

# Bevflo VT

- Integrity tested prefilter
- Repeatedly steamable in situ
- Sanitisable and regenerable
- Thermowelded construction
- EC-listed materials for Food contact
- FDA-listed materials per CFR21



The Bevflo VT membrane cartridges are designed for wine filtration as a testable prefilter in yeast and mould retention.

The media is constructed by pleating a layer of PES (Hydrophilic polyethersulphone) membrane with a layer of Borosilicate Microfiber which acts as an imbedded prefilter.

The depth matrix of the Borosilicate layer retains both particular matter and deformable contaminants like colloids. The cartridges are manufactured within a controlled environment, where rigorous testing during the manufacturing processes guarantee high quality standards.

## Materials of Construction

Filter media	PES membrane + Borosilicate microfibre
Upstream supports	Polypropylene
Down-stream supports	Polypropylene
Internal Core	Polypropylene
External Cage	Polypropylene
End caps / Adapters	Polypropylene

## Food Safety

Bevflo VT filter element meets (EU) regulation 10/2011 and its amendments and regulations (EC) 1935/2004 and 1895/2005.

## Quality Standards

Produced under a certified quality system to guarantee traceability of manufacturing records and integrity testing results.

## Wine Flow Rate l/h 10" Cartridge

Micron Rating	$\Delta P = 0.1 \text{ bar}$
0.45 $\mu\text{m}$	300
0.65 $\mu\text{m}$	350
0.80 $\mu\text{m}$	400
1.2 $\mu\text{m}$	450

The flow rates are indicative as they depend on the type of wine, sugar grade and prefiltration system 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
- Regenerability is 2% NaOH solution at room temperature
- 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	
0.45µm	≤ 0.10 bar	≤ 0.10 bar	1.1 bar
0.65µm	≤ 0.12 bar	≤ 0.12 bar	0.9 bar
0.80µm	≤ 0.12 bar	≤ 0.12 bar	0.6 bar
1.2µm	≤ 0.12 bar	≤ 0.12 bar	0.5 bar

\*The values are related to 5 minutes and are indicative as they depend on volume of the housing upstream the filter element.

## Bacterial Retention

ABSOLUTE FILTRATION RATING micron	BACTERIAL RETENTION 10" CARTRIDGE
0.45µm	≥ 10 <sup>10</sup> Leuconostoc oenos
0.65µm	≥ 10 <sup>9</sup> Leuconostoc oenos
0.8µm	≥ 10 <sup>11</sup> Saccharomyces cerevisiae
1.2µm	≥ 10 <sup>10</sup> Saccharomyces cerevisiae

## Bevflo VT Ordering Guide

Name	Micron Rating	Nominal Length	End Cap Type	Seal Type	Special
VT	0.45µm	10"	3	E - EPDM	
	0.65µm	20"	4	S - Silicone	
	0.80µm	30"	7		
	1.2µm	40"	8		
				28	

**Ordering Guide Example: VT-0.45-10-7S**

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