



# ABSFLU VO™

Hydrophobic PTFE Membrane Filters for the Air & Gas Filtration



## INDUSTRIES & APPLICATIONS

-  **Food & Beverage** : Air & Gases, Vent
-  **Pharmaceuticals** : Air & Gases, Vent

ABSFLU VO™ is a hydrophobic PTFE membrane filter designed for both particle removal and sterilization of air and gas in a wide range of applications.

ABSFLU VO™ utilizes a highly efficient expanded PTFE membrane that is inherently hydrophobic, which minimizes the risk of condensation of water vapor.

## FEATURES & BENEFITS

- Reliable particle removal efficiency with lower differential pressure drops
- High surface area provides extended filter service life
- 100% flushed with 18MΩ ultrapure water
- 100% integrity tested
- No binders are present to interrupt product quality
- All polypropylene construction provides excellent chemical compatibility and very low level of extractables
- Available in a wide range of end styles and micron ratings

## TECHNICAL DATA

### Nominal Dimensions

#### Cartridge 68Ø

- Length : 250, 500, 750, 1000 mm
- Inner Diameter : 30 mm
- Outer Diameter : 68 mm

#### CAP I

- Length : 143, 216 mm
- Outer Diameter : 71, 73 mm

#### CAP II

- Length : 203, 212 mm
- Outer Diameter : 97 mm



## Capsule series CAP I and CAP II



\* For details, see the Appendix II – Capsule Filter Types

## Materials of Construction

- **Filtration Media** : Hydrophobic PTFE (Polytetrafluoroethylene)
- **Support Media** : Polypropylene
- **Inner Core** : Polypropylene
- **Outer Cage** : Polypropylene
- **End Caps** : Polypropylene
- **Shell** : Polypropylene
- **Insert** : STS 304
- **O-rings / Gaskets** : Silicone, EPDM, Viton, TEV

## Max. Operating Temperature

- Cartridge : 80°C (176°F)
- Capsules : 60°C (140°F)

## Max. Operating Forward Differential Pressure

- 4 bard (58.0 psid) at 20 °C
- 3 bard (43.5 psid) at 40 °C
- 2 bard (29.0 psid) at 60 °C
- 1 bard (14.5 psid) at 80 °C

# ABSFIL

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**Recommended Change Out Differential Pressure**

2 bard (29.0 psid)

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**Endotoxin**

Meet the requirements of the USP <85> LAL Test, ≤ 0.25EU/ml

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**Filtration Area**

- Cartridge 68Ø : 0.7 m<sup>2</sup> / 10 inch
- CAP I : 0.14 m<sup>2</sup> / unit
- CAP II : 0.34 m<sup>2</sup> / unit

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**Nominal Pore Sizes**

0.2 µm

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**TOC (Total Organic Carbon)**

Meet the requirements of the USP <643> TOC, <500ppb

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**Bacterial Retention**

≥ LRV7

\* Performed in accordance with ASTM F 838-15, ATCC 19146 Brevundimonas diminuta

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**Conductivity**

Meet the requirements of the USP <645> Conductivity, <1.3uS/cm

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**Food Contact Compliance**

All materials of construction are FDA listed and conform to the relevant requirements of 21 CFR 177

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**NVR (Non-Volatile Residue)**

Meet the requirements of the USP <661> NVR, <15mg

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**Biological Safety**

All materials of construction are conform to the relevant requirements of USP <88> Class VI-121°C, plastics

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**Autoclave Sterilization**

Can be repeatedly autoclaved up to 10cycles of 30minutes at 121°C

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**Particle Releasing**

Meet the requirements of USP<788> Particulate matter, ≤ 25particles/ml at 10µm, ≤ 3particles/ml at 25µm

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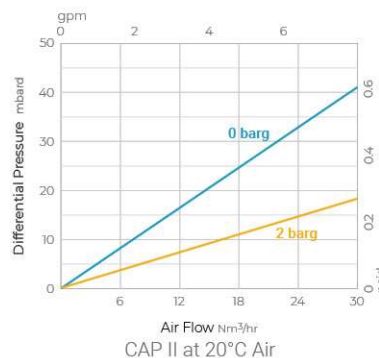
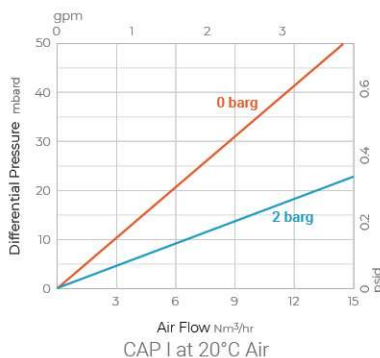
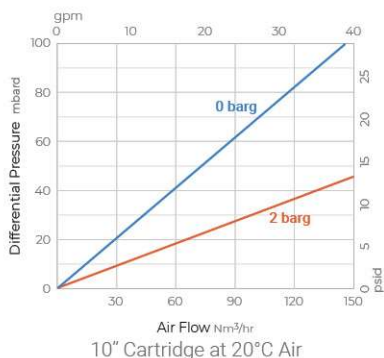
**Pre-Flush**

Pre-flushed with 18 MΩ UPW at 10LPM for 5min

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**TYPICAL CLEAN WATER FLOW**

**CARTRIDGE & CAP**



**ORDERING INFORMATION**

**CARTRIDGES**

①	②	③	④	⑤
<b>TVO</b>	<b>001</b>	<b>E3</b>	<b>V</b>	<b>10</b>
<b>MICRON RATING</b>		<b>END STYLE</b>	<b>SEALS</b>	<b>LENGTH</b>
P20 : 0.2µm		C1 : DOE C2 : 226Lock/FLAT C3 : c222/cFLAT E3 : 222/FLAT C7 : 226Lock/FIN E8 : 222/FIN	S : Silicone E : EPDM V : Viton F : TEV	10 : 250mm 20 : 500mm 30 : 750mm 40 : 1,000mm 1E : 254mm 2E : 508mm 3E : 762mm 4E : 1,016mm

**CAPSULE SERIES**

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