



FLUXA

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PLEATED DEPTH FILTER CARTRIDGE

Poliflo II FPG Microfiltration cartridges have been designed as effective membrane prefilters and as final polishing filters for all liquid processing applications.

Manufactured using polypropylene for the hardware, the **Poliflo II FPG** utilises a superior Borosilicate Glass Microfibre as the media. This highly efficient pleated depth media offers excellent dirt holding capacity and retention levels, making it a ideal clarifier in many liquid processing applications. Its thermally bonded construction ensures minimal extractables and its high filtration efficiency makes it an excellent choice for use in beverage, fine chemical & water treatment processes. The construction utilises thermal welding techniques to bond all the components therefore eliminating adhesives and extractables and optimising cartridge integrity.

The **Poliflo II FPG** cartridges use pleated depth media and are available in Standard and Junior sizes with micron ratings from 0.3 μm to 10 μm in the full range of industry standard lengths and end cap styles.

Product Features

- Borosilicate Glass Microfibre media
- Epoxybinding for maximum compatibility
- Polypropylene hardware with Polyester drainage layers
- Absolute removal ratings Beta ratio 5000
- Modular construction
- Standard and Junior configurations
- Graded density media for optimum dirt holding capacity
- Materials meet US FDA CFR Title 21 requirements



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)

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

POLIFLO II PPG FEATURES AND BENEFITS

- Absolute removal ratings for consistent and reliable performance
- Pleated depth media for maximum dirt holding capacity
- High surface area giving high flow rates and low initial pressure losses
- Range of absolute rating from 0.3 to 10 μm
- Thermal bonding process eliminates adhesives and ensures minimal extractables
- Identification mark on every cartridge
- Full product guide available

TECHNICAL DATA

Dimensions

Outside Diameter:	Standard	Junior
	68.5 mm	55.5 mm
Typical Surface area:	0.36 m ² (per 10")	0.12 m ²
Length:	See ordering guide	

Sterilisation and Sanitisation*¹

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

*¹ Applies to single open end cartridges only. For all steaming and hot water applications, the Glass Filled end cap option must be used.

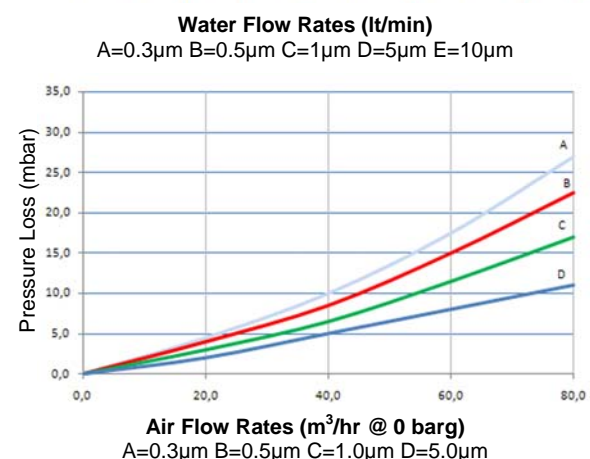
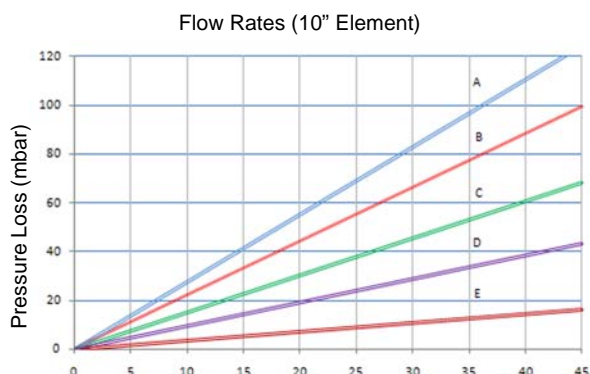
Maximum Operating Conditions

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 FPG cartridges are manufactured under strict control with batch number identification, giving full traceability on all components.

Materials of Construction

Filter Media: Borosilicate Glass Microfibre with Epoxy resin binder
 Media Support: Polyester
 Cage, Core & End Caps: P - Polypropylene (PP)
 D - Polypropylene
 Cage and Endcaps, Glass Filled PP Core



ORDERING GUIDE

E — ○ — ○ G — ○ ○ — ○ ○ ○ — ○ — ○ — ○

Media	Core/Assembly	Length	Micron Rating	End Fittings	Seal Material	Options
F - Borosilicate Glass Microfibre	P - Polypropylene D - Polypropylene Cage and Endcaps, Glass Filled PP Core	05 - 125 mm 09 - 250 20 - 509 30 - 769 40 - 1016	003 - 0.3 µm 005 - 0.5 010 - 1.0 050 - 5.0 100 - 10	0 - DOE S - Code S 2 - Code 2 3 - Code 3 6 - Code 6 7 - Code 7 8 - Code 8 9 - Code 213 / Flat 9 B - Code 9 J - Junior * ²	B - Buna E - EPDM F - FEP/Silicone (SOE only) S - Silicone T - PTFE (DOE only) V - Viton	G - Glass filled PP end cap

Example: E-FPG-30-012 S E = Glass Microfibre media with polypropylene hardware, General Grade, 0.5µm rating, double length 20", Code A connection with Silicone seal.

*² Junior Cartridges available in 5", Code J, Single Open Ended Only

INDUSTRIES AND APPLICATIONS

- Food and Beverage** ➤ Bottled water, Beers, Wines, Flavours, Polishing lines, Clarification
- Pharmaceutical** ➤ Membrane pre - filtration, Ophthalmics, Oral medications, Serum
- Fine Chemicals** ➤ Polymers, Bases, Solvents
- Cosmetics** ➤ Alcohol, Creams, Lotions, Essential oils, Mouthwashes
- Water Treatment** ➤ Potable water, Resin trap, Pre/Post UV, Membrane protection