

ABSNON PS™

Nylon Membrane Filters for the Pharmaceuticals



INDUSTRIES & APPLICATIONS



Pharmaceuticals : Process chemicals, API, Solvents, Endotoxin reduction

ABSNON PS™ is a Nylon66 membrane sterile filter with an all-polypropylene construction designed for a wide range of filtration in the bio and pharmaceutical industries.

ABSNON PS™ are made up of a multi-zone Nylon66 membrane in an all-polypropylene construction with a high surface area, providing for very low pressure drops and longer filter service life. Nylon is characterized as a polymer with polar functional groups, which effectively help the filters retain polar particles, endotoxin, microorganisms and gel contaminants.

FEATURES & BENEFITS

- Asymmetric pore structure and thicker membrane provides high dust holding capacity and longer filter life
- Inherently hydrophilic property minimizes initial pressure drop
- Fully validated
- 100% flushed with UPW water and integrity tested
- Repeatedly integrity testable and steam sterilizable
- No binders are present to interrupt product quality
- All polypropylene construction provides excellent chemical compatibility
- Available in a wide range of end styles and micron ratings

TECHNICAL DATA

Nominal Dimensions

Cartridge 68Ø

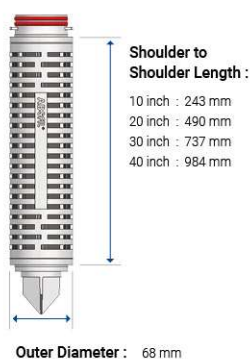
- Length : 250, 500, 750, 1000 mm
- Inner Diameter : 30 mm
- Outer Diameter : 68 mm

CAP I

- Length : 143, 216 mm
- Outer Diameter : 71 mm / 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 : Nylon
- 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

Recommended Change Out Differential Pressure

2 bard (29.0 psid)

Endotoxin

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

Filtration Area

- Cartridge 68Ø : 0.6 m² / 10 inch
- CAP I : 0.11 m² / unit
- CAP II : 0.29 m² / unit

Nominal Pore Sizes

0.1, 0.2, 0.45, 1 µm

TOC (Total Organic Carbon)

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

Bacterial Retention

\geq LRV7

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

Conductivity

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

Food Contact Compliance

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

NVR (Non-Volatile Residue)

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

Biological Safety

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

Autoclave Sterilization

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

Particle Releasing

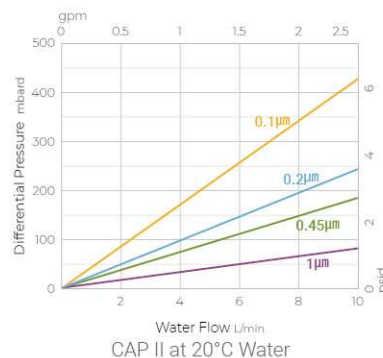
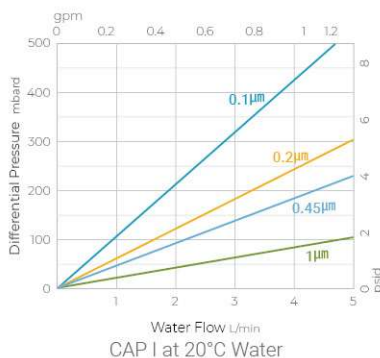
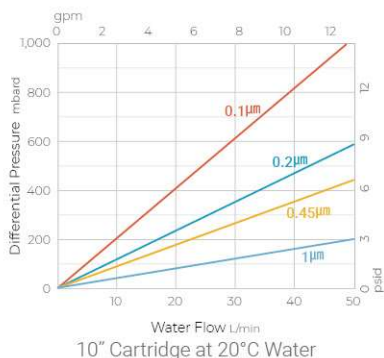
Meet the requirements of USP<788> Particulate matter, ≤ 25 particles/ml at 10µm, ≤ 3 particles/ml at 25µm

Pre-Flush

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

TYPICAL CLEAN WATER FLOW

CARTRIDGE & CAP



ORDERING INFORMATION

CARTRIDGES

| | | | | |
|------------|---|---|--|--|
| ① | ② | ③ | ④ | ⑤ |
| NPS | 001 | C1 | P | S |
| | MICRON RATING | END STYLE | SEALS | LENGTH |
| | P10 : 0.1µm P20 : 0.2µm P45 : 0.45µm 001 : 1µm | 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

| ① | ② | ③ | ④ | ⑤ | ⑥ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------|-------------------|--|--------------|---------------|-------------------|--------------|-------|----|---------------|---------------|----|----------|--|----|---------------|----------|-------|----|---------------|--|----|-------------------|-----------|----|----|----|----|--------------|----------------|--|--|------|------|-------|---------------|-------|---------------|
| C1 | NPS | 001 | S6 | P | S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | IS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FILTER TYPE | | | END STYLE | SEALS | LENGTH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C1 : CAP I C2 : CAP II | | | <table border="1"> <thead> <tr> <th>TYPE</th> <th>CODE</th> <th>In/Out Connection</th> <th>Vent / Drain</th> </tr> </thead> <tbody> <tr> <td rowspan="3">CAP 1</td> <td>S6</td> <td>1/4" Swagelok</td> <td>1/8" Swagelok</td> </tr> <tr> <td>N6</td> <td>1/4" NPT</td> <td></td> </tr> <tr> <td>F9</td> <td>1/8" Flaretek</td> <td>1/8" NPT</td> </tr> <tr> <td rowspan="4">CAP 2</td> <td>F9</td> <td>3/8" Flaretek</td> <td></td> </tr> <tr> <td>P6</td> <td>1/4" Super Pillar</td> <td>1/8" Luer</td> </tr> <tr> <td>CL</td> <td>CL</td> <td>NA</td> </tr> <tr> <td>FE</td> <td>1.5" Ferrule</td> <td>1/4" Hose Barb</td> </tr> </tbody> </table> | TYPE | CODE | In/Out Connection | Vent / Drain | CAP 1 | S6 | 1/4" Swagelok | 1/8" Swagelok | N6 | 1/4" NPT | | F9 | 1/8" Flaretek | 1/8" NPT | CAP 2 | F9 | 3/8" Flaretek | | P6 | 1/4" Super Pillar | 1/8" Luer | CL | CL | NA | FE | 1.5" Ferrule | 1/4" Hose Barb | X : NA S : Silicone E : EPDM V : Viton F : TEV | <table border="1"> <thead> <tr> <th>TYPE</th> <th>CODE</th> </tr> </thead> <tbody> <tr> <td>CAP 1</td> <td>1S : Standard</td> </tr> <tr> <td>CAP 2</td> <td>2S : Standard</td> </tr> </tbody> </table> | TYPE | CODE | CAP 1 | 1S : Standard | CAP 2 | 2S : Standard |
| TYPE | CODE | In/Out Connection | Vent / Drain | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CAP 1 | S6 | 1/4" Swagelok | 1/8" Swagelok | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | N6 | 1/4" NPT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | F9 | 1/8" Flaretek | 1/8" NPT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CAP 2 | F9 | 3/8" Flaretek | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | P6 | 1/4" Super Pillar | 1/8" Luer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CL | CL | NA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | FE | 1.5" Ferrule | 1/4" Hose Barb | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TYPE | CODE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CAP 1 | 1S : Standard | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CAP 2 | 2S : Standard | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MICRON RATING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P10 : 0.1µm P20 : 0.2µm P45 : 0.45µm | 001 : 1µm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |