

SP Type -Filter Element

Description

SP Type 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
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
General Water Process	DI water , process water
Gases Industry	Tank vents, compressed gases, sterile venting of holding tanks, sterile CO2

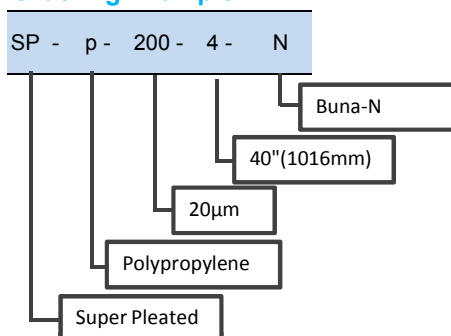
Specifications

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 m2, PES : 4.2 ~ 4.6 m2, PTFE : 4.8 ~ 5.2m2
Materials of Construction	Filtration media	Polypropylene, PES, PTFE, PP membrane, Fiber glass
	Support layers	Polypropylene, polyester
	Core & case	Reinforced polypropylene
	O-rings	Silicone, EPDM , Viton, TEV
Operating Conditions	Maximum differential pressure	30 psid / 2.1 bar at 60 °C
		60 psid / 4.2 bar at 30 °C
	Maximum operating temperature	194 / 90 °C

Ordering Information

Type	Support Material	Micron Rating	Length	O-ring Material
SP :Super Pleated	P : Polypropylene	02 : 0.2µm	2 : 20"(508mm) 4 : 40"(1016mm) 6 : 60"(1524mm)	E : EPDM N : Buna-N S : Silicone V : Viton
		04 : 0.45µm		
		10 : 1µm		
		30 : 3µm		
		50 : 5µm		
		100 : 10µm		
		200 : 20µm		
		300 : 30µm		
		400 : 40µm		

Ordering Example



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Liquid Particle Removal Ratings

Polypropylene	Absolute : 0.6, 0.8, 1, 5, 10, 20
micro fiber	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)	β = 1,000	β = 100	β = 10
0.2	99.90%	99.00%	90.00%
0.45	2.2	< 1.2 *	< 0.3 *
135	4.6	2.5	< 0.53 *
3	12	4.1	< 0.91 *
5	17	7.9	2.95
10	33	12	4.8
30	22.95	16	8.8
	36.55	3	29.4

Pressure Drop vs. Water Flow Rate

