



CERTAIN-PORE

# CES Type

## Major Applications

Various water-based solutions  
 Ultrapure water, Chemicals,  
 Water-based dye inks, etc.

### Features

- Asymmetric hydrophilic polyethersulfone membrane
- 100% integrity tested

### Advantages

- Excellent differential pressure vs. flow rate
- Long service life
- High reliability

## Specifications

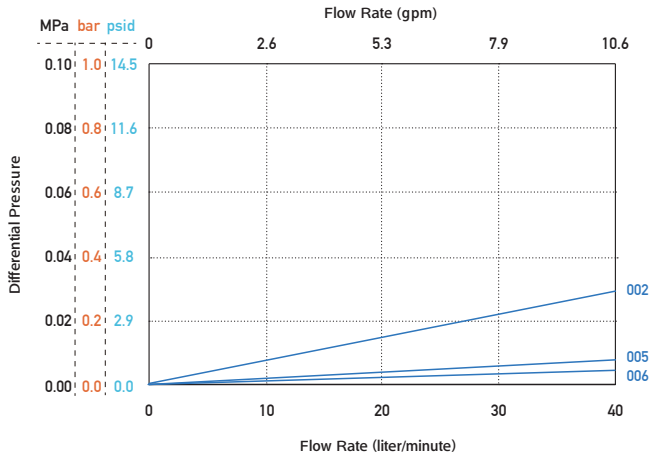
Grades	002	005	006
Micron Ratings ( $\mu\text{m}$ )	0.2	0.45	0.65
E.F.A.	0.77m <sup>2</sup> /250mm		
Media	Polyethersulfone (PES) Membrane		
Materials	Polypropylene		
Core/Cage/Support	Polypropylene		
End Cap	Polypropylene		
Maximum $\Delta P$	0.49MPa at 40°C (71psi at 104°F)		
Maximum Operating Temp	80°C (176°F)		
Length	125 / 250 / 500 / 750 mm		
Dimensions	70.0 mm		
I. D.	25.6 (for 0.5) / 26.1 (for F) / 29.5 (for 7) mm		
Available sterilization methods	Inline steam, Autoclave *Applicable to only code 7 with Silicone O-rings.		
Hot water sterilization	90 °C (194 °F) x 30 minutes x 150 cycles *Applicable to only code 7 with Silicone O-rings.		
Inline steam sterilization	135 °C (275 °F) x 30 minutes x 50 cycles *Applicable to only code 7 with Silicone O-rings.		
Adaptable Food Sanitation Standard	All raw materials meet the requirement of FDA 21 CFR <sup>1</sup>		

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

\*1 Applicable Gaskets and O-ring materials exclude EPDM.

## 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  $1 \times 10^7$  CFU/cm<sup>2</sup>.

## Ordering Information

Length	Product Type	Micron Rating	Gasket/O-Ring	End Cap Code	Packaging Code
2   5   0   L	-CES-	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 E = EPDM N = NBR V = FKM T = FEP Encapsulated FKM (for 0, 5, 7) PTFE (for F)	F = Flat Gaskets 0 = 2-222 O-Ring 5 = 2-222 O-Ring + Fin 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.

# ROKI GROUP International Pte. Ltd.

6-20-12, Minami-Oi, Shinagawa-ku Tokyo, 140-0013 Japan  
 TEL: +81-3-5764-1131 FAX: +81-3-5764-0681

www.rokiglobal.com

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.



25th Issue  
 CES200704E