

# SUPAPORE CAPSULES

## Pleated Membrane Filter Capsules



SupaPore 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.

SupaPore 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 50mm to 750mm long.

### SupaPore VC Capsules

- Naturally hydrophilic PES membrane
- Low protein binding
- 100% polypropylene hardware
- Available in a range of Absolute removal ratings
- Integrity testable
- Presterilised option available (gamma irradiated at minimum 25 kG)



### SupaPore TC Capsules

- 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 sizes
- Manufactured in clean room facilities under ISO quality system

## Features and Benefits

- Fully disposable unit avoids the need to purchase a filter housing
- Presterilised option provides maximum convenience
- 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

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# SupaPore Capsules Technical Data

## Dimensions

Outside Diameter: 90mm

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

## Sterilisation and Sanitisation \*Applies to non gamma sterilised option only

Autoclave: 127°C for 30 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)

Recommended change-out differential pressure: 2.5 Bar

## Materials of Construction

Filter media: V - Polyethersulphone (PES) or  
T - Polytetrafluoroethylene (PTFE)

Media Support: Polypropylene

Capsule Assembly: Polypropylene

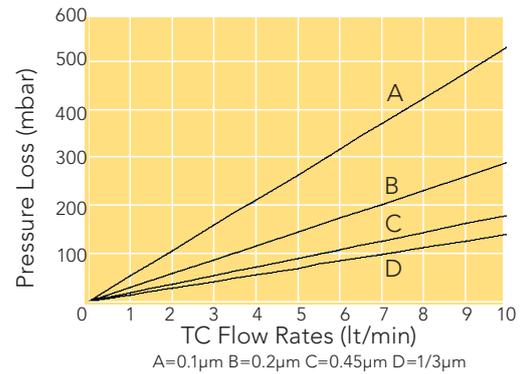
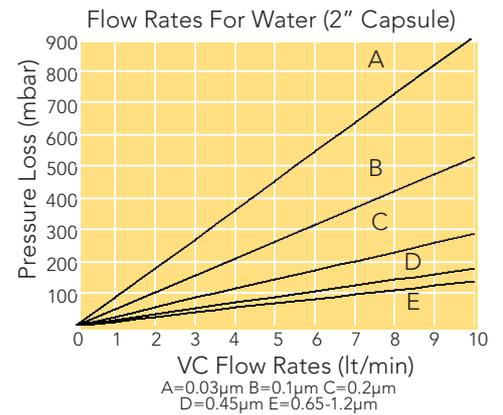
Vent and Drain Valves: Polypropylene Luer-Lok

## Bacterial Challenge

16VCB002: LRV>10<sup>11</sup> (*Brevundimonas diminuta* (ATCC 19146))

16VCB004: LRV>10<sup>8</sup> (*Serratia marcescens* (ATCC 14756))

Validation guide and Integrity test data available on request. All SupaPore capsules are manufactured under strict control with batch number identification, giving full traceability on all components.



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