

PRE I (String wound depth)

Description

PRE I cartridges are wounded, each layer of roving is napped to increase filtration area and capabilities. This is designed for applications when reliable and consistent depth filtration is required.

A broad range of media provides excellent chemical compatibility including chemicals, magnetic coatings, food & beverage, oil production, air & gas etc.



Features

- Conventional and classical type filter
- Low maintenance cost
- Suitable for high temperature and pressure process
- Excellent chemical compatibility
- Available in a wide range of materials and micron ratings

Applications

Chemical Industry	Acid, base, organic solvent, plating solution, magnetic coating, polyester resin
Food & Beverage Industry	Edible oil, coco butter, sugar, saccharin, starch syrup, soft drink, beer
General Process Industry	Process water
Oil & gas Industry	Amine, glycol, lubricating oil

Specification

Dimension & Structure	Length	9.75", 10", 19.65", 20", 29.5", 30", 39.5", 40"
	ID	/ 250, 254, 500, 508, 750, 762, 1000, 1016 mm
	OD	28, 30 mm
	Effective filtration area	62 ~ 110 mm
		0.07 m ² per 10 inch
Materials of Construction	Filtration Media (yarn)	Polypropylene, Non foaming PP*, Fibrillated PP, Polyester, Natural cotton, Bleached cotton, Acryl, Fiber glass
	Inner Core	Polypropylene, reinforced polypropylene by Talc, 304 SS, 316 SS
	Inner core cover	Spun bonded polypropylene, polyester
	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	304 SS, 316 SS core - 300 °F / 147 °C PP core - 176 °F / 80 °C

* Silicone free non foaming polypropylene.

Liquid Particle Retention Ratings

Cartridges		$\beta = 1,000$	$\beta = 100$	$\beta = 10$
Removal Ratings(μm)	Medium	99.90%	99.00%	90.00%
1	Polypropylene	11	8	3
	Cotton	9	7	3
	Fiber glass	9	7	3
3	Polypropylene	13	8	5
	Cotton	11	7	4
	Fiber glass	11	7	4
5	Polypropylene	16	12	9
	Cotton	13	10	8
	Fiber glass	13	9	8
10	Polypropylene	25	16	12
	Cotton	22	14	10
	Fiber glass	21	13	10
25	Polypropylene	37	30	23
	Cotton	34	28	21
	Fiber glass	32	27	19
50	Polypropylene	70	50	35
	Cotton	64	47	32
	Fiber glass	59	45	30
75	Polypropylene	77	58	45
	Cotton	71	55	41
	Fiber glass	68	51	37
100	Polypropylene	95	80	53
	Cotton	85	75	51
	Fiber glass	81	68	48
125	Polypropylene	120	114	69
	Cotton	106	98	61
	Fiber glass	101	93	57

Pressure Drop vs. Water Flow Rate

