



# ABS NOS FH™

Hydrophilic PVDF Nanofibrous Membrane Filters



## INDUSTRIES & APPLICATIONS

-  **Electronics** : Process chemicals
-  **Chemicals** : Acids, Bases, Solvents

ABS NON FH™ are hydrophilic PVDF membrane filters designed for particulate matter removal in a wide range of applications.

ABS NON FH™ is made up of PVDF nanofiber webs thinner than 200 nanometers, which maximizes the porosity of the filter media, which maximizes porosity of the filter media and results in high flow rate with a lower pressure drop and exceptional filter service life. The filter media has very narrow pore size distributions and provide higher particle removal efficiency as well.

## FEATURES & BENEFITS

- Nano fiber web provides higher particle removal efficiency with high flow rates
- High dust holding capacity reduces processing time and maintenance cost
- Cost-effective to reduce expenses
- 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** Hydrophobic PVDF (Polyvinylidene fluoride)
- **Support Media** Polypropylene
- **Inner Core** Polypropylene
- **Outer Cage** Polypropylene
- **End Caps** Polypropylene
- **Shell** Polypropylene
- **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

### Recommended Change Out Differential Pressure

- 2 bard (29.0 psid)

### Nominal Pore Sizes

- 0.2, 0.45, 0.6, 0.8, 1, 3, 5 µm

### Pre-Flush

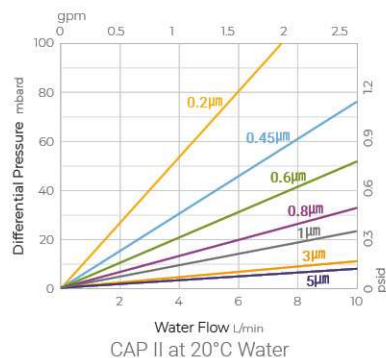
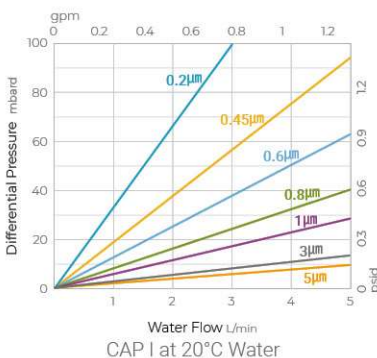
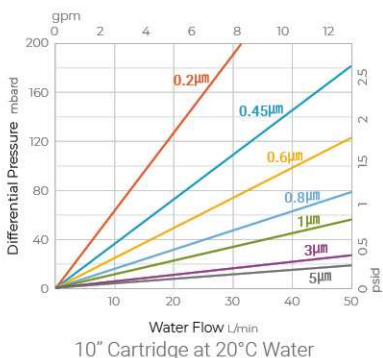
Pre-flushed with 18 MΩ UPW at 10LPM for 5min

### Filtration Area

- Cartridge 68Ø : 0.6 m<sup>2</sup> / 10 inch
- CAP I : 0.11 m<sup>2</sup> / unit
- CAP II : 0.29 m<sup>2</sup> / unit

## TYPICAL CLEAN WATER FLOW

### CARTRIDGE & CAP



## ORDERING INFORMATION

### CARTRIDGES

①	②	③		④	⑤	⑥		
FEH	-	001	-	C7	P	S	10	F
MICRON RATING		END STYLE		SEALS		LENGTH		OPTION
P20 : 0.2μm	001 : 1μm	C1 : DOE	S : Silicone	10 : 250mm	Blank : Standard			
P45 : 0.45μm	003 : 3μm	C2 : 226/FLAT	E : EPDM	20 : 500mm	F : UPW Flush			
P60 : 0.6μm	005 : 5μm	C3 : c226/cFLAT	V : Viton	30 : 750mm				
P80 : 0.8μm		E3 : 222/FLAT	F : TEV	40 : 1,000mm				
		C7 : 226/SPEAR		1E : 254mm				
		E8 : 222/FIN		2E : 508mm				
				3E : 762mm				
				4E : 1,016mm				

### CAPSULE SERIES

①	②	③	④		⑤	⑥	⑦		
C1	FEH	-	001	-	S6	P	S	1S	F
FILTER TYPE			END STYLE		SEALS		LENGTH		OPTION
C1 : CAP I			<b>TYPE</b>	<b>CODE</b>	<b>In/Out Connection</b>	<b>Vent / Drain</b>	<b>TYPE</b>	<b>CODE</b>	
C2 : CAP II			S6		1/4" Swagelok	1/8" Swagelok	CAP 1	1S : Standard	
			N6		1/4" NPT		CAP 2	2S : Standard	
			CAP 1	F9	1/8" Flaretek	1/8" NPT			
				F9	3/8" Flaretek				
				P6	1/4" Super Pillar	1/8" Luer			
				CL	CL	NA			
			CAP 2	F9	3/8" Flaretek				
				FE	1.5" Ferrule	1/4" Hose Barb			
<b>MICRON RATING</b>					<b>SEALS</b>				
P20 : 0.2μm	001 : 1μm				X : NA				
P45 : 0.45μm	003 : 3μm				S : Silicone				
P60 : 0.6μm	005 : 5μm				E : EPDM				
P80 : 0.8μm					V : Viton				
					F : TEV				
							<b>OPTION</b>		
							Blank : Standard		
							F : UPW Flush		