



FLUXA

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S.p.A.

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Poliflo Star-GF cartridges have been specifically designed, by Fluxa Filtri, for use as final filters in process applications and as prefilters in sub-micronic membrane filtration systems

Cartridge Construction

Poliflo Star-GF cartridges incorporate a multi-layer of melt blown polypropylene and a dual layer of glass media, pleated with polypropylene upstream irrigation and downstream drainage materials. The outer sleeve, inner core and integral end-cap adapters are made of polypropylene.

Multiple length cartridges with industry standard adapter styles are produced to fit most housing designs and system sizes. All materials are traceable and CFR 21 listed for direct food contact. Cartridges are constructed in a clean room under tightly controlled conditions using advanced, highly specialised machinery.

Quality and consistency of product are assured by the quality control procedures in place throughout all stages of manufacture.

POLIFLO STAR-GF

Absolute Rated Pleated Depth Polypropylene and Glass Fiber Cartridge Filters

Features and Benefits

- Hybrid pleated/depth construction combines the dirt holding capabilities of continuously spun depth filters, with the precise cut-off characteristics common to pleated media cartridges
- The dual-layer glass media offers excellent flow rates at low differential pressures
- Poliflo Star-GF cartridges are manufactured using high quality components made from non-toxic and biologically inert raw materials. All components are FDA listed for food contact in the Code of Federal Regulations (CFR), Title 21
- Fusion bonded construction for high integrity and minimum extractables
- Poliflo Star-GF cartridges contain no added surfactants or wetting agents that could alter taste
- Advanced cartridge design coupled with enhanced thermal stability of the glass media ensures cartridge integrity is maintained during multiple cycles of hot water sanitation and in-line steam sterilisation

Specifications

Absolute Particle Retention

Rating (β 5000) 99.98% efficient 0.6 μ, 1 μ, 2 μ

Materials of Manufacture

Filter Medium Prefiltration Layer	Polypropylene
Final Filtration Layer	Glass Fibre
Irrigation/support	Polypropylene
Drainage Layer	Polypropylene
Cartridge Hardware	Polypropylene
Adapter Insert (where applicable)	316 Stainless Steel
Standard 'O' Ring	Silicone/EPDM

Technical Data

Cartridge Dimensions

Diameter	70 mm (2.8")
Length	125 mm (5")
	250 mm (10")
	510 mm (20")
	760 mm (30")
	1020 mm (40")

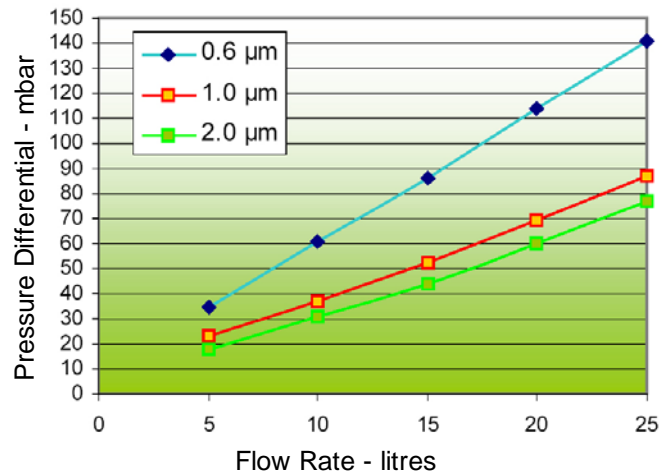
Maximum Differential Pressure

Normal Flow Direction at:	
20° C (68°F)	6.0 bar (87lb/in ²)
80° C (176°F)	4.0 bar (57lb/in ²)
100° C (212°F)	3.0 bar (43lb/in ²)
120° C (248°F)	2.0 bar (29lb/in ²)
125° C (257°F)	1.5 bar (22lb/in ²)
Reverse Flow Direction at:	
20° C (68°F)	2.1 bar (30lb/in ²)
80° C (176°F)	1.0 bar (15lb/in ²)
100° C (212°F)	0.5 bar (7lb/in ²)

Maximum recommended short term operating temperature

80° C (180°F)

Clean Water Flow Rates



Test Conditions
 Typical clean water flow rate – based on a 250mm (10") single cartridge Fluxa Filtri housing exhibiting the differential pressure characteristics indicated above, for solutions with a viscosity of 1 centipoise.

Sterilisation

- In-line steam sterilisation. Cartridges can be repeatedly in-line steam sterilised or autoclaved up to 125°C (257°F) maximum.
- Hot water sanitation. Cartridges can be repeatedly hot water sanitised at 80°C (140°F)
- Validation Guide available on request

Applications

- **Process Water Systems** - for the filtration of process water in pure water supply systems
- **Food and Beverage** - for clarification of foods and beverages including syrup, beer, wine and spirits
- **Cosmetics** - for clarification and sterilisation of intermediates and final products
- **Pharmaceuticals and Bioprocessing** - for batch preparation of intermediates used in manufacture

Cartridges part numbering guide

SGP 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")	A6	0,6 μ	0	DOE	E	EPDM	F	Flushed Pyrogen free Water	P	Pharmaceutical Grade
10	250 mm (10")	01	1 μ	3	COD.3	S	SILICONE			X	Special
20	510 mm (20")	02	2 μ	7	COD.7	N	NITRILE				
30	760 mm (30")			8	COD.8	V	VITON	N	Net outer		
40	1020 mm (40")			9	COD.9	P	PTFE	R	Rinsed		
				X	SPECIAL		PTFE	S	STD Hard Cage		
						G	ENCAPSULATED SILICONE	X	Special		
						X	SPECIAL				