



FLUXA

Fluxa
Filtri
S.p.A.

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Introduction

Fluxa Filtri Poliflo W-PP is an absolute rated pleated polypropylene filter offering high dirt holding capacity while maintaining low differential pressures and high flow rates. Our Poliflo W-PP filters continue the Fluxa Filtri tradition of developing high performance, quality assured, innovative filter products.

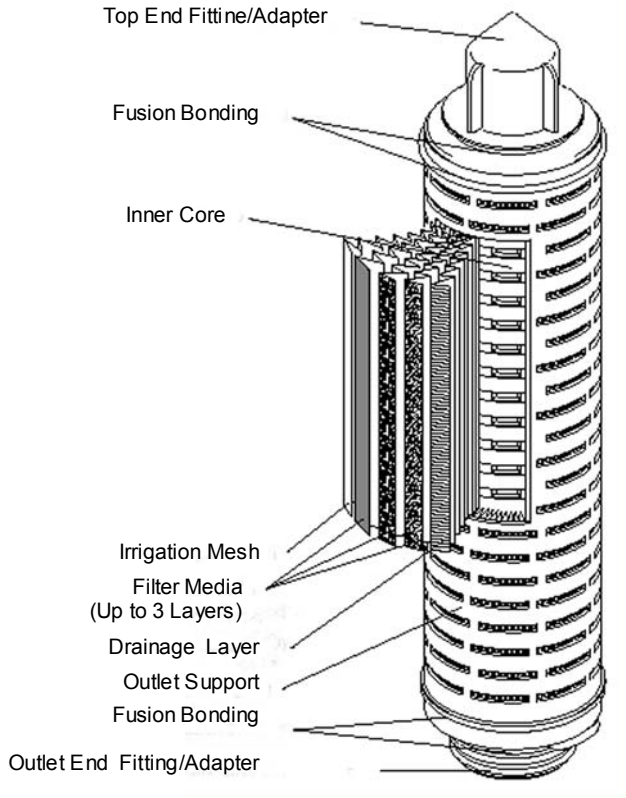
The Poliflo W-PP range incorporates all the key features and benefits of the Poliflo W-PP range but with some exciting new developments.

POLIFLO W-PP

Absolute Rated Pleated Polypropylene Cartridge Filters

Features and Benefits:

- Fluxa Filtri extensive research and selection of the latest and most advanced polypropylene melt blown microfibre filter media results in improved performance leading to extended filter life at a given efficiency.
- A multi-layer graded pore structure provides prefiltration of the process fluid prior to the absolute rated final layer. The absolute rated layer combined with graded prefiltration often eliminates the need for further filters.
- Large surface area for low clean pressure drop.
- All cartridges are absolute rated, from installation, to Beta 5000 (99.98% efficient) via the recognised industry standard OSU-F2 (modified) test ensuring consistent, high quality filtration.
- Fluxa Filtri Poliflo W-PP filters are among the most environmentally friendly filters on the market - all spent cartridges can be readily incinerated to trace ash.
- Fluxa Filtri is quality assessed to ISO 9001 covering all aspects of design, manufacture and quality control.
- All components are FDA approved (CFR21 No.s available).



Cartridge Construction

- High quality robust all polypropylene construction allows for excellent chemical compatibility with a wide range of fluids.
- Hot spun polypropylene media providing a bonded matrix which minimises extractables and eliminates fibre migration.
- Inherent structural stability prevents 'channelling' and avoids the risk of particle unloading even under impulse conditions.
- Multi-layer combination of filter media, irrigation mesh and drainage material carefully pleated and thermally bonded maximises the media area and ensures an efficient flow throughout the cartridge.
- Fusion bonded construction ensures cartridge integrity. No surfactants or bonding agents are used, minimising extractables.
- The range is available with injection moulded outer supports facilitating steam sterilisation and reverse flowing. (If this is not required, cartridges are available with a net polypropylene sleeve).

The Range

- Absolute micron ratings have been increased: 0.5, 0.8, 1, 2, 3, 5, 7, 10, 15, 20, 30, 40, 60 and 90 microns absolute.
- Available in single or multiple module units of 5, 10, 20, 30 and 40 inches (non standard lengths available upon request).
- Complementary range of low cost net sleeve cartridges.
- End fittings available to suit most hardware installations without modification.

Particle Retention Rating Table

Code	Pore Rating	Absolute Rating 99,98% Beta 5000 (microns)	Nominal Rating 99,90% Beta 1000 (microns)	Nominal Rating 99,00% Beta 100 (microns)	Nominal Rating 98,00% Beta 50 (microns)	Nominal Rating 90,00% Beta 10 (microns)
A5	0.5	0.5	0.45	0.35	<0.3	-
A8	0.8	0.8	0.6	0.4	0.35	0.3
01	1	1	0.9	0.55	<0.5	-
02	2	2	1.7	1.2	1.0	<0.5
03	3	3	1.75	1.2	1.0	<0.5
05	5	5	2.6	1.25	1.0	-
07	7	7	5.0	2.0	-	-
10	10	10	8.0	7.5	5.0	1.5
15	15	15	11	9.0	7.0	2.0
20	20	20	12.5	10	7.5	<0.5
30	30	30	20	13	11	7.0
40	40	40	30	20	15	9.0
60	60	60	55	50	37	24
90	90	90	85	60	45	45

Specifications

Materials of Manufacture

Filter Medium	Polypropylene
Irrigation Mesh	Polypropylene
Inner Core	Polypropylene
Outer Support/Net Sleeve	Polypropylene
End fittings	Polypropylene
Sealing	Fusion Bonding

Cartridge Dimensions (Nominal)

Diameter: 70mm (2.8")	
	65mm (2.6") OD 'Net Sleeve' DOE
Length: 1 Module (short)	125mm (5")
1 Module	250mm (10")
2 Modules	510mm (20")
3 Modules	760mm (30")
4 Modules	1020mm (40")

Effective Filtration Area

From 0.39m² to 0.6m² per 250mm module (depending on pore rating and nominal cartridge diameter).

Cartridge Treatment

Standard	Clean, without further treatment
Flushed	Flushed with pyrogen free water
Rinsed	Ultra-clean, pulse flushed to give a system resistivity of 18MΩ.cm

Gaskets and O-rings

Ethylene Propylene Rubber, PTFE Encapsulated, Silicone, Viton, Nitrile or Polypropylene Felt.

Maximum Differential Pressure

Normal Flow Direction at:	
20°C (68°F)	6 bar (87psi)
	5 bar (73psi) (Net Sleeve Types)
80°C (176°F)	4 bar (57psi)
100°C (212°F)	3 bar (43psi)
120°C (248°F)	2 bar (29psi)
125°C (257°F)	1.5 bar (22psi)

Reverse Flow Direction (Excluding 'Net Sleeve' types)at:	
20°C (68°F)	2.1 bar (30psi)
80°C (176°F)	1.0 bar (15psi)
100°C (212°F)	0.5 bar (7psi)

Operating Temperature

80°C (176°F) Maximum continuous.

Sterilisation

Autoclave, Chemical, Multiple In-line Steam up to 136°C (277°F) (excluding 'Net Sleeve' types) Hot Water Sanitisation 80°C (176°F)

Extractables

Minimal total extractables.

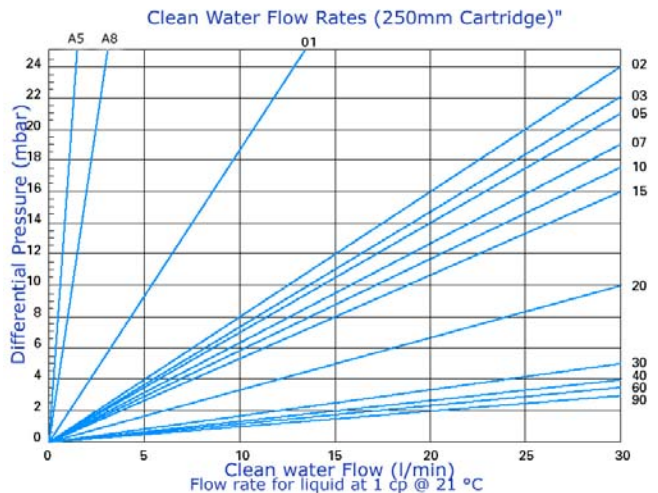
Biological Safety

Conforms to USP Class VI for plastics. All polypropylene materials are FDA approved to 21 CFR 177 - 1520

Test Conditions

Typical Clean Water Flow Rate - Based on a 250mm (10") single module Fluxa Filtri housing exhibiting the differential pressure characteristics indicated below, for solutions with a viscosity of 1 centipoise.

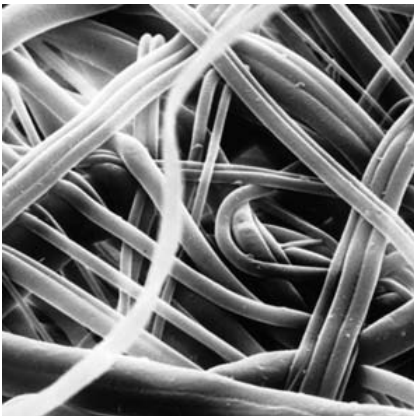
Other Solutions - For solutions with a viscosity greater than 1 centipoise, divide the indicated flow rate by the viscosity in centipoise.



Polypropylene Filter Media



Poliflo W-PP Polypropylene Media (x250)



Poliflo W-PP Polypropylene Media (x1000)

Applications

The demand for increasingly high standards of filtration means that microfiltration performance is now necessary where commercial grade cartridges have hitherto been adequate.

Suitable for the filtration of aqueous and many organic liquids, Poliflo W-PP cartridges can be used as prefilters or final filters in the following applications:

- **Process Water Systems**
the filtration of process water in pure water supply systems.
- **Microelectronics**
the preparation of process water and chemicals used in the manufacture of semiconductors and other electronic components.
- **Cosmetics**
the clarification and sterilisation of intermediates and final products.
- **Pharmaceuticals and Bioprocessing**
the batch preparation of intermediates used in the manufacture of pharmaceutical and bioprocessed products.
- **Foods and Beverages**
the clarification of foods and beverages including syrups, beers, wines and spirits.
- **Fine Chemicals**
the filtration of high grade chemicals including reagents, photographic emulsions, inks, paints and plating solutions.

Cartridge part numbering guide

WPP 40 01 7 S X X

Code	Nominal Length	Code	Absolute Pore Rating	Code	End fitting	Code	Seal Material	Code	Version	Code	Additional Option
05	125 mm (5")	A5	0,5 µ	0	DOE	E	EPDM	F	Flushed Pyrogen free Water	P	Pharmaceutical Grade Special
10	250 mm (10")	A8	0.8 µ	3	COD.3	S	SILICONE				
20	510 mm (20")	01	1 µ	7	COD.7	N	NITRILE				
30	760 mm (30")	02	2 µ	8	COD.8	V	VITON	L	Economic		
40	1020 mm (40")	03	3 µ	9	COD.9	P	PTFE	N	Net outer		
		05	5 µ	X	SPECIAL			R	Rinsed		
		07	7 µ			G	PTFE ENCAPSULED SILICONE	S	Std hard cage		
		10	10 µ					X	Special		
		15	15 µ			X		SPECIAL			
		20	20 µ								
		30	30 µ								
		40	40 µ								
		60	60 µ								
		90	90 µ								