

# ABSPFA EH™

All Fluoropolymer Filters with Hydrophilic PTFE Membrane



## INDUSTRIES & APPLICATIONS

-  **Electronics** : Process chemicals, Photoresists
-  **Chemicals** : Acids, Bases, Solvents

ABSPFA EH™ are all-fluoropolymer filters with hydrophilic PTFE membrane designed for a wide range of aggressive chemicals including acids, bases and solvents in the electronic applications.

ABSPFA EH™ utilizes a high security expended PTFE membrane with highest purity PFA fluoropolymer hardware, providing excellent chemical compatibility to almost aggressive chemicals.

ABSPFA EH™ are all flushed with 18MΩ ultrapure water to minimize extractables and any particulate migration and 100% integrity tested.

## FEATURES & BENEFITS

- Reliable particle removal efficiency with lower differential pressure drops
- 100% flushed with 18MΩ ultrapure water
- 100% integrity tested
- No binders are present to interrupt product quality
- All polypropylene construction provides excellent chemical compatibility and very low level of extractables
- Prewet options available
- Available in a wide range of end styles and micron ratings

## TECHNICAL DATA

### Nominal Dimensions

- Cartridge 69Ø
- Length : 250, 500, 750, 1000 mm
- Inner Diameter : 30 mm
- Outer Diameter : 69 mm

### FLUX I

- Length : 250 mm
- Diameter (ID/OD) : 38 mm / 82 mm

### Materials of Construction

- Filtration Media : Hydrophobic PTFE (Polytetrafluoroethylene)
- Support Media : PFA
- Inner Core : PFA
- Outer Cage : PFA
- End Caps : PFA
- O-rings / Gaskets : TEV (FEP encapsulated viton)

### Max. Operating Temperature

- Cartridge : 180°C (356°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)

### Nominal Pore Sizes

0.02, 0.03, 0.05, 0.1, 0.2, 0.45, 1, 5, 10 µm

### Pre-Flush

Pre-flushed with 18 MΩ UPW at 10LPM for 5min

### Pre-Wet (Optional)

Pre-wetted with 18 MΩ UPW

### Integrity

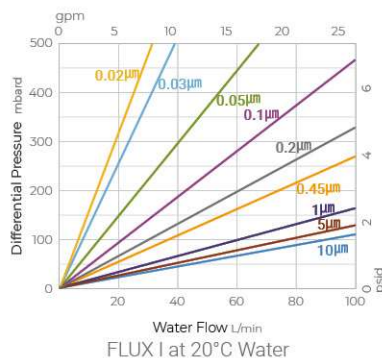
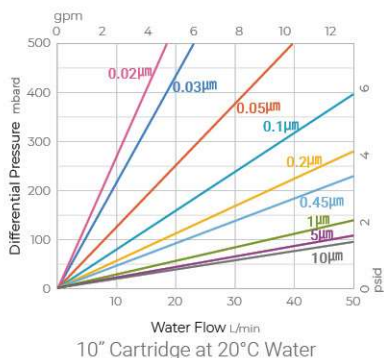
100% integrity tested

### Filtration Area

- Cartridge 68Ø : 0.9 m<sup>2</sup> / 10 inch
- FLUX I : 1.3 m<sup>2</sup> / 10 inch

**TYPICAL CLEAN WATER FLOW**

**CARTRIDGE & FLUX**



**CARTRIDGES**

| ①             | ②          | ③                 | ④         | ⑤            | ⑥                      |
|---------------|------------|-------------------|-----------|--------------|------------------------|
| PFH           | 001        | E3                | V         | 10           | G                      |
| MICRON RATING |            | END STYLE         | SEALS     | LENGTH       | OPTION                 |
| P02 : 0.02µm  | 001 : 1µm  | C1 : DOE          | E : EPDM  | 10 : 250mm   | Blank : without Prewet |
| P03 : 0.03µm  | 005 : 5µm  | C2 : 226Lock/FLAT | V : Viton | 20 : 500mm   | P : Prewet <10ppb      |
| P05 : 0.05µm  | 010 : 10µm | E3 : 222/FLAT     | F : TEV   | 30 : 750mm   |                        |
| P10 : 0.1µm   |            | C7 : 226Lock/FIN  |           | 40 : 1,000mm |                        |
| P20 : 0.2µm   |            | E8 : 222/FIN      |           | 1E : 254mm   |                        |
| P45 : 0.45µm  |            |                   |           | 2E : 508mm   |                        |
|               |            |                   |           | 3E : 762mm   |                        |
|               |            |                   |           | 4E : 1,016mm |                        |

**FLUX SERIES**

| ①           | ②             | ③          | ④             | ⑤            | ⑥        | ⑦                      |
|-------------|---------------|------------|---------------|--------------|----------|------------------------|
| F1          | PFH           | 001        | E3            | V            | 10       | G                      |
| FILTER TYPE | MICRON RATING |            | END STYLE     | SEALS        | LENGTH   | OPTION                 |
| F1 : FLUX I | P02 : 0.02µm  | 001 : 1µm  | E3 : 222/FLAT | S : Silicone | 10 : 10" | Blank : without Prewet |
|             | P03 : 0.03µm  | 005 : 5µm  |               | E : EPDM     |          | P : Prewet <10ppb      |
|             | P05 : 0.05µm  | 010 : 10µm |               | V : Viton    |          |                        |
|             | P10 : 0.1µm   |            |               | F : TEV      |          |                        |
|             | P20 : 0.2µm   |            |               |              |          |                        |
|             | P45 : 0.45µm  |            |               |              |          |                        |