

# Bevflo NY

- \* Easy integrity test in situ
- \* Can be repeatedly steamed in situ and in the autoclave
- \* Thermowelded construction
- \* EC-listed materials for food contact
- \* FDA - listed materials per 21 CFR
- \* Bio - Safety per USP - Plastics
- \* Low filter extractables even with solvents
- \* Validation Guide available on request



The Bevflo NY filter element is designed and manufactured to satisfy and assure high quality and consistent performance across critical applications.

The Bevflo NY cartridge includes nylon 6.6 membrane at controlled porosity and provides high efficiency in bacteria retention. The membrane is pleated with support and drainage layers in polyester which gives high endurance versus thermal sterilisation and hydraulic pulsation stress.

The intrinsic water wettability of nylon and polyester allows easy integrity testing. Manufacturing is completed in a controlled environment; and each filter is integrity tested.

Bevflo NY filter element 0.1 and 0.2 micron are available with a single and double membrane layer.

## Materials of Construction

Filter media	PES membrane + Borosilicate microfibre
Upstream supports	Polyester
Downstream supports	Polyester
Internal core	Polypropilene
External core	Polypropilene
End caps / adapters	Polyester

## Food Safety

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

## Quality Standards

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

## Bio Safety

Filter media and components pass USP CLASS VI Biological Reactivity and Chemical-Physical tests for CLASS VI plastics.

Specific for PH grade, the filter meets USP "water for Injection" requirements for particle release and the effluent is non pyrogenic per USP bacterial endotoxins (<0.25 EU ml).

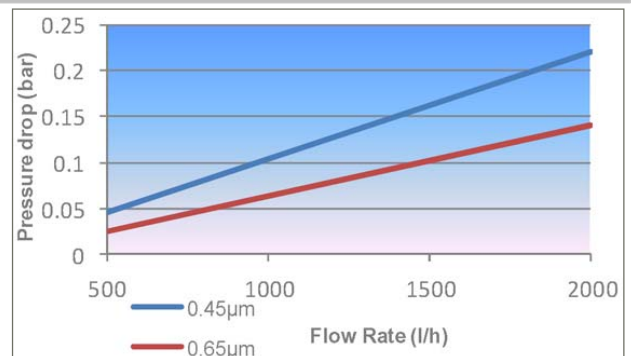
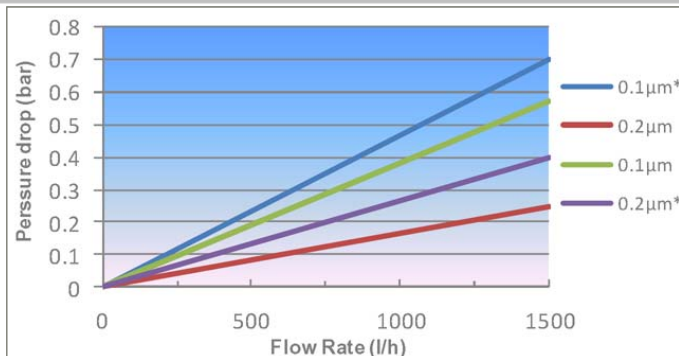
## Operating Conditions

- \* Maximum continuous temperature of 80°C
- \* Maximum cumulative time of steam sterilisation is 5 hours at 140°C / 13 hours at 125°C / 20 hours at 121°C
- \* Sanitisation with hot water is 80°C max
- \* Sanitisation with chemicals - can be sanitised by standard chemical agents
- \* Maximum differential pressure of 5.0 bar at 25°C - 2,5 bar 80 °C - 0,3 bar 135°C
- \* Recommended change out differential pressure is 2.0 bar at 25°C
- \* Recommended rinse up volume 3 liters/cartridge 10"

ABSOLUTE FILTRATION RATING IN LIQUIDS	BACTERIAL RETENTION OF 10 MICRO-ORGANISM >10 CFU/ 10" CARTRIDGE*	ACCETTABLE LIMIT FOR DIFFUSION FLOW TEST WITH WATER FOR 10" CARTRIDGE (ml/mm)
0.1 µm	Hydrogenophaga pseudoflava	≤ 15 @ 2.8 bar
0.1 µm double layer*	Hydrogenophaga pseudoflava	≤ 15 @ 2.8 bar
0.2 µm	Brevundimonas diminuta	≤ 16 @ 2.1 bar
0.2 µm double layer*	Brevundimonas diminuta	≤ 16 @ 2.1 bar
0.45 µm	Serratia marcescens	≤ 16 @ 1.5 bar
0.65 µm	Leuconostoc oenos	≤ 18 @ 0.9 bar

\* as per ASTM F838-05 \*\* bacterial retention with Acholeplasma laidlawii ≥ 10<sup>8</sup>

## Water Flow Rate for 10" Cartridge



## Ordering Guide

Name	Micron Rating	Nominal Length	End Cap Type	Seal Type	Special
Bevflo NY	0.1 µm	5"	03	E - EPDM	DBL - double layer membrane
	0.2 µm	10"	04 - DOE	V - Viton	
	0.45 µm	20"	07	F - Fer	
	0.65 µm	30"	08	S - Silicone	PH - Biological Grade; tested and preflushed with non - pyrogenic water.
		40"	28		

05\_02\_EN



UK Office:

Envirogen Group  
Unit 14a Bromyard Road  
Trading Estate  
Bromyard Road, Ledbury  
Herefordshire HR8 1NS  
Tel: +44 (0) 1531 636328  
E: info@envirogengroup.com  
www.envirogengroup.com



Italian Office:

Envirogen Group Italy S.p.A  
Viale De GASPERI,88/B  
20017 Mazzo di Rho Milano  
Tel: +39 (0)2 93959.1  
E: info.it@envirogengroup.com  
www.envirogengroup.com



USA Office:

Envirogen Technologies  
Two Kingwood Place  
700 Rockemad Dr. Suite 105  
Kingwood, TX 7739  
Tel: +1 877.312.8950  
E: info@envirogen.com  
www.envirogen.com