

Bevflo NY

- Positive Zeta potential
- Enhanced endotoxins retention
- Easy integrity testing in situ
- Repeatedly steamable in situ and in an autoclave
- Thermo-welded construction
- EC-listed materials for Food contact
- FDA-listed materials per 21 CFR
- Bio-Safety per USP - Plastics
- Low filter extractable even with solvents
- Validation Guide available on request



The Bevflo NY filter element is manufactured using a highly positive charged, Nylon 6.6 membrane, its Zeta potential retains negatively charged fine particles even smaller than the pores size itself.

Tests have proven that the positive charged Nylon membrane provides an enhanced retention capability of sub-micron particles and especially on endotoxins in aqueous solution at defined conditions. The intrinsically water wettability of nylon and polyester allows easy integrity testability. Manufacturing is completed in a controlled environment. The filter is easily integrity tested to provide the quality level required in products for pharmaceutical and medical applications.

Materials of Construction

| | |
|---------------------|----------------------------|
| Filter media | Positive charged nylon 6,6 |
| Upstream supports | Polyester |
| Downstream supports | Polyester |
| Internal Core | Polypropylene |
| External Cage | Polypropylene |
| End caps / Adapters | Polyester |

Food Safety

Bevflo NY filter element materials meet (EU) regulation 10/2011 and its amendments, regulations (EC) 1935/2004 and 1895/2005.

Bio Safety

Filter media and components pass USP CLASS VI Biological reactivity and chemical physical tests for USP 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).

Quality Standards

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

Operating Conditions

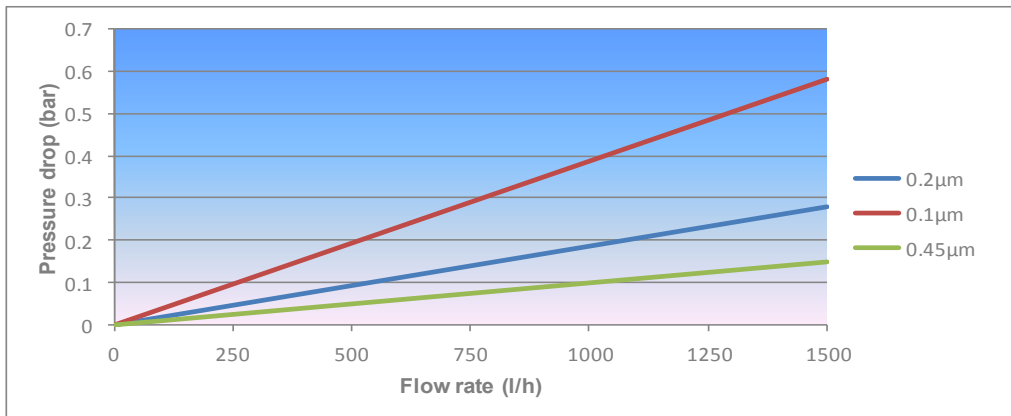
- Maximum continuous temperature of 80°C
- Maximum cumulative time of steam sterilisation is 5 hours at 140°C /13 hours at 125°C / 20 hours at 121°C
- Sanitisation with hot water is 80°C max
- Sanitisation with chemicals - can be sanitised by standard chemical agents
- Maximum differential pressure is 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 is 3 liter / cartridge 10"

| ABSOLUTE FILTRATION RATING IN LIQUIDS | BACTERIAL RETENTION OF MICRO-ORGANISM >10 ⁷ CFU/10"CARTRIDGE* | ACCEPTABLE LIMIT FOR DIFFUSION FLOW TEST WITH WATER FOR 10" CARTRIDGE (ml/min) |
|---------------------------------------|--|--|
| 0.1µm | Hydrogenophaga pseudoflava** | ≤ 16 @ 2.8 bar |
| 0.2µm | Brevundimonas diminuta | ≤ 16 @ 2.1 bar |

*as per ASTM F838-05
 ** bacterial retention with Acholeplasma laidlawii ≥ 10⁷

ENDOTOXINS RETENTION IN WATER
 350 l/h flow rate / 10" cartridge
 0.1µm, 0.2µm, 0.45µm

Water Flow Rate For 10" Cartridge



Bevflo NY Ordering Guide

| Name | Micron Rating | Nominal Length | End Cap Type | Seal Type | Special |
|------|---------------|----------------|--------------|--------------|--|
| NY | 0.1µm | 5" | 3 | S - Silicone | PH - Biological Grade; tested and preflushed with non pyrogenic water. B-Biological |
| | 0.2µm | 10" | 4 | E - EPDM | |
| | 0.45µm | 20" | 7 | | |
| | | 30" | 8 | | |
| | | 40" | 28 | | |

Ordering Guide Example: NY- 0.1-10-3E-B

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