


CERTAIN-PORE
CES Type
Major Applications

Liquid sterilizing grade filter for food & beverage

Example: Beer, Wine, Japanese Sake, Mineral water, Vinegar, Soy sauce, Syrup, Flavor and Fragrance, Manufacturing water

Halal Certified

Halal certification is a system whereby a certification body conducts an audit of the product in question and certifies that it has been produced and supplied in accordance with Islam.


Quality standards

- **Adaptable Food Sanitation Standard**
 - FDA 21CFR
 - 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

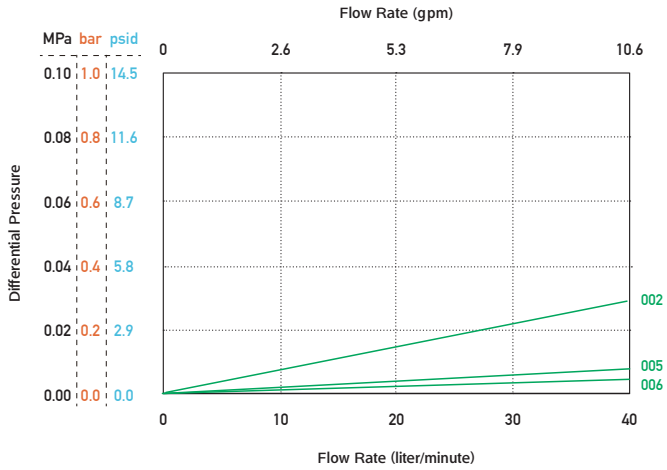
Specifications

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	Polypropylene		
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)		
Length	125/250/500/750 mm		
Dimensions	70.0mm		
O.D.	26.9 (for 3, 4)/26.1 (for F)/29.5 (for 7) mm		
I.D.			
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
2 5 0 L	-CES-H	0 0 2	S	7	B
125 = 125mm 250 = 250mm 500 = 500mm 750 = 750mm		002 = 0.2 μm 005 = 0.45 μm 006 = 0.65 μm	S = Silicone N = NBR V = FKM	F = Flat Gaskets 3 = 2-222 O-Ring + Fin 4 = 2-222 O-Ring 7 = 2-226 O-Ring + Fin	A = 1pc B = 6pcs C = 10pcs F = 25pcs

End Cap Code



*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.



9th Issue
 CES_H_220222LE