






# ABSPRO BGN™

PP Pleated Filters for the Pharmaceuticals / Nominal Ratings



## INDUSTRIES & APPLICATIONS

-  **Food & Beverage** : Bottle water, Beers, Wines, Syrups, Soft drinks
-  **Pharmaceuticals** : Membrane pre-filtration
-  **Electronics** : Process chemicals, Plating solutions, Wash solutions
-  **Cosmetics** : Process water, Alcohol, Creams, Oils
-  **Water treatment** : Process water clarification, Membrane pre-filtration

ABSPRO BGN™ are nominal rated polypropylene pleated filters designed for a wide range of pre-filtration with a reliable performance in food, beverage, cosmetic, bio and pharmaceutical applications.

ABSPRO BGN™ are made up of double layered polypropylene melt-blown media, providing for very low pressure drops and high flow rates. These filters are the ideal choice for the pre-filtration to membrane filters in high viscosity and high contamination applications by extending the life of the membrane filters and hence reducing filtration costs.

## FEATURES & BENEFITS

- Very thin fiber melt-blown media of the filter meet a broad range of performance requirements
- High dust holding capacity reduces processing time and maintenance cost
- All polypropylene construction provides excellent chemical compatibility and very low level of extractables
- Available in a wide range of end styles and micron ratings
- All materials of construction are FDA listed and conform to the relevant requirements of 21 CFR 177 and USP <88> Class VI-121°C, plastics

## TECHNICAL DATA

### Nominal Dimensions

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

### CAP I

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

### CAP II

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



### 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

### Recommended Change Out Differential Pressure

2 bard (29.0 psid)

### Micron Ratings

0.1, 0.2, 0.45, 1, 3, 5, 10, 20, 30 µm  
 90% (β-Ratio 10) in accordance with modified ASTM F-795-88  
 (Single pass, constant flow of 10LPM/10" cartridge, ISO standard dust A3 in water)

### Capsule series CAP I and CAP II



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

### Materials of Construction

- **Filtration Media** Polypropylene
- **Support Media** Polypropylene
- **Inner Core** Polypropylene
- **Outer Cage** Polypropylene
- **End Caps** Polypropylene
- **Shell** Polypropylene
- **O-rings / Gaskets** Silicone, EPDM, Viton, TEV

### Filtration Area

- **Cartridge 68Ø** : 0.55 m<sup>2</sup> / 10 inch
- **CAP I** : 0.12 m<sup>2</sup> / unit
- **CAP II** : 0.26 m<sup>2</sup> / unit

### Food Contact Compliance

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

### Biological Safety

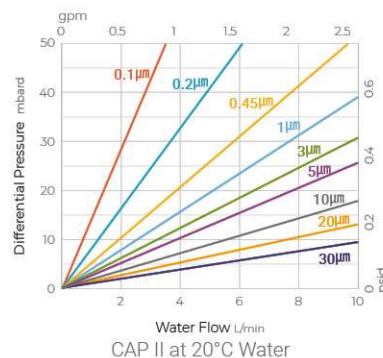
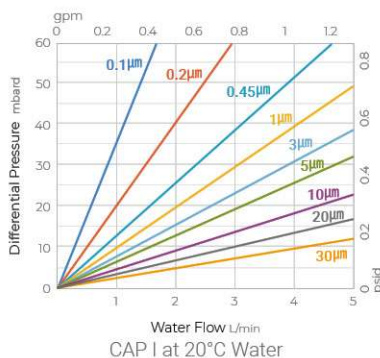
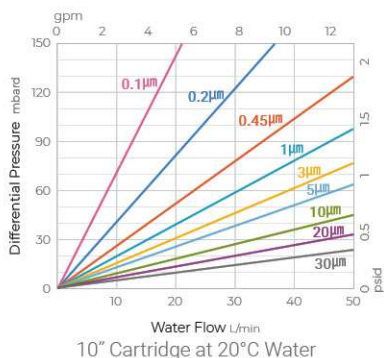
All materials of construction are conform to the relevant requirements of USP <88> Class VI-121°C, plastics

### Particle Releasing

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

**TYPICAL CLEAN WATER FLOW**

**CARTRIDGE & CAP**



**ORDERING INFORMATION**

**CARTRIDGES**

①	②	③	④	⑤	⑥
<b>BGN</b>	<b>001</b>	<b>E3</b>	<b>S</b>	<b>10</b>	<b>G</b>
<b>MICRON RATING</b>		<b>END STYLE</b>	<b>SEALS</b>	<b>LENGTH</b>	<b>OPTION</b>
P10 : 0.1µm	001 : 1µm	C1 : DOE	S : Silicone	10 : 250mm	Blank : Standard
P20 : 0.2µm	003 : 3µm	C2 : 226Lock/FLAT	E : EPDM	20 : 500mm	F : UPW Flush
P45 : 0.45µm	005 : 5µm	C3 : c222/cFLAT	V : Viton	30 : 750mm	S : STS Insert
	010 : 10µm	E3 : 222/FLAT	F : TEV	40 : 1,000mm	
	020 : 20µm	C7 : 226Lock/FIN		1E : 254mm	
	030 : 30µm	E8 : 222/FIN		2E : 508mm	
				3E : 762mm	
				4E : 1,016mm	

**CAPSULE SERIES**

①	②	③	④	⑤	⑥	⑦
<b>C1</b>	<b>BGN</b>	<b>001</b>	<b>S6</b>	<b>S</b>	<b>1S</b>	<b>F</b>
<b>FILTER TYPE</b>		<b>END STYLE</b>			<b>LENGTH</b>	
C1 : CAP I		<b>TYPE</b>	<b>CODE</b>	<b>In/Out Connection</b>	<b>Vent / Drain</b>	<b>TYPE</b>
C2 : CAP II			S6	1/4" Swagelok	1/8" Swagelok	CAP 1
			N6	1/4" NPT		1S : Standard
		<b>CAP 1</b>	F3	1/8" Flaretek	1/8" NPT	CAP 2
			F9	3/8" Flaretek		2S : Standard
			P6	1/4" Super Pillar	1/8" Luer	
		<b>CAP 2</b>	CL	CL	NA	
			F9	3/8" Flaretek		
			FE	1.5" Ferrule	1/4" Hose Barb	
<b>MICRON RATING</b>		<b>SEALS</b>			<b>OPTION</b>	
P10 : 0.1µm	005 : 5µm	X : NA			Blank : Standard	
P20 : 0.2µm	010 : 10µm	S : Silicone			F : UPW Flush	
P45 : 0.45µm	020 : 20µm	E : EPDM				
001 : 1µm	030 : 30µm	V : Viton				
003 : 3µm		F : TEV				