

PORFLUX III

Description

PORFLUX III pleated filter cartridge filters are designed for application where high flow rate and precise particles removal rating is required. This filters which is designed with 152mm out diameter have ten times more filtration area comparison with normal filters. Highly recommended for not only generation from 10 to 11 of PDP, LCD, AM-OLED(Active Matrix Organic Light-Emitting Diode) but also sea water desalination, pre-filtration of RO system and power generation, etc.



Features

- Suitable for 10~11 generation LCD
- Ultra capacity
- Very long service time
- Fewer change-out
- Suitable for high pressure application

Applications

Electronic Industry	LCD, PDP, AM-OLED, photo-resist, etchant, developer, stripper
Film & Fiber Industry	Monomer, slurry additive, floppy disc coating, computer tape coating, audio and videotape
General Process Industry	Adhesive, automotive paint, Ink and dye, acid, base, and oxidant
Chemical & Petrochemical Industry	Monomer, polymer, glycol, mono-ethanol- amine and di-ethanol-amine for gas scrubbing, acid, base and product polishing, rinse and solvent
Pharmaceutical & Biological industry	Ointment, pure water for dialysis, diagnostic, LVPs, SVPs, tissue culture media, extraction chemicals, re-crystallization chemical, serum
Food & Beverage Industry	Corn syrup, edible oil, bottle water, beer, soft drink and distilled spirits, wine, beer, fruit Juice
General Water Process	DI water , process water
Gases Industry	Tank vents, compressed gases, sterile venting of holding tanks, sterile CO ₂

Specifications

Dimension & Structure	Length	20", 40", 60" / 508, 1016, 1524 mm
	ID	75 mm
	OD	Cap : 160 mm, Body : 152 mm
	Effective filtration area	PP : 2.5 ~ 4.2 m ² , PES : 4.2 ~ 4.6 m ² , PTFE : 4.8 ~ 5.2 m ²
Materials of Construction	Filtration media	Polypropylene, PES, PTFE, PP membrane, Fiber glass
	Support layers	Polypropylene, polyester
	Core & case	Reinforced polypropylene
Operating Conditions	O-rings	Silicone, EPDM , Viton, TEV
	Maximum differential pressure	30 psid / 2.1 bar at 60 °C
	Maximum operating temperature	60 psid / 4.2 bar at 30 °C 194 °F / 90 °C

Liquid Particle Removal Ratings

Polypropylene micro fiber	Absolute : 0.6, 0.8, 1, 5, 10, 20 Nominal : 0.2, 0.45, 1, 3, 5, 10, 30
PES Membrane	0.04, 0.1, 0.2, 0.45, 0.6, 0.8, 1.2
PTFE Membrane	0.05, 0.1, 0.2, 0.45, 0.7, 1, 3, 5
PP Membrane	0.1, 0.2
Fiber glass	0.45, 1, 5, 10

(Polypropylene nominal)

Removal Rating (μm)	$\beta = 1,000$	$\beta = 100$	$\beta = 10$
	99.90 %	99.00 %	90.00 %
0.2	2.2	< 1.2 *	< 0.3 *
0.45	4.6	2.5	< 0.53 *
1	12	4.1	< 0.91 *
3	17	7.9	2.95
5	33	12	4.8
10	22.95	16	8.8
30	36.55	36	29.4

* Extrapolated value

Pressure Drop vs. Water Flow Rate

g/min l/min

