

PSE Cartridge L type

(Pleated membrane cartridge)



- The flow rate has been increased 1.5 fold as compared with the conventional level.
- Particle-removing performance for a single-pass operation stands at the same rating as conventional PSE cartridges.
- A long service life (Filtering life is increased 1.5 to 2 fold*)
* The service life will vary depending on the operating conditions.
- As the cartridge has the same dimensions as the conventional type (ø70 mm), it is not necessary to modify the housing.

A higher flow rate (1.5 fold that of a conventional product) type has been added to the PSE cartridge series, a series highly valued for both its high flow rate and high particle-retention performance. It supports the manufacturing of larger LCD panels and wafers with greater diameters.

Major Applications

Utilizing a performance-proven PSE membrane, this cartridge is suitable for use in production lines where a high flow rate and a high particle-capturing performance are required as mentioned below.

- Pure water filtering for cleaning systems used in large LCD and 300-mm wafer manufacturing processes
- Chemical fluid filtering for cleaning systems used in large LCD and 300-mm wafer manufacturing processes

Specific Features

1. High flow-rate

The cartridge realizes a high flow rate equivalent to 1.5 fold that of conventional (250 L) cartridges.

2. Excellent particle-capturing performance

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

3. Long life

The cartridge, with an increased filtering area, has a long life approximately 1.5 to 2 fold that of conventional cartridges.*

* The filtering life will vary depending on the operating conditions.



SEM photo of a cross-section of the PSE membrane

Flow Rate Characteristics

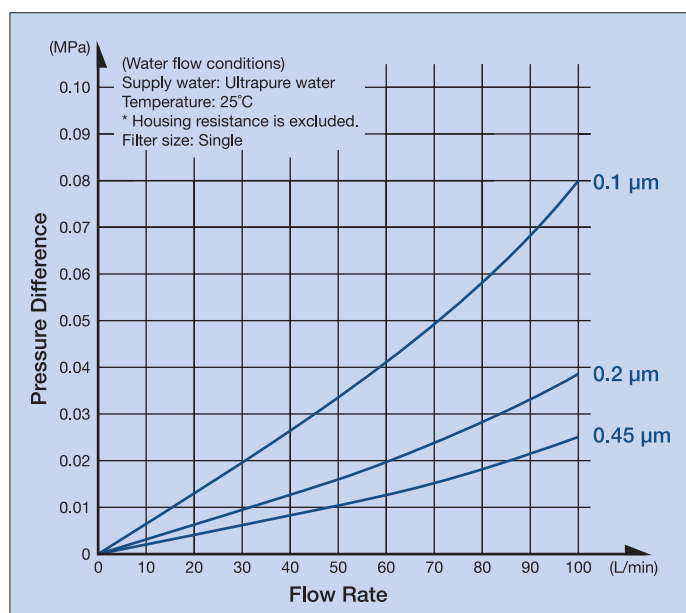


Table of Performance Characteristics

Item	Unit	Performance			Remarks
Pore size	μm	0.1	0.2	0.45	
Size	Length	264			(Note 1)
	Outer diameter	70			
Max. differential pressure	25°C	MPa	0.54 (Positive pressure)		
	25°C	MPa	0.34 (Back pressure)		
Max. heat resistance	°C	90			(Note 2)
Applicable pH range		1 ~ 14			(Note 3)

(Note 1) Contact Fujifilm for detailed information on size.

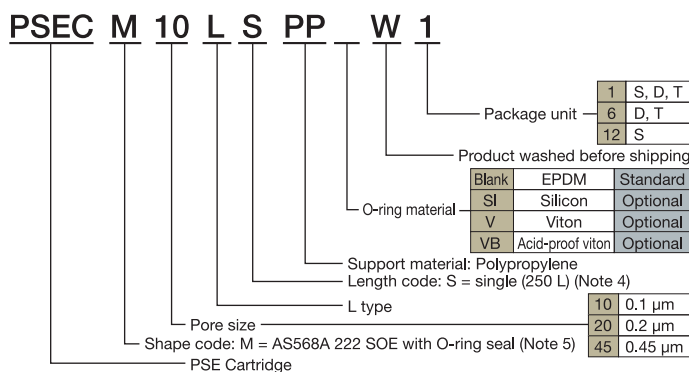
(Note 2) Continuously applied temperature

(Note 3) In case of chemical fluid filtration, a pre-test should be performed under users' own condition.

[Materials]

Name of part	Material
Guard	Polypropylene
Center core	Polypropylene
Support	Polypropylene
Membrane filter	Polysulfone (Asymmetric membrane)
O-ring	EPDM (Silicon, Viton)

Product Codes



(Note 4) For Double (D) or Triple (T) type, consult Fujifilm.

(Note 5) MP type also available (AS568A222 SOE with O-ring seal and fin).

Pore size	0.1 μm	0.2 μm	0.45 μm
Package unit			
1	PSECM10LSPPW1	PSECM20LSPPW1	PSECM45LSPPW1
12	PSECM10LSPPW12	PSECM20LSPPW12	PSECM45LSPPW12

Size

