

## EAFIPF Series

*Hydrophobic PTFE Membrane Filter*

### FEATURES AND BENEFITS

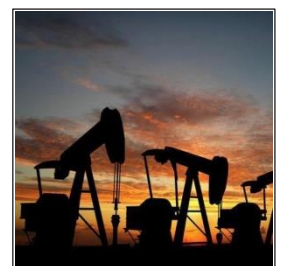
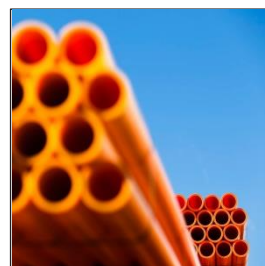
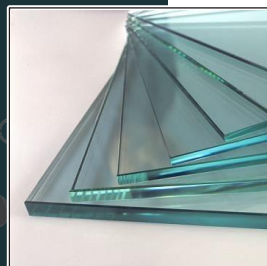
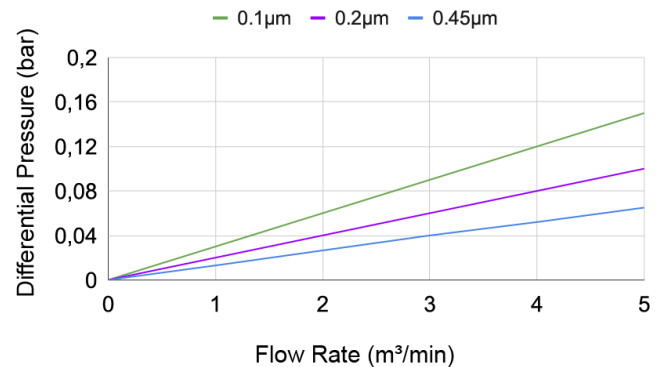
- Naturally hydrophobic PTFE membrane with excellent porosity, high flow rate
- Absolute rating, filtration efficiency  $\geq 99.99\%$ , Up to 0.01 micron in gas sterile filtration
- Low pressure drop and long service life
- Wide chemical compatibility, resistant to strong alkali, acids, aggressive gases and solvents
- High temperature endurance performance
- 100% integrity tested before final assembly



### TYPICAL APPLICATIONS

- Compressed air, CO2 line sterile filtration
- Tank vent, Fermentation air
- Air filtration in aseptic packaging
- Aggressive acids, Bases, Solvents
- Photoresists, Etch Solutions

### TYPICAL WATER FLOW RATE @ 25°C (10")



## SPECIFICATIONS

Materials of Construction	Filter Media	Hydrophobic PTFE membrane
	Support Layers	Polypropylene
	Micron Rating	0.1, 0.2, 0.45, 0.65, 1.0, 3.0 $\mu\text{m}$
	Inner Core	Reinforced Polypropylene / Stainless Steel
	Outer Cage, End Cap	Reinforced Polypropylene
	Seal Method	Thermal Bonded, No Adhesives
	O-Rings/Gaskets	Silicone, Nitrile, EPDM, Viton, Teflon
Cartridge Dimensions	Outer Diameter	69mm (2.75")
	Inner Diameter	33mm (1.30")
	Length (Based on DOE End Cap)	10" – 254mm, 20" – 508mm, 30" – 762mm, 40" – 1016mm
	Filtration Area (m <sup>2</sup> )	0.65 m <sup>2</sup> per 10"
Operating Conditions	Normal Operating Temperature	Up to 65 °C (149 °F)
	Max. Operating Temperature	90 °C (194 °F) at $\Delta P \leq 1.0$ bar (14.5 psi)
	Normal Flow Direction	4.2 bar (60.9 psi) at 25 °C (77 °F)
	Reverse Flow Direction	2.1 bar (30.5 psi) at 25 °C (77 °F)
	PH Value Compatibility	1 – 14
	Sterilization	Steam Sterilization for 30 minutes at 121 $\pm$ 2 °C, 100 cycles, Autoclave 30minutes (optional)
Cartridge Safety	Endotoxin	< 0.25 EU/ml
	Extractables	0.03g / 10"

## 100% INTEGRITY TEST

Cartridge Code	Bubble Point
EAFIPF010	$\geq 1.3$ bar (19 psi)
EAFIPF020	$\geq 0.9$ bar (13 psi)
EAFIPF045	$\geq 0.4$ bar (5.8 psi)

Test Liquid: 70% / 30% IPA / WATER at 23°C (73°C)

## ORDER INFORMATION

Product	Grade	Micron	End Cap	Length	O-Ring/Gasket
EAFIPF	<b>F</b> – Food & Beverage <b>P</b> – Pharmaceutical <b>C</b> – Chemical <b>E</b> – Electronics	010 – 0.1 $\mu\text{m}$ 020 – 0.2 $\mu\text{m}$ 045 – 0.45 $\mu\text{m}$	AA – DOE	10 – 10"	N – Nitrile T – Teflon (Encapsulated) S – Silicone E – EPDM V – Viton
			CN – 226/FIN	20 – 20"	
			BN – 222/FIN	30 – 30"	
			BF – 222/ FLAT SEAL	40 – 40"	
			CF – 226/FLAT SEAL	05 – 5"	
			EN – 222/Three locking ears/Fin	Other – XX	

**Example:** EAFIPF **P** 020 AA 20 N