

# Poliflo II Capsule PP&GF

## PLEATED DEPTH MEDIA FILTER CAPSULES

**Poliflo II** pleated depth media capsules are fully disposable filter units for small and medium scale liquid and gas processing applications. They are ready-to-use, avoiding the need to purchase or maintain filter housing and are easy to change-out with minimum downtime. The filtration unit is permanently enclosed inside the capsule shell to minimise post-use cleaning and operator exposure to process fluids.

**Poliflo II Capsules** are available with pleated polypropylene or Borosilicate Glass microfibre media and offered with a range of inlet/outlet connections to suit most process systems. The filters are supplied in a wide range of lengths from 127 mm to 824 mm long.

### Poliflo II CP Capsule

- 100% polypropylene construction
- Absolute removal rating
- Wide chemical compatibility

### Poliflo II CF Capsule

- Borosilicate Glass Microfibre media
- 100% polypropylene hardware
- Available absolute removal ratings
- Wide chemical compatibility

### Product Features

- Thermally bonded and adhesive free construction
- Capsules are non-pyrogenic and can be autoclaved
- Materials meet US FDA CFR Title 21 requirements
- Available in a range of grades and pore size
- Manufactured in clean room facilities under ISO quality system



## POLIFLO II CAPSULES FEATURES AND BENEFITS

- Fully disposable unit avoids the need to purchase a filter housing
- Ready to use for easy filter change-out and minimum downtime
- Enclosed filter unit minimises operator exposure and post-use cleaning
- Wide range of inlet and outlet connections available so suitable for most process systems
- All polymer construction
- Full product validation guide available

## INDUSTRIES AND APPLICATIONS

- Development and pilot plant applications
- Equipment requiring filtration e.g. laboratory water treatment systems, printing equipment, etc
- Hospital critical water applications e.g. endoscope washing machines, dialysis equipment
- Venting and process air filtration
- Manufacturers of small or medium size batches of products where batch to batch cleaning is an issue
- Multi-purpose plants where flexibility is needed

## TECHNICAL DATA

### Dimensions

Outside Diameter: 90 mm

Filter Module Length	Nominal Capsule Length (Hose Barb connections)	Nominal Media Surface Area	Capsule Volume (Litres)
50 mm (2")	127 mm	0.09 m <sup>2</sup>	0.23
125 mm (5")	220 mm	0.26 m <sup>2</sup>	0.57
250 mm (10")	339 mm	0.54 m <sup>2</sup>	1.0
500 mm (20")	582 mm	1.08 m <sup>2</sup>	1.9
750 mm (30")	824 mm	1.62 m <sup>2</sup>	2.8

### Sterilisation and Sanitisation

Autoclave: 127°C for 20 mins (multiple cycles)  
 Hot Water: Up to 90°C

### Maximum Operating Conditions

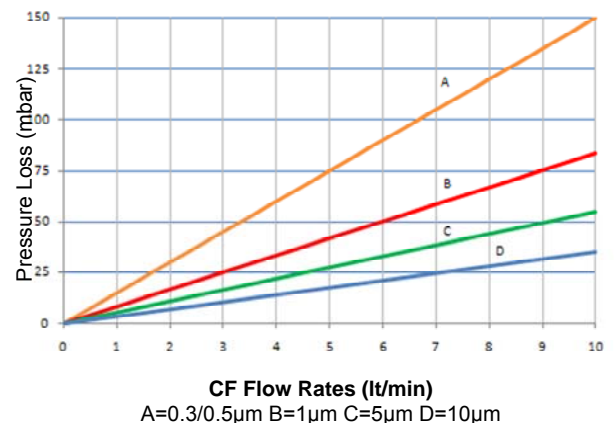
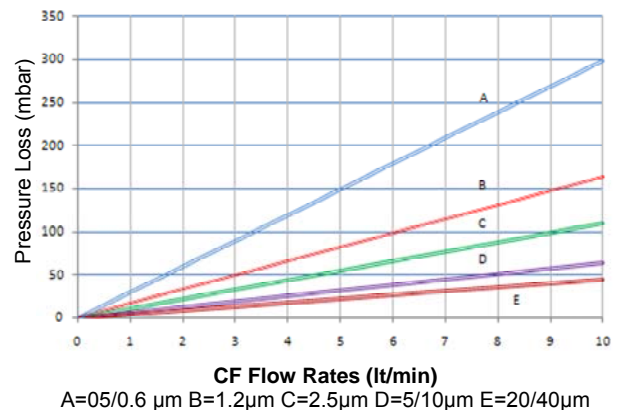
Maximum Temperature: 43°C @ 2.0 Bar  
 Maximum Pressure: 5.5 Bar @ 20°C (liquid)  
 4.1 Bar @ 20°C (Gas)  
 Max Differential Pressure: 3.4 Bar @ 20°C Forward Flow  
 2.7 Bar @ 20°C Reverse Flow

### Materials of Construction

Filter media: P - Polypropylene or  
 F - Borosilicate Glass Microfibre  
 Media support: Polypropylene  
 Capsule Assembly: Polypropylene  
 Vent and Drain Valves: Polypropylene Luer-lok

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

Flow Rates For Water (2" Capsule)



## ORDERING GUIDE

C — ○ G — ○ ○ — ○ ○ ○ — ○ ○ ○

Media	Length	Micron Rating	Inlet	Outlet	Option
P - Polypropylene	02 - 127 mm	<b>FP</b>	A - 8.5 - 16 mm	A - 8.5 - 16 mm	
F - Borosilicate	05 - 220	003 - 0.03 µm	Hosebarb	Hosebarb	
Glass Microfibre	09 - 339	005 - 0.5	B - ¼" NPT 'M'	B - ¼" NPT 'M'	
	20 - 582	010 - 1.0	C - ¼" NPT 'F'	C - ¼" NPT 'F'	
	30 - 824	050 - 5.0	D - ⅜" NPT 'F'	D - ⅜" NPT 'F'	
		100 - 10	E - ½" NPT 'M'	E - ½" NPT 'M'	
		<b>PP</b>	F - ½" NPT 'F'	F - ½" NPT 'F'	
		005 - 0.5 µm	G - 1/1½" Sanitary	G - 1/1½" Sanitary	
		006 - 0.6	Flange	Flange	
		012 - 1.2			
		025 - 2.5			
		050 - 5.0			
		100 - 10			
		200 - 20			
		400 - 40			

Example: C-PG20 - 012 - GA = Polypropylene media, 1.2 µm, 20" long, Sanitary Flange inlet and Hosebarb outlet.

55\_02\_EN



UK Office:

Envirogen Group  
Unit 14a Bromyard Road  
Trading Estate  
Bromyard Road, Ledbury  
Herefordshire HR8 1NS  
Tel: +44 (0) 1531 636328  
E: [info@envirogen.com](mailto:info@envirogen.com)  
[www.envirogen.com](http://www.envirogen.com)



Italian Office:

Envirogen Group Italy S.p.A  
Viale De GASPERI,88/B  
20017 Mazzo di Rho Milano  
Tel: +39 (0)2 93959.1  
E: [info.it@envirogen.com](mailto:info.it@envirogen.com)  
[www.envirogen.com](http://www.envirogen.com)



USA Office:

Envirogen Technologies  
Two Kingwood Place  
700 Rockmad Dr. Suite 105  
Kingwood, TX 7739  
Tel: +1 877.312.8950  
E: [info@envirogen.com](mailto:info@envirogen.com)  
[www.envirogen.com](http://www.envirogen.com)