





# ABSPRO DN™

PP Depth Pleated Filters / Nominal Ratings



## INDUSTRIES & APPLICATIONS

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

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

ABSPRO DN™ are multi-layered depth pleated filters that has graded fiber diameter and density. The construction provides exceptional filter service life and reliable filtration performance in wide range of operating conditions.

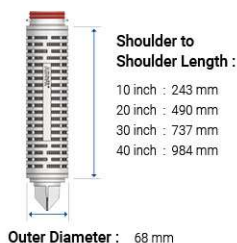
## FEATURES & BENEFITS

- 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



### 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

- 0.1, 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)

### 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>

### 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



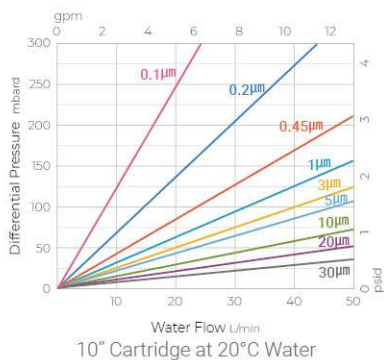
\* For details, see the Appendix II – Capsule Filter Types

### Recommended Change Out Differential Pressure

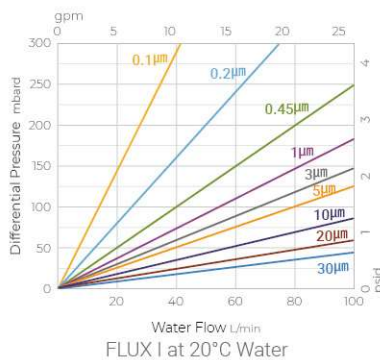
2 bard (29.0 psid)

**TYPICAL CLEAN WATER FLOW**

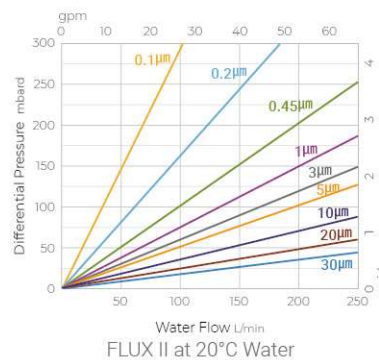
**CARTRIDGE & FLUX**



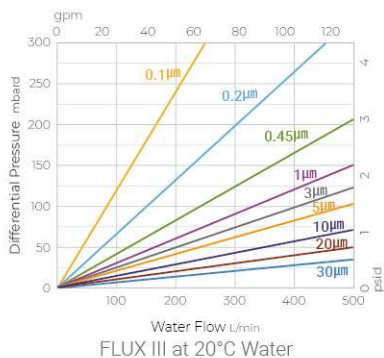
10" Cartridge at 20°C Water



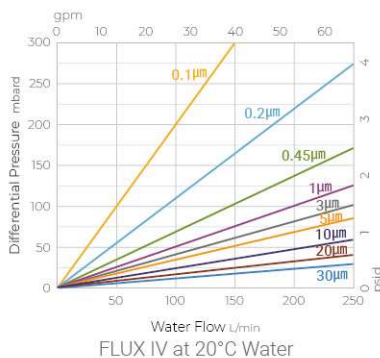
FLUX I at 20°C Water



FLUX II at 20°C Water

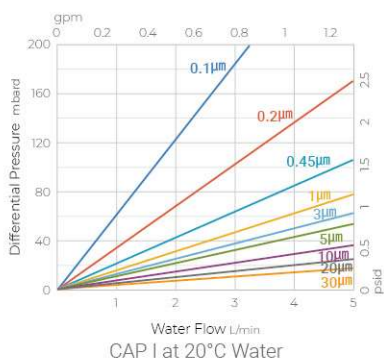


FLUX III at 20°C Water

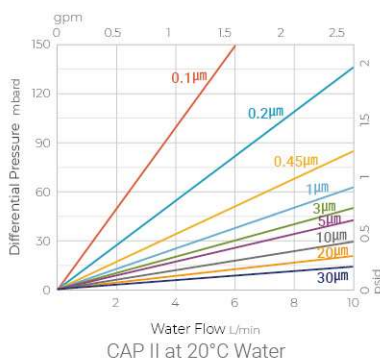


FLUX IV at 20°C Water

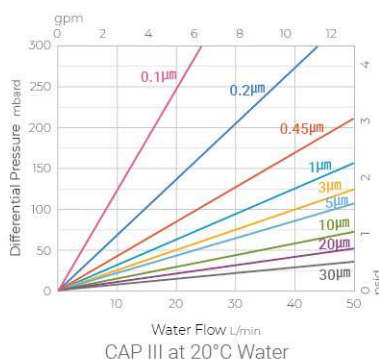
**CAP**



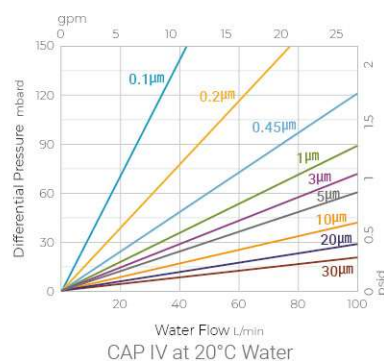
CAP I at 20°C Water



CAP II at 20°C Water



CAP III at 20°C Water



CAP IV at 20°C Water

