

AstroPore Fujifilm Micro Filter

PSE Capsule

(Pleated membrane capsule filter)



Supports next generation single wafer processing units

- Space-efficient size
- Capsule type

A PSE membrane with field-proven performance is used to result in a compact shape, a high flow rate and high precision.

Major Applications

- Pure water filtering in a single wafer cleaning unit
- Chemical filtering in a single wafer cleaning unit
- Final rinsing water for developers

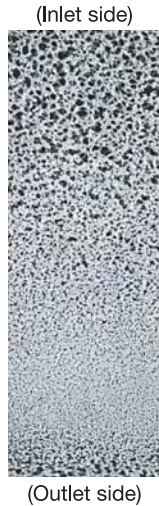
Specific Features

1. Small size and high flow rate

The high flow rate of conventional single (250 L) type products of other manufacturers is realized by the half type of this series.

2. Excellent particle-capturing performance

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



SEM photo of a cross-section of the PSE membrane

Table of Performance Characteristics

Item	Unit	Performance						Remarks
Pore size	μm	0.1	0.2	0.45	0.1	0.2	0.45	
Size	Length	152 (Q type)			210 (H type)			(Note 1)
	Outer diameter	93.5						
Max. differential pressure	25°C MPa	0.54 (Positive pressure)						
Max. heat resistance	°C	40						(Note 2)
Applicable pH range		1 ~ 14						(Note 3)

(Note 1) Refer to the size table.

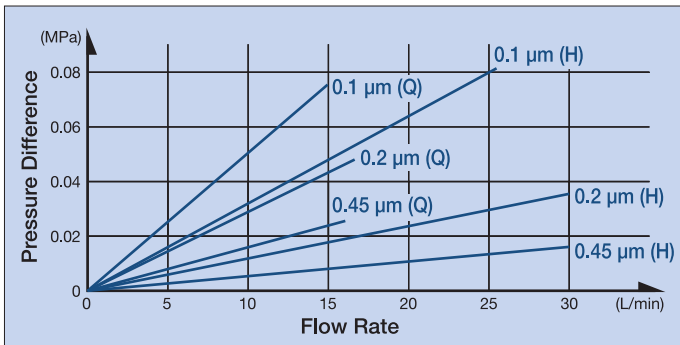
(Note 2) Continuously applied temperature

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

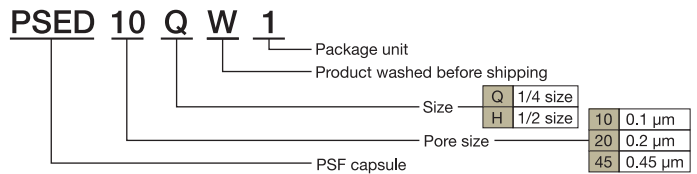
[Materials]

Name of part	Material
Housing	Polypropylene
Element guard	Polypropylene
Center core	Polypropylene
Support	Polypropylene
Membrane filter	Polysulfone (Asymmetric membrane)

Flow Rate Characteristics

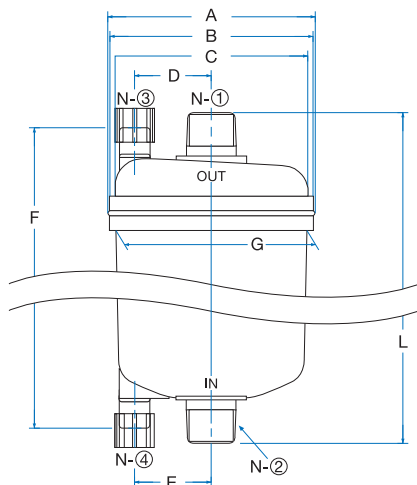


Product Codes



	Quarter (1/4 size)	Half (1/2 size)
0.1 μm	PSED10QW1	PSED10HW1
0.2 μm	PSED20QW1	PSED20HW1
0.45 μm	PSED45QW1	PSED45HW1

Size and Nozzle Diameters



(Unit: mm)

	PSED Q	PSED H
A	93.5	
B	92	
C	87	
D	35	
E	35	
F	140	196
G	86.7	
L	152	210
N-①	R1/2	R3/4
N-②	R1/2	R3/4
N-③	R1/4 with a cap	
N-④	R1/4 with a cap	