ABSPRO DA™

PP Depth Pleated Filters / Absolute Ratings

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

ABSPRO DA™ are multi-layered polypropylene melt-blown filters made with very thin fibers. The construction provides high particle removal performance with exceptional filter service life.

FEATURES & BENEFITS

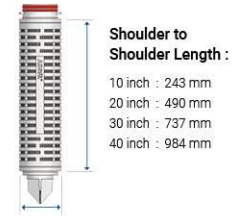
- Multi-layered construction maximizes high particle removal efficiency with long filter life in both high viscosity fluids and slurry filtration
- Graded density pore structure provides a long filter life
- High dust holding capacity reduces processing time and maintenance cost
- All polypropylene construction 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
· **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
1 bard (14.5 psid) at 80 °C

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

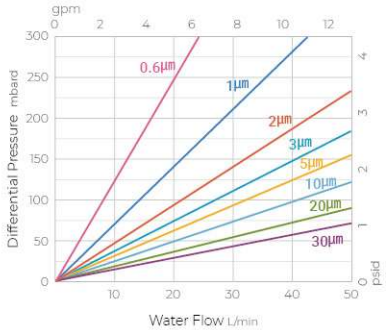
(Single pass, constant flow of 10LPM/10" cartridge, ISO standard dust A3 in water)

Filtration Area

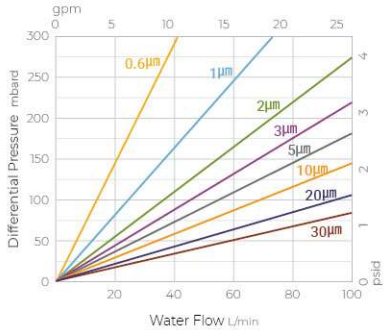
- **Cartridge 68Ø :** 0.3 ㎡ / 10 inch
- **FLUX I :** 0.5 ㎡ / 10 inch
- **FLUX II :** 1.0 ㎡ / 10 inch
- **FLUX III :** 2.3 ㎡ / 20 inch
- **FLUX IV :** 1.4 ㎡ / 20 inch
- **CAP I :** 0.06 ㎡
- **CAP II :** 0.15 ㎡
- **CAP III :** 0.3 ㎡ / 10 inch
- **CAP IV :** 0.8 ㎡

TYPICAL CLEAN WATER FLOW

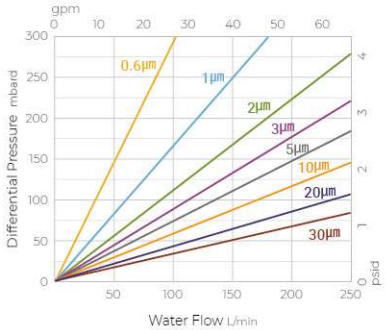
CARTRIDGE & FLUX



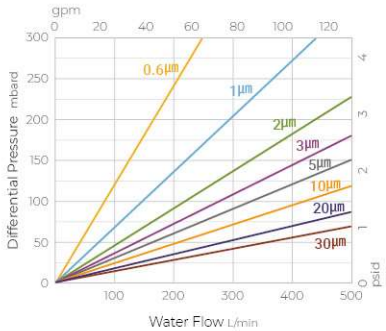
10" Cartridge at 20°C Water



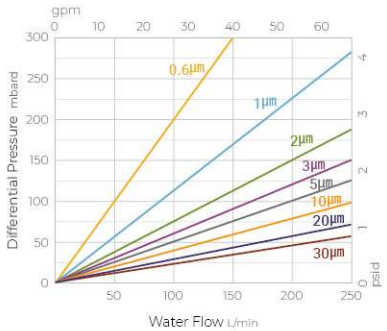
FLUX I at 20°C Water



FLUX II at 20°C Water

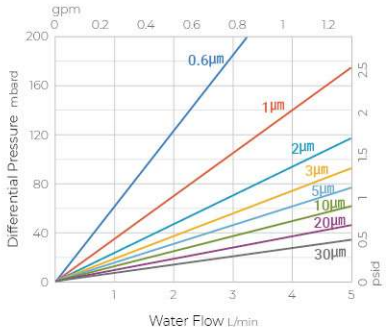


FLUX III at 20°C Water

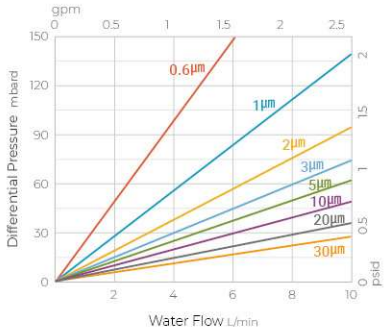


FLUX IV at 20°C Water

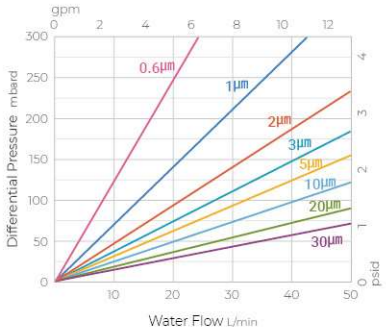
CAP



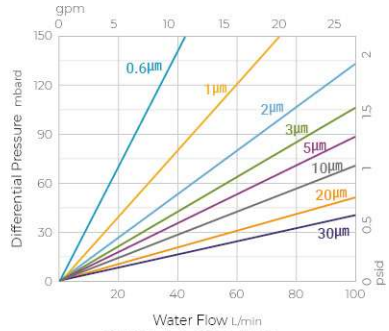
CAP I at 20°C Water



CAP II at 20°C Water



CAP III at 20°C Water



CAP IV at 20°C Water

ORDERING INFORMATION

CARTRIDGES

❶ PDA - ❷ 001 - ❸ C1 P ❹ S ❺ 10

❷ MICRON RATING

P60 : 0.6μm	005 : 5μm
001 : 1μm	010 : 10μm
002 : 2μm	020 : 20μm
003 : 3μm	030 : 30μm

❸ END STYLE

C1 : DOE
C2 : 226Lock/FLAT
C3 : c222/cFLAT
E3 : 222/FLAT
C7 : 226Lock/FIN
E8 : 222/FIN

❹ SEALS

S : Silicone
E : EPDM
V : Viton
F : TEV

❺ LENGTH

10 : 250mm	1E : 254mm
20 : 500mm	2E : 508mm
30 : 750mm	3E : 762mm
40 : 1,000mm	4E : 1,016mm

FLUX SERIES

❶ F1 ❷ PDA - ❸ 001 - ❹ C2 P ❺ S ❻ 10

❶ FILTER TYPE

F1 : FLUX I
F2 : FLUX II
F3 : FLUX III
F4 : FLUX IV
F5 : FLUX V

❸ MICRON RATING

P60 : 0.6μm
001 : 1μm
002 : 2μm
003 : 3μm
005 : 5μm
010 : 10μm
020 : 20μm
030 : 30μm

❹ END STYLE

TYPE	CODE
FLUX I	C2 : 226/FLAT
	C3 : 222/FLAT
FLUX II	2R : Standard O-Ring
	2U : U-CUP Ring
FLUX III	3R : Standard O-Ring
	3U : U-CUP Ring
FLUX IV	4S : Standard O-Ring
FLUX V	5S : Standard O-Ring

❺ SEALS

S : Silicone
E : EPDM
V : Viton
F : TEV

❻ LENGTH

TYPE	CODE
FLUX I	
FLUX II	10 : 10"
FLUX V	
FLUX III	20 : 20"
	40 : 40"
FLUX IV	60 : 60"

CAPSULE SERIES

❶ C1 ❷ PDA - ❸ 001 - ❹ S6 P ❺ S ❻ 1S

❶ FILTER TYPE

C1 : CAP I
C2 : CAP II
C3 : CAP III
C4 : CAP IV

❸ MICRON RATING

P60 : 0.6μm
001 : 1μm
002 : 2μm
003 : 3μm
005 : 5μm
010 : 10μm
020 : 20μm
030 : 30μm

❹ END STYLE

TYPE	CODE	In/Out Connection	Vent / Drain
CAP 1	S6	1/4" Swagelok	1/8" Swagelok
	N6	1/4" NPT	1/8" NPT
	F3	1/8" Flaretek	
	F9	3/8" Flaretek	
	P6	1/4" Super Pillar	1/8" Luer
CAP 2	CL	CL	NA
	F9	3/8" Flaretek	
	FE	1.5" Ferrule	1/4" Hose Barb
CAP 3	A1	One Touch Quick Coupling	1/4" NPT
	B2		NA
CAP 4	A1		1/4" NPT

❺ SEALS

X : NA
S : Silicone
E : EPDM
V : Viton
F : TEV

❻ LENGTH

TYPE	CODE
CAP 1	1S : Standard
CAP 2	2S : Standard
CAP 3	31 : 10"
	32 : 20"
CAP 4	4S : Standard