



# FLUXA

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S.p.A.

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## PLEATED DEPTH FILTER CARTRIDGE

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

Manufactured using 100% polypropylene media, drainage layers and hardware, the **Poliflo II PPG** pleated depth cartridge offers excellent chemical compatibility across a wide range of liquid processing applications. Its thermally bonded construction ensures minimal extractables and its high filtration efficiency makes it an excellent choice for use in many manufacturing & water treatment processes. The construction utilises thermal welding techniques to seal all the components therefore eliminating adhesives and extractables and optimising cartridges integrity.

**Poliflo II PPG** cartridges use pleated depth media and are available in standard diameter and Junior sizes with micron ratings from 0.2 µm to 40 µm in the full range of industry standard lengths and end cap styles.

### Product Features

- 100% polypropylene construction
- Absolute removal ratings Beta ratio 5000
- Extended life version available
- No fibre migration
- Modular construction
- Standard and Junior configurations
- Materials meet US FDA Title 21 and USP Class VI requirements
- Meets the requirements for food contact as detailed in European Regulation (EC) Number 1935/2004



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
- Extended life version available for more challenging applications
- Wide chemical compatibility using 100% polypropylene to meet FDA requirements
- Range of absolute rating from 0.2 to 40 µm
- Thermal bonding process eliminates adhesives and ensures minimal extractables
- Identification mark on every cartridge
- Comprehensive Product Validation Guide Available

## TECHNICAL DATA

### Dimensions

Outside Diameter:	Standard 10"	Junior 5"
	68.5 mm	55.5 mm
Typical Surface area:	0.4 - 0.62 m <sup>2</sup> (per 10")	0.15 - 0.24 m <sup>2</sup>
Length:	See ordering guide	

### Sterilisation and Sanitisation\*<sup>1</sup>

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

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

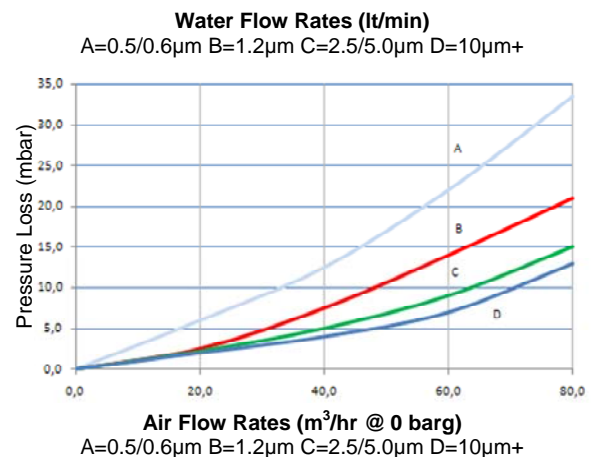
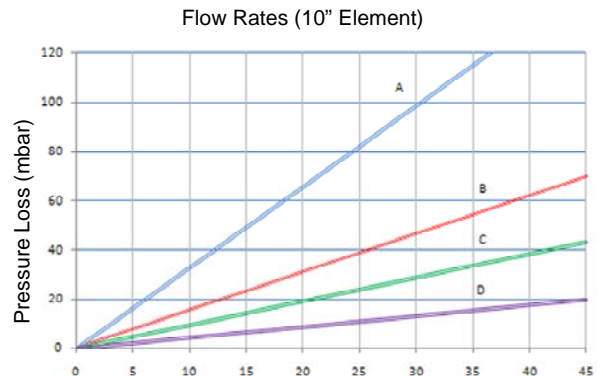
### Maximum Operating Conditions

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

### Materials of Construction

Filter Media:	Polypropylene (PP)
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
P - Polypropylene X - Extended life PP* <sup>2</sup>	P - Polypropylene D - Polypropylene Cage and Endcaps, Glass Filled PP Core	05 - 125 mm 09 - 250 20 - 509 30 - 762 40 - 1016	005 - 0.5 µm 006 - 0.6 012 - 1.2 025 - 2.5 100 - 10 200 - 20 400 - 40	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 * <sup>2</sup>	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-PPG-30-012 SE = Polypropylene media and core, General Grade, 1.2µm rating, triple length 30", Code S connection with EPDM seal.

\*<sup>2</sup> Available in 5, 10 and 20µm

## INDUSTRIES AND APPLICATIONS

<b>Food and Beverage</b>	➤ Bottled water, Beers, Wines, Flavours, Polishing lines, Clarification
<b>Pharmaceutical</b>	➤ Membrane pre - filtration, Ophtalmics, Oral medications
<b>Fine Chemicals</b>	➤ Polymers, Photoresists, Acids, Bases, Solvents
<b>Electronics</b>	➤ High purity water, Photo resists, Acids, Etch solutions
<b>Cosmetics</b>	➤ Alcohol, Creams, Lotions, Essential oils, Mouthwashes
<b>Metal Finishing</b>	➤ Plating solutions, Wash solutions, Paints, Resins, Varnishes
<b>Water Treatment</b>	➤ Potable water, Resin trap, Pre/Post UV, Membrane protection