






# ABSPRO DS™

PP Depth Pleated Filters / Long Life



## INDUSTRIES & APPLICATIONS

-  **Electronics** : Process chemicals, Photoresists, CMP slurries, MLCC slurries
-  **Chemicals** : Acids, Bases, Solvents
-  **Coats** : Coating solutions, Paints, Inks
-  **Water treatment** : Process water clarification, Membrane pre-filtration
-  **Petrochemicals** : Amine process, Oils, Resins

ABSPRO DS™ are all polypropylene depth pleated filters designed for following applications: high viscosity fluids, high contaminated fluids, gel/agglomerates removal and slurry dispersion.

ABSPRO DS™ are multi-layered polypropylene depth filters that has graded fiber diameter and density. The construction provides high particle removal efficiency with exceptional filter service life.

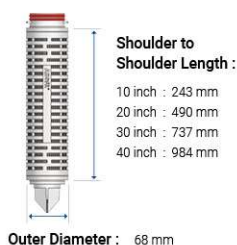
## FEATURES & BENEFITS

- Multi-layered construction maximizes high particle removal efficiency with long filter life in both high viscosity fluids and slurry filtration
- Graded density pore structure provides a long filter life
- High dust holding capacity reduces processing time and maintenance cost
- All polypropylene construction provides excellent chemical compatibility and very low level of extractables
- No binders are present to interrupt product quality
- 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



### Flux series from FLUX I to FLUX V



\* For details, see the Appendix I – Cartridge Filter Types

### Capsule series from CAP I to CAP IV



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

### Recommended Change Out Differential Pressure

2 bard (29.0 psid)

### Materials of Construction

- Filtration Media Polypropylene
- Support Media Polypropylene
- Inner Core 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
- 1 bard (14.5 psid) at 80 °C

### Micron Ratings

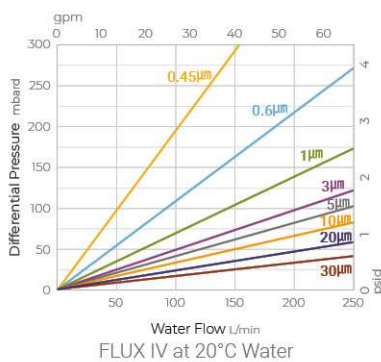
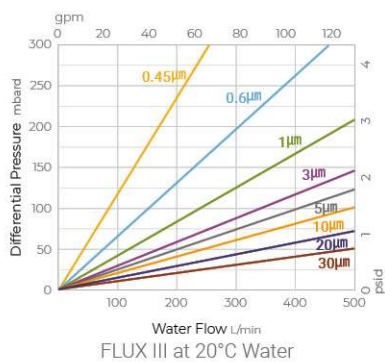
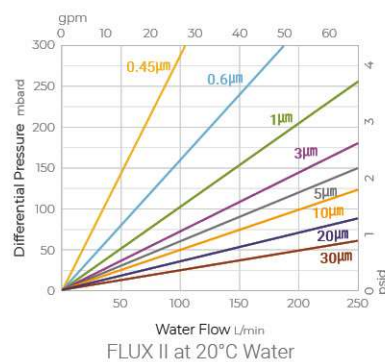
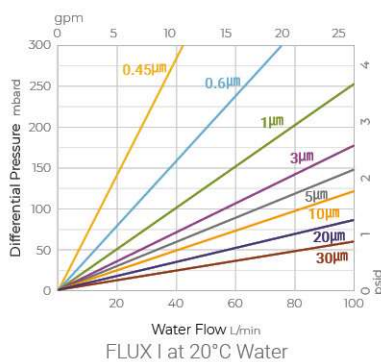
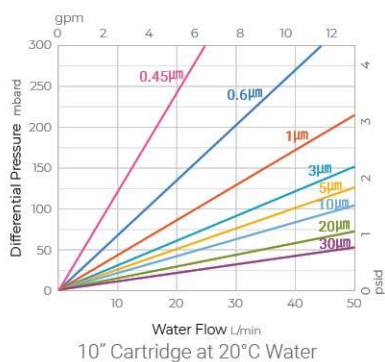
- 0.45, 0.6, 1, 3, 5, 10, 20, 30 µm
- 99% (β-Ratio 100) in accordance with modified ASTM F-795-88
- (Single pass, constant flow of 10LPM/10" cartridge, ISO standard dust A3 in water)

### Filtration Area

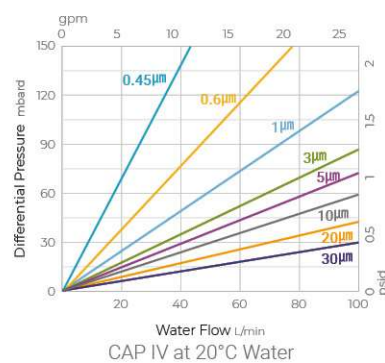
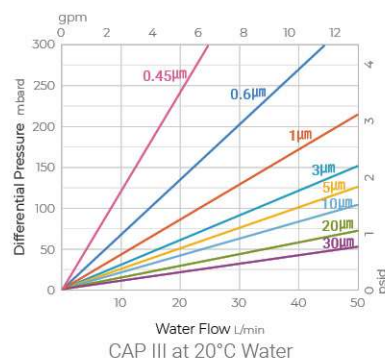
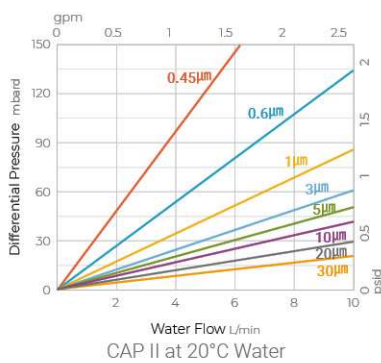
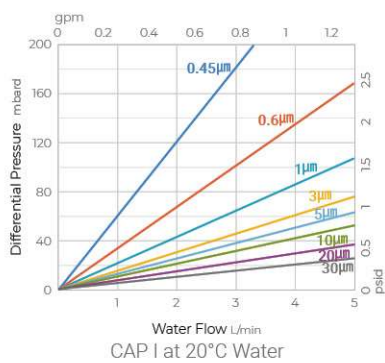
- Cartridge 68Ø : 0.3 m<sup>2</sup> / 10 inch
- FLUX I : 0.5 m<sup>2</sup> / 10 inch
- FLUX II : 1.0 m<sup>2</sup> / 10 inch
- FLUX III : 2.3 m<sup>2</sup> / 20 inch
- FLUX IV : 1.4 m<sup>2</sup> / 20 inch
- CAP I : 0.06 m<sup>2</sup>
- CAP II : 0.15 m<sup>2</sup>
- CAP III : 0.3 m<sup>2</sup> / 10 inch
- CAP IV : 0.8 m<sup>2</sup>

**ORDERING INFORMATION**

**CARTRIDGE & FLUX**



**CAP**



## ORDERING INFORMATION

### CARTRIDGES

①	②	③	④	⑤
PDS	001	C1	P	S
MICRON RATING		END STYLE	SEALS	LENGTH
P45 : 0.45µm	001 : 1µm	C1 : DOE	S : Silicone	10 : 250mm
P60 : 0.6µm	003 : 3µm	C2 : 226Lock/FLAT	E : EPDM	1E : 254mm
	005 : 5µm	C3 : c222/cFLAT	V : Viton	20 : 500mm
	010 : 10µm	E3 : 222/FLAT	F : TEV	2E : 508mm
	020 : 20µm	C7 : 226Lock/FIN		30 : 750mm
	030 : 30µm	E8 : 222/FIN		3E : 762mm
				40 : 1,000mm
				4E : 1,016mm

### FLUX SERIES

①	②	③	④	⑤	⑥
F1	PDS	001	P	S	10
FILTER TYPE	MICRON RATING		END STYLE	SEALS	LENGTH
			TYPE		TYPE
F1 : FLUX I	P45 : 0.45µm		C2 : 226/FLAT	S : Silicone	FLUX I
F2 : FLUX II	P60 : 0.6µm		C3 : 222/FLAT	E : EPDM	FLUX II
F3 : FLUX III	001 : 1µm		2R : Standard O-Ring	V : Viton	FLUX III
F4 : FLUX IV	003 : 3µm		2U : U-CUP Ring	F : TEV	FLUX IV
F5 : FLUX V	005 : 5µm		3R : Standard O-Ring		FLUX V
	010 : 10µm		3U : U-CUP Ring		FLUX III 20 : 20"
	020 : 20µm		4S : Standard O-Ring		FLUX IV 40 : 40"
	030 : 30µm		5S : Standard O-Ring		FLUX V 60 : 60"

### CAPSULE SERIES

①	②	③	④	⑤	⑥
C1	PDS	001	P	S	1S
FILTER TYPE	MICRON RATING		END STYLE	SEALS	LENGTH
			TYPE		TYPE
C1 : CAP I	P45 : 0.45µm	010 : 10µm	S6	X : NA	CAP 1
C2 : CAP II	P60 : 0.6µm	020 : 20µm	N6	S : Silicone	CAP 2
C3 : CAP III	001 : 1µm	030 : 30µm	F3	E : EPDM	CAP 3
C4 : CAP IV	003 : 3µm		F9	V : Viton	CAP 4
	005 : 5µm		P6	F : TEV	
			CL		
			F9		
			FE		
			A1		
			B2		
			A1		