

SUPACAP TPB

Pleated Membrane Filter Capsules



SupaCap TPB microfiltration membrane capsules are fully disposable filter units for small and medium scale air 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.

SupaCap TPB capsules are available with 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 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 TPB Capsules - PTFE

- Naturally hydrophobic PTFE membrane
- 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 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 of air and gas
- 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



SupaCap TPB 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

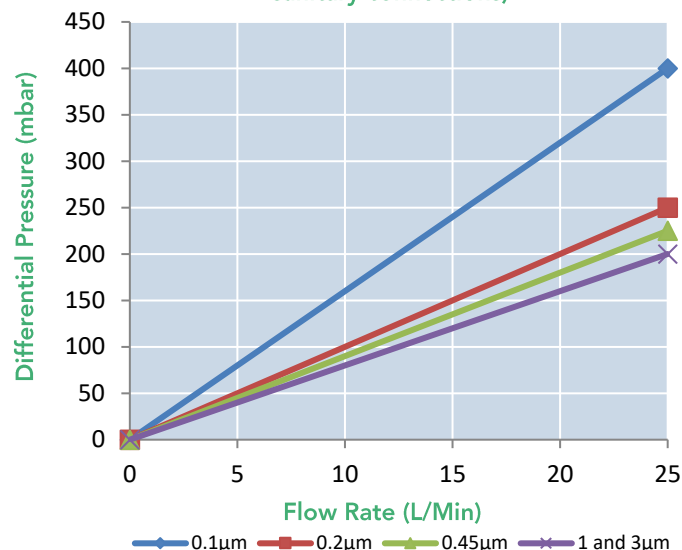
Standard Materials of Construction

Filter Media: Polytetrafluoroethylene (PTFE)
 Media Support: Polypropylene
 Assembly: Polypropylene

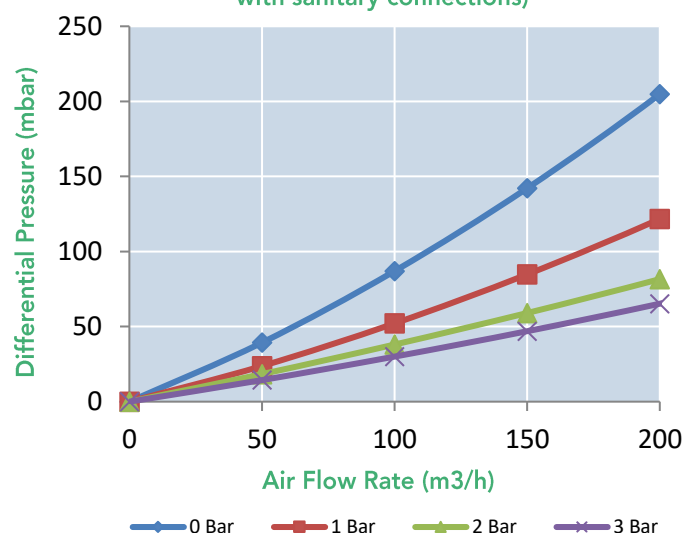
Micron rating (0.2µm)	Bubble Point in 60/40 IPA/Water	Water Intrusion Test Pressure		Max Water Intrusion (ml/10 min)
		Bar	PSI	
2"	1.2 Bar (18 psi)	2.41	35	1.9
5"	1.0 Bar (14.5psi)	2.50	36.6	7
10"	1.0 Bar (14.5psi)	2.50	36.6	13
20"	1.0 Bar (14.5psi)	2.50	36.6	26
30"	1.0 Bar (14.5 psi)	2.50	36.6	39

n.b. refer to the validation guide for details on other micron ratings

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



Flow Rates - Air (10", 0.2µm filter capsule with sanitary connections)



Ordering Guide

1716TP	B	001 -	09	G	S	A	Mixed Connections*1	
Media	Grade	Micron Rating (µm)	Length (mm)	Paired Connections	Vent Seal	Branding	Inlet	Outlet
1716TP – PTFE	B – Biological	001 – 0.1 002 – 0.2 004 – 0.45 010 – 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" 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: 1716TPB001-09GSA = PTFE media, Biological grade, 0.1µm, 10" long, 1" sanitary flange connections and Silicone seal.

*1 – See Paired Connections column for individual connection description

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