



FLUXA

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S.p.A.

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HIGH FLOW BEVERAGE GRADE MEMBRANE

Within the beverage industry, it is important that products are microbiologically stabilised prior to packaging to prolong shelf life without affecting the nature of the product. Minimising the cost of stabilisation whilst maintaining beverage quality remains a constant driver.

Fluxa **POLIFLO II VPW** is a high flow advanced PES membrane filter cartridge designed to meet these requirements.

Fluxa **POLIFLO II VPW** cartridges can be in-situ steam sterilised and superior chemical resistance allows the cartridges to be repeatedly cleaned for a longer service life.

Applications

Clarification and microbiological stabilisation of Beers, Wines, Bottled Water and other beverages.

Cartridge Construction

All cartridges are thermally bonded and adhesive free. Each unit is preflushed with ultra pure water and integrity tested before final assembly.

- Meets requirements on materials used for articles intended to come into contact with food as described in CFR Title 21 as well as the requirements for food contact as detailed in European Regulation (EC) Number 1935/2004
- Meets current USP requirements for extractables
- Full product validation guide available



Fluxa manufactures a comprehensive range of filter housings for **POLIFLO II VPW** cartridges including the industrial series and filters for hygienic applications. Please consult our Sales Office for further details on the full range.

POLIFLO II VPW FEATURES AND BENEFITS

- High surface area offering high flow rates and long life
- Utilises naturally hydrophilic PES membrane providing low adsorption of protein, colour and flavour components
- Cartridge exhibits wide chemical compatibility and can be regenerated for extended service life
- Repeatedly integrity testable to assure consistent performance throughout their service life
- Range of removal ratings and validated*¹ for consistent and reliable performance
- Suitable for most sanitisation regimes including steaming, autoclaving, hot water flush and most common sanitising agents.

(Note: Steaming, autoclaving and hot water sanitisation must use the glass filled end-cap option)

*¹ See product guides for further details stating test method and rated efficiencies

TECHNICAL DATA

Dimensions

Outside Diameter: 68.5 mm
 Typical Surface area: 0.65 m² - 0.75 m² (Per 10")
 Length: See ordering guide

Sterilisation and Sanitisation^{*2}

Steam or Autoclave: 121°C for 15 mins (40 cycles)
 Hot Water: 90°C for 30 mins (0.2 bar ΔP max)

^{*2} Applies to single open end cartridges only. For all steaming and hot water applications, the Glass Filled end cap option must be used.

Maximum Operating Conditions

Temperature: 80°C
 Recommended Maximum Differential Pressure:
 Forward Flow: 4.0 Bar @ 20°C
 Reverse Flow: 3.5 Bar @ 20°C

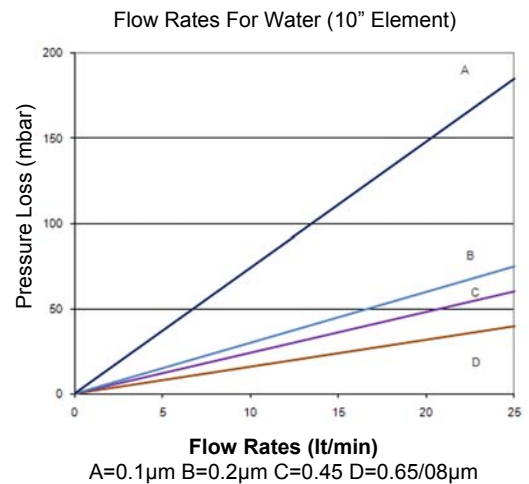
Product validation guide available on request.
 All **Poliflo II VPW** cartridges are manufactured under strict control with batch number identification, giving full traceability on all components.

Materials of Construction

Filter Media: Polyethersulphone (PES)
 Cage, Core & End Caps: P - Polypropylene (PP)
 D - Polypropylene Cage and Endcaps, Glass Filled PP Core

Bacterial Challenge

E-VPW 0,2µm: LRV>10¹¹ (Brevundimonas diminuta (ATCC 19146))
 E-VPW 0,45µm: LRV>10⁸ (Serratia Marcescens (ATCC 14756))



INTEGRITY TEST SPECIFICATION

Micron Rating	Bubble Point In Water	Diffusion Flow (cc/min/10") In Water
0.1µm	4140mBar (60 psi)	≤ 30 @ 3310mBar
0.2µm	3030mBar (44 psi)	≤ 30 @ 2410mBar
0.45µm	1720mBar (25 psi)	≤ 30 @ 1380mBar
0.65µm	1310mBar (19 psi)	≤ 30 @ 1030mBar
0.8µm	1030mBar (15 psi)	≤ 30 @ 830mBar
1.0µm	690mBar (10 psi)	≤ 30 @ 550mBar

ORDERING GUIDE

E ○ ○ ○ ○ ○ - ○ ○ ○ ○ ○ ○ ○ ○ ○ ○

Media	Grade	Length	Micron Rating	Connections	Seal	Options
VP - Polyethersulphone / Polypropylene	W - Single Layer	09 - 251 mm	001 - 0.10 µm	0 - DOE	B - Buna	G - Glass filled
VD - Polyethersulphone / Polypropylene Cage and Endcaps, Glass Filled PP Core	Beverage Grade	20 - 510	002 - 0.20	S - Code S	E - EPDM	PP end cap
		30 - 757	004 - 0.45	2 - Code 2	S - Silicone	
		40 - 1016	006 - 0.65	3 - Code 3	V - Viton	
			008 - 0.80	7 - Code 7		
			010 - 1.0	8 - Code 8		
				9 - Code 213 / Flat		

Example: E-VPW - 30 - 004 3S = Polyethersulphone media with polypropylene core, Beverage Grade, 0.45µm, triple length 30" long, Code 3 end fitting with Silicone seal.

INDUSTRIES AND APPLICATIONS

- Wineries**
 - Reduction of spoilage organisms
 - Sterilisation prior to bottling
- Breweries**
 - Yeast Reduction
 - Cold stabilisation prior to packaging
 - Sterilisation of dealcoholised liquors
- Soft Drinks**
 - Sterile filtration of mineral water
 - Sterilisation of product make-up water
- Utilities**
 - Sterilisation of critical water