



CERTAIN-PORE

CES_{Type}

Major Applications

Liquid sterilizing grade filter for food & beverage

Beer, Wine, Japanese Sake, Mineral water,
Vinegar, Soy sauce, Syrup, Flavor and Fragrance,
General water for industrial use and water for
beverages

Quality standards

- **Adaptable Food Sanitation Standard**
 - FDA 21 CFR
 - EC No.1935/2004, EU No.10/2011 *

*Applicable Gaskets and O-ring materials are silicone only.
- **Heat sterilization durability** *Code7 only
 - Hot water
90°C (194°F) x 30 minutes x 150 cycles
 - Steam
135°C (275°F) x 30 minutes x 50 cycles
- Integrity tested by diffusion test
- Traceability by lot number

Features

- Bacteria challenge tests are conducted using bacteria indicator for respective pore size.
- Asymmetric hydrophilic polyethersulfone membrane
- Excellent durability for heat stress

Advantages

- Stable sterilizing properties
- Water flow and integrity test can be performed without hydrophilization
- Low pressure drop and reduced filtration time
- Can be used repeatedly by sterilizing and flushing

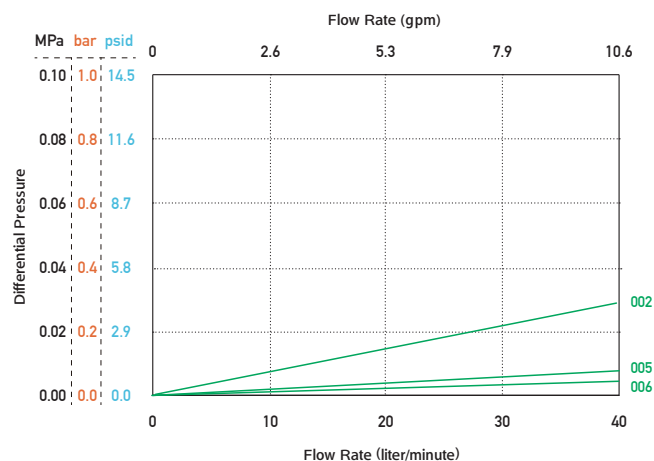
Specifications

Grades		002	005	006
Micron Ratings (μm)		0.2	0.45	0.65
E.F.A.		0.77m ² /250mm		
Media		Polyethersulfone (PES) Membrane		
Materials	Core/Cage/Support	Polypropylene		
	End Cap	Polypropylene		
Maximum ΔP		0.49MPa at 40°C (71psi at 104°F)		
Maximum Operating Temp		80°C (176°F)		
Dimen- sions	Length	125/250/500/750 mm		
	O.D.	70.0mm		
	I.D.	26.9 (for 3, 4)/26.1 (for F)/29.5 (for 7) mm		
Diffusion standard (Wetting liquid: Pure water) per 250mm size filter		0.20MPa: 20ml/min	0.15MPa: 25ml/min	0.10MPa: 15ml/min

*If you need further information on specifications (length, end cap type, etc.), please contact us.

Differential Pressure vs Flow Rate

Fluid: Refined Water 20°C (68°F) / Cartridge Length: 250mm



Microbial removal performance

Grades	Biological Indicator	LRV*
002	<i>Brevundimonas diminuta</i> (ATCC19146)	>7
005	<i>Lactobacillus brevis</i> (IFO3345)	>7
	<i>Alicyclobacillus acidoterrestris</i> (ATCC49025)	>7
006	<i>Lactobacillus brevis</i> (IFO3345)	7

*LRV represents Log Reduction Value (Refer to JIS K3835)

*Bacterial challenge level is more than 1×10^7 CFU/cm².

Ordering Information

Length	Product Type	Micron Rating	Gasket/O-Ring	End Cap Code	Packaging Code
<div>250 L</div> <div>125 = 125mm</div> <div>250 = 250mm</div> <div>500 = 500mm</div> <div>750 = 750mm</div>	-CES-	<div>002</div> <div>002 = 0.2 μm</div> <div>005 = 0.45 μm</div> <div>006 = 0.65 μm</div>	<div>S</div> <div>S = Silicone</div> <div>N = NBR</div> <div>V = FKM</div>	<div>7</div> <div>F = Flat Gaskets</div> <div>3 = 2-222 O-Ring + Fin</div> <div>4 = 2-222 O-Ring</div> <div>7 = 2-226 O-Ring + Fin</div>	<div>B</div> <div>A = 1pc</div> <div>B = 6pcs</div> <div>C = 10pcs</div> <div>F = 25pcs</div>

End Cap Code

Code F



Code 3



Code 4



Code 7



*The contents of the catalog are subject to change without notice.

*The performance data listed in the catalog are Typical values obtained under specific conditions based on our tests.

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Manufacturing is based on our Quality Management Systems that meet ISO9001 standards.

Scope
Design, Development, manufacture, and sales of filter cartridges, housings and filtration equipment.



10th Issue
CES200704LE