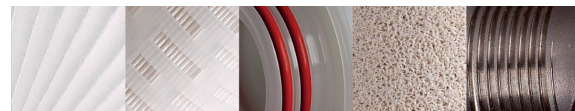


SUPACAP VPB

Pleated Membrane Filter Capsules



SupaCap VPB microfiltration membrane capsules are fully disposable filter units for small and medium scale liquid 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.

SupaCap VPB capsules are available with pleated PES (polyethersulphone) 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 75mm to 767mm (2" to 30") long and a diameter of 90mm.



Product Features

- Thermally bonded and adhesive free construction
- Capsules are non-pyrogenic and can be autoclaved multiple times
- 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

SupaCap VPB Capsules - PES

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



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
- Ergonomically designed vents making them easy to grip
- Positive sealing with 'o' rings rather than face to face sealing, guaranteeing no leaks during integrity tests
- Filter module welded to capsule body to eliminate internal endcap seals
- 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
- 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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SupaCap VPB Technical Data

Dimensions

Outside Diameter: 90mm

Sterilisation and Sanitisation

Autoclave: 121°C for 25 Cycles of 30 mins each

Hot Water: Up to 90°C

Maximum Operating Conditions

Maximum Temperature: 43°C @ 2 bar

Maximum Pressure: 5.5 bar @ 20°C (Liquid)
4.1 bar @ 20°C (Gas)

Maximum Differential Pressure: 3.4 bar @ 20°C (Forward flow)
2.7 bar @ 20°C (Reverse flow)

Recommended change-out differential pressure: 2.5 Bar

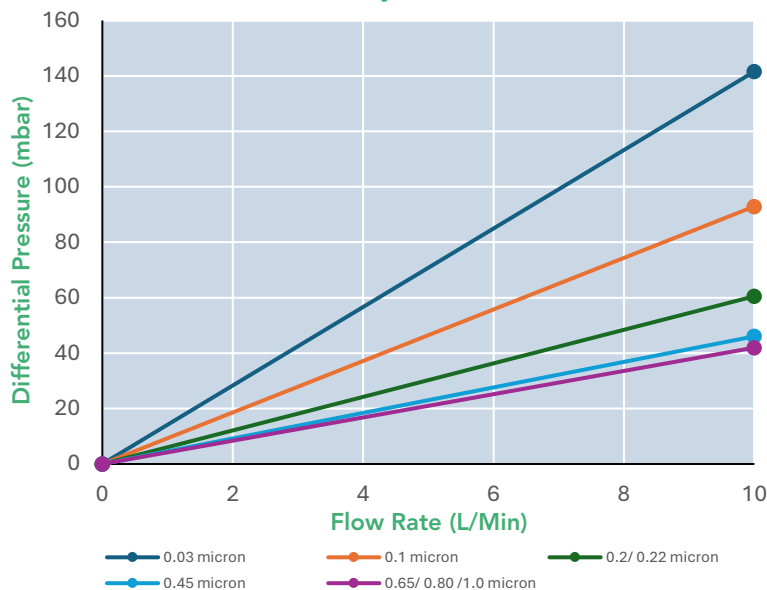
Standard Materials of Construction

Filter Media: Polyethersulphone (PES)
Media Support: Polypropylene
Assembly: Polypropylene

Microorganism Removal Efficiency (per 10" cartridge)

1716VPB001:	LRV > 3 (Acholeplasma laidlawii (ATCC 23206))
1716VPB002:	LRV > 11 (Brevundimonas diminuta (ATCC 19146))
1716VPB004:	LRV > 8 (Serratia marcescens (ATCC 14756))

Flow Rates - Water (10" filter capsule with sanitary connections)



Micron rating (µm)	Bubble Point in Water	Diffusional Flow (cc/min/10") In Water
0.03	See *1	≤ 30 @ 4138mBar
0.1	See *1	≤ 30 @ 3310mBar
0.2	3030mBar (44 psi)	≤ 30 @ 2410mBar
0.45	1720mBar (25 psi)	≤ 30 @ 1380mBar
0.65	1310Bar (19 psi)	≤ 30 @ 1030mBar
0.8	1030mBar (15 psi)	≤ 30 @ 830mBar
1.0	690mBar (10 psi)	≤ 30 @ 550mBar

*1 - Bubble point test pressure exceeds the operational limits of the capsules. Use Diffusional Flow Test instead.

Ordering Guide

1716VP B 001 - 09 G S A

Media	Grade	Micron Rating (µm)	Length (mm)	Paired Connections	Vent Seal	Branding	Mixed Connections*2	
							Inlet	Outlet
1716VP - PES	B - Biological	00A - 0.03 001 - 0.1 002 - 0.2 004 - 0.45 006 - 0.65 008 - 0.8 010 - 1.0	02 - 75 (2") 05 - 155 (5") 09 - 268 (10") 20 - 518 (20") 30 - 767 (30")	A - 8.5-16mm Hosebarb Tapered B - ¼" NPTM C - ¼" NPTF D - ¾/8" NPTF G - 1" Sanitary Flange BS4825 J - 12mm Hosebarb Straight M - Mixed Inlet & outlet connections (All connections are the same for inlet and outlet. Different combinations are available by choosing the M option in this column and then specifying the combination of inlet and outlet connections required in the suffixes at the end of the part number e.g: 1716VPB001-09MSAGA)	E - EPDM S - Silicone V - Viton	A - Amazon	A B C D G J	A B C D G J

Example: 1716VPB001-09GSA = PES media, Biological grade, 0.1µm, 10" long, 1" sanitary flange connections and Silicone seal.

*2 - See Paired Connections column for individual connection description

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