






# ABSPRO BDA™

PP Depth Pleated Filters for the Pharmaceuticals / Absolute 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 BDA™ are absolute rated polypropylene pleated filters designed for a wide range of both pre-filtration and final filtration with a reliable performance in food, beverage, cosmetic, bio and pharmaceutical applications.

ABSPRO BDA™ are multi-layered polypropylene pleated filters made with very thin fibers. These filters are the ideal choice for 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
- Multi-layered filter media construction with graded density provides consistent and reliable filtration performance
- 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

- 0,6, 1, 2, 3, 5, 10, 20, 30 µm
- 99.98% (β-Ratio 5000) 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 : 0.3 m<sup>2</sup> / 10 inch
- CAP I : 0.06 m<sup>2</sup> / unit
- CAP II : 0.15 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

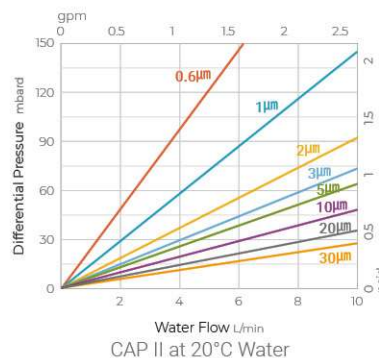
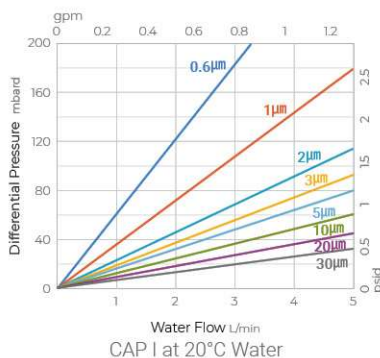
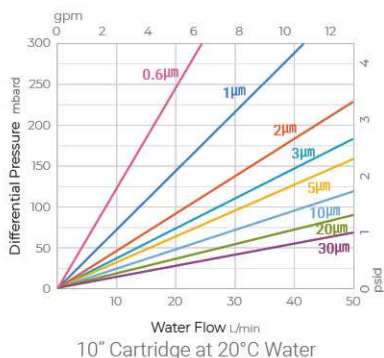
All materials of construction are conform to the relevant requirements of USP <88> Class VI-121°C, plastics

### Particle Releasing

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

**TYPICAL CLEAN WATER FLOW**

**CARTRIDGE & CAP**



**ORDERING INFORMATION**

**CARTRIDGES**

①	②	③	④	⑤	⑥
<b>BDA</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>
P60 : 0.6µm	005 : 5µm	C1 : DOE	S : Silicone	10 : 250mm	Blank : Standard
001 : 1µm	010 : 10µm	C2 : 226Lock/FLAT	E : EPDM	20 : 500mm	F : UPW Flush
002 : 2µm	020 : 20µm	C3 : c222/cFLAT	V : Viton	30 : 750mm	S : STS Insert
003 : 3µm	030 : 30µm	E3 : 222/FLAT	F : TEV	40 : 1,000mm	
		C7 : 226Lock/FIN		1E : 254mm	
		E8 : 222/FIN		2E : 508mm	
				3E : 762mm	
				4E : 1,016mm	

**CAPSULE SERIES**

①	②	③	④	⑤	⑥	⑦
<b>C1</b>	<b>BDA</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>SEALS</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	<b>CODE</b>
			N6	1/4" NPT		CAP 1 1S : Standard
		<b>CAP 1</b>	F3	1/8" Flaretek	1/8" NPT	CAP 2 2S : Standard
			F9	3/8" Flaretek		
			P6	1/4" Super Pillar	1/8" Luer	
			CL	CL	NA	
		<b>CAP 2</b>	F9	3/8" Flaretek		
			FE	1.5" Ferrule	1/4" Hose Barb	
<b>MICRON RATING</b>						<b>OPTION</b>
P60 : 0.6µm	005 : 5µm					Blank : Standard
001 : 1µm	010 : 10µm					F : UPW Flush
002 : 2µm	020 : 20µm					
003 : 3µm	030 : 30µm					