

# PRE III (Melt-blown depth)

## Description

PRE III depth cartridge filter is made of silicone-free material as 100% polypropylene media. This is permitting the creation of multiple filtration zones. This design produces a gradient pore structure, which effectively captures large particles in the outer sections while providing highly efficient and consistent removal of smaller particles in the innermost sections.



## Features

- 100% all polypropylene
- Excellent chemical resistance
- High dirt holding capacity
- High flow rate and low differential pressure
- FDA complied polypropylene material

## Applications

Electronic Industry	Etching solution, electro-plating
Chemical Industry	Adhesive, solvent, surfactant, chemical liquid
Food & Beverage Industry	Wine, potable water, beer, soft drink, brewery, sugar, edible oil
General Process Industry	Pre-filtration for DI & RO system, process water

## Specifications

Dimension & Structure	Length	5", 9.75", 10", 19.65", 20", 29.5", 30", 39.5", 40", 49.21", 50" / 127, 250, 254, 500, 508, 750, 762, 1000, 1016, 1250, 1270 mm
	ID	28, 30 mm
Materials of Construction	OD	62 mm
	Effective filtration area	0.05 m <sup>2</sup> per 10inch
Operating Conditions	Filtration media	100% melt blown polypropylene micro fiber
	Inner core and adapters	Polypropylene, reinforced polypropylene by Talc
	O-rings & gaskets	Silicone, EPDM, Viton, TEV & Foamed polyethylene
Operating Conditions	Maximum differential pressure	30 psid / 2.1 bar at 60 °C 60 psid / 4.2 bar at 30 °C
	Maximum operating temperature	PP core - 176 °F / 80 °C

## Liquid Particle Retention Ratings

Removal Ratings( $\mu\text{m}$ )	$\beta = 1,000$	$\beta = 100$	$\beta = 10$
	99.90%	99.00%	90.00%
0.5	7.2	4.5	1.2
1	12.1	8.4	3.6
5	18.9	12.5	7.6
10	23.8	15.3	10.5
20	29.4	21.6	16.2
50	63.2	49.2	31.6
100	96.5	65.8	48.7

## Pressure Drop vs. Water Flow Rate

