

POLIFLO II CARTRIDGES

PES & PTFE E61

- 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

Poliflo II microfiltration membrane 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 housings 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 PES (polyethersulphone) or PTFE membranes 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 50 mm to 750 mm long.



Poliflo II PES Capsule

- Naturally hydrophilic PES Membrane
- Low protein binding
- 100% polypropylene hardware
- Available in a range of absolute removal ratings
- Integrity testable

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

Poliflo II PTFE Capsule

- Naturally hydrophobic PTFE membrane
- 100% polypropylene hardware
- Available in a range of absolute removal ratings
- Integrity testable

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

Dimensions

Filter Module Length	Nominal Capsule Length (Hose Barb connections)	Nominal Media Surface Area	Capsule Volume (Litres)
50 mm (2")	127 mm	0.09 m ²	0.23
125 mm (5")	220 mm	0.28 m ²	0.57
250 mm (10")	339 mm	0.65 - 0.70m ²	1.0
500 mm (20")	582 mm	1.3 - 1.40m ²	1.9
750 mm (30")	824 mm	1.95 - 2.10m ²	2.8

Outside Diameter:
90mm

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

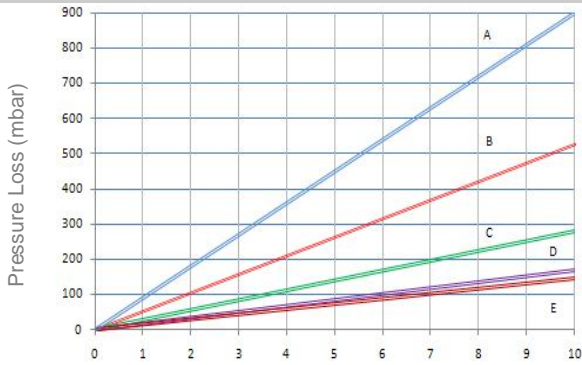
Materials of Construction

Filter media: V - Polyethersulphone (PES) or
T - Polytetrafluoroethylene (PTFE)
Media support: Polypropylene
Capsule Assembly: Polypropylene
Vent and Drain Valves: Polypropylene Luer-lok

Bacterial Challenge

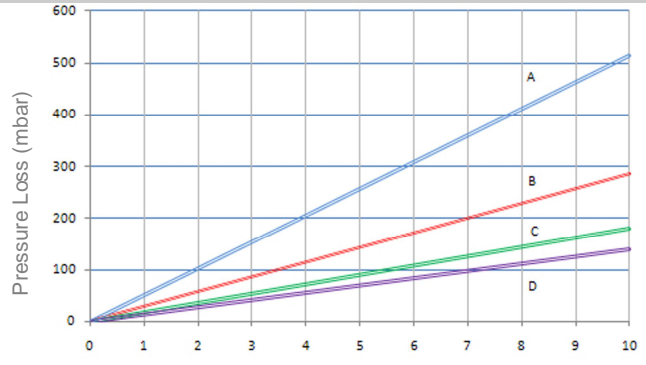
CVB 0.2µ: LRV>10¹¹ (Brevundimonas diminuta (ATCC 19146))
CVB 0.45µ: LRV>10⁸ (Serratia Marcescens (ATCC 14756))

Flow Rates for Water (2" Capsule)



CV Flow Rates (lt/min)

A=0.03µm B=0.1µm C=0.2µm D=0.45µm E=0.65-1.2µm



CT Flow Rates (lt/min)

A=0.1µm B=0.2µm C=0.45µm D=1/3µm

Validation guide and integrity test data available on request. All **Poliflo II Capsules** are manufactured under strict control with batch number identification, giving full traceability on all components.

Ordering Guide

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Media	Grade	Length	Micron Rating µm		Inlet	Outlet	Option
V - Polyethersulphone T - PTFE	G - General	02 - 127mm	PES	PTFE	A - 8.5 - 16 mm Hosebarb	A - 8.5 - 16 mm Hosebarb	
	B - Biological	05 - 220mm	00A - 0.03	001 - 0.1	B - 1/4" NPT 'M'	B - 1/4" NPT 'M'	
		09 - 339mm	001 - 0.1	002 - 0.2	C - 1/4" NPT 'F'	C - 1/4" NPT 'F'	
		20 - 582mm	002 - 0.2	004 - 0.4	D - 3/8" NPT 'F'	D - 3/8" NPT 'F'	
		30 - 824mm	004 - 0.45	010 - 1.0	E - 1/2" NPT 'M'	E - 1/2" NPT 'M'	
			006 - 0.65	030 - 3.0	F - 1/2" NPT 'F'	F - 1/2" NPT 'F'	
			008 - 0.8		G - 1/1 1/2" Sanitary Flange	G - 1/1 1/2" Sanitary Flange	
			010 - 1.0				



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