

PSE Cartridges UXL/SXL Type

(Pleated membrane cartridge)



Designed for the manufacturing of giant LCD panels
The flow rate has been increased 2 fold* compared with the level
of conventional high flow rate filters.

*: UXL Type

Optimized for the production of 8th- to 10th-generation
large liquid-crystal display substrates

Two types of extra high flow rate cartridge have been added to the PSE cartridge series, a series highly valued for both its high flow rate and high particle-retention performance.

They support the manufacturing of 8th- to 10th-generation LCD panels.

Major Applications

Utilizing a performance proven PSE membrane, that has a specific inner structure (asymmetric pore size distribution), these cartridges are suitable for use in production lines where a high flow rate, high particle-capturing performance, and long cartridge life are required such as washing units in giant LCD panel production.

Specific Features

1. Product line up

Two types of cartridges (UXL/SXL: differ in filtration area) are available.

2. Extra high flow rate

PSE-UXL cartridge realizes an extra high flow rate equivalent to 2 fold that of PSE-XL type (currently the highest flow rate cartridge in FUJI). PSE-UXL cartridge of 0.2 microns pore size shows over 300 L/min. flow rate. (at $P = 0.03$ Mpa)

3. Excellent particle-capturing performance

The dense inner layer unique to PSE membranes effectively captures fine particles.

4. Loadable for various type housings

PSE-UXL/SXL cartridges provide optimized performance with FUJI housings, meanwhile, they are also loadable for other housings that are designed for AS568-334 sized O-ring attached filters.

5. Tough structure

Durable PSE membrane and newly designed cartridge body provide excellent toughness.

Table of Performance Characteristics

Item	Unit	Performance				Remarks
Pore size	μm	0.1	0.2	0.45	1.2	
Size	Length	mm				273
	Outer diameter	mm				130
Max. differential pressure (under positive pressure)	25°C	MPa				0.34
Applicable pH range		1 ~ 14				(Note)

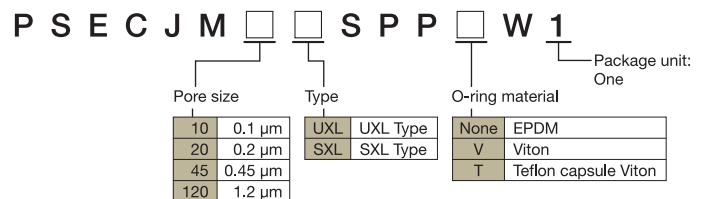
(Note) In case of chemical fluid filtration, a pre-test should be performed under users' own condition.

[Materials]

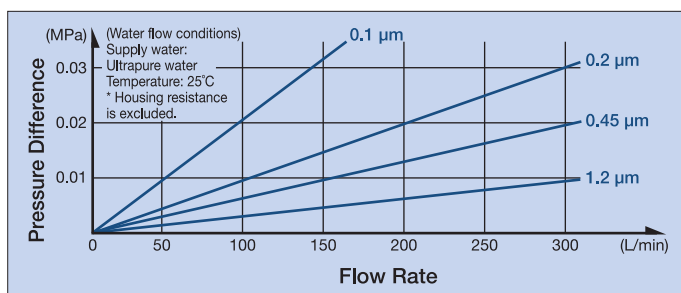
Name of part	Material
Membrane filter	Polysulfone (Asymmetric membrane)
Support	Polypropylene
Body	Polypropylene
O-ring	EPDM (Standard)

O-ring size JIS-P65 (AS568-334 or equivalent one)

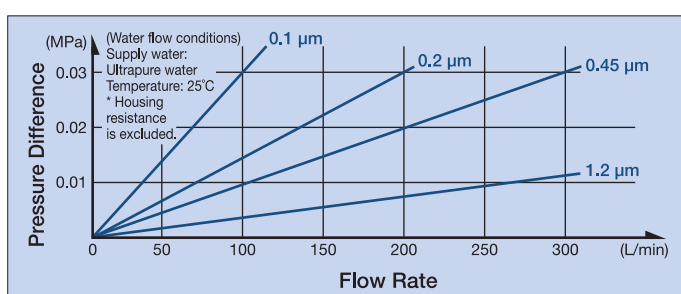
Product Codes



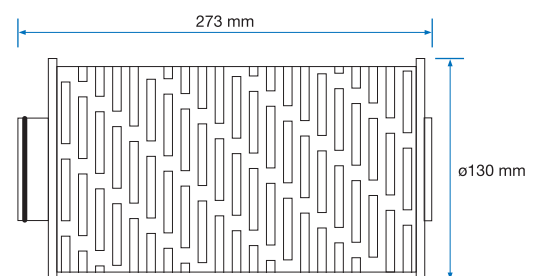
Flow Rate Characteristics (UXL type)



Flow Rate Characteristics (SXL type)



Size



Applicable Housings

Two types of dedicated housing, specially designed to optimize the PSE cartridge performance, are available.

- FPSUX TE 1 (made of polypropylene)
- PS6LJM 1-1 50 FET 1 (made of stainless steel)