquid
0.45µm	≥ 10 <sup>11</sup> Leuconostoc in liquid
0.65µm	≥ 10 <sup>11</sup> Saccharomyces cerevisiae in liquid
0.8µm	≥ 10 <sup>10</sup> Saccharomyces cerevisiae in liquid
1.2µm	Not applicable

BEVFLO VK cartridges are proven to retain micro-organism reported in the table

## Ordering Guide

Name	Micron Rating	Nominal Length	End Cap Type	Seal Type	Special
Bevflo VK	0.2µm	10"	03	E - EPDM	
	0.45µm	20"	04 - DOE	S - Silicone	
	0.65µm	30"	07		
	0.80µm	40"	08		
	1.2µm		28		

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