

CES Type (Polyethersulfone Membrane)

The CES cartridges are hydrophilic membrane filters, constructed of Polyethersulfone media and polypropylene components. The CES cartridges are suitable for the filtration of liquids in the food/beverage and chemical industries

Features

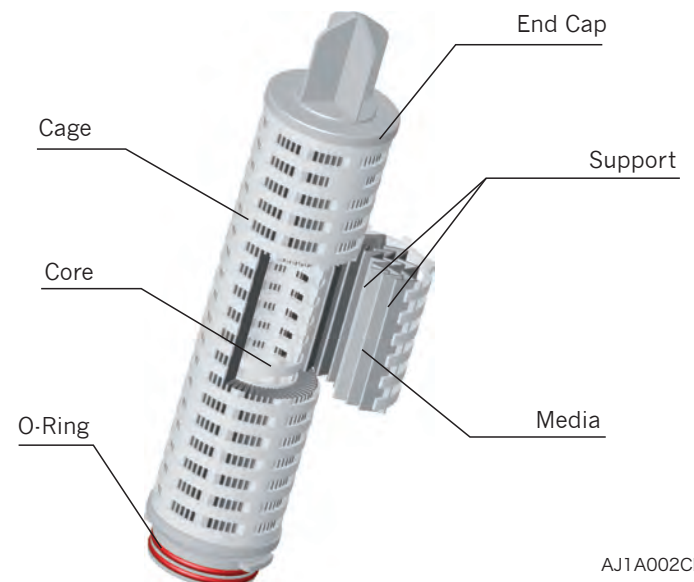
- Structured of asymmetrical membrane, the CES cartridges provide longer service life and higher flow rates
- All the cartridges are integrity tested and flushed with electronic grade DI water prior to shipment, which provides high reliability
- The CES cartridges can be used for the filtration of aqueous solutions without hydrophilic treatment, since the Polyethersulfone media has an inherent hydrophilic radical
- The CES cartridges are constructed using thermal bonding, thus the extractables of the cartridges are minimal
- The CES cartridges have the superior durability while repeated at SIP (steam sterilization) and CIP sanitization (sodium hydroxide 3%, 80 C)

Major Applications

- Food and Beverage
- High-purity solutions
- Ultra pure water
- Others

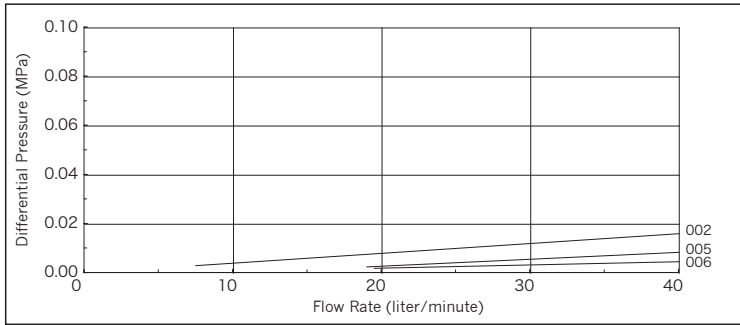


Materials of Construction



Differential Pressure vs Flow Rate

Fluid: Water(20°C)
Cartridge Length: 250mm



※The data do not include piping pressure drop.

Particle Removal Efficiency

CES Filter Cartridge (LRV)

Grade	002	005	006
Biological Indicator	Brevundimonas diminuta	Lactobacillus brevis	Lactobacillus brevis
LRV	>7	>7	4~5

Ordering Information

250 L - CES - 002 S 7 B

- [Nominal Length]**
125 = 125mm
250 = 250mm
500 = 500mm
750 = 750mm
- [Product Type]**
- [Micron Rating]**
002 = 0.2 μm
005 = 0.45 μm
006 = 0.65 μm
- [Gasket/O-ring]**
S = Silicone
E = EPDM
N = NBR
V = FKM
T = FEP Encapsulated FKM (for 0, 5, 7)
PTFE (for F)
- [End Cap Code]**
F = Flat Gaskets
O = 2-222 O-Ring
5 = 2-222 O-Ring+Fin
7 = 2-226 O-Ring+Fin
- [Packaging Code]**
A = 1pc
B = 6pcs
C = 10pcs
F = 25pcs

Specification

Product Type	CES		
Grade	002	005	006
Micron Rating (μm)	0.2	0.45	0.65
E.F.A. (ml/250L)	0.75		
Dimensions	Length (mm)	125 / 250 / 500 / 750	
	O.D. (mm)	70.0	
	I. D. (mm)	26.1 (for F) / 25.6 (for 0, 5) / 30.0 (for 7)	
Materials Media	Media	Polyethersulfone (PES) Membrane	
	Support	Polypropylene	
	Core	Polypropylene	
	Cage	Polypropylene	
	End Cap	Polypropylene	
Gasket/O-Ring	Silicone / EPDM / NBR / FKM / FEP Encapsulated FKM (for 0, 5, 7) / PTFE (for F)		
Maximum ΔP (MPa)at 20°C	0.49		
Maximum Operating Temp.(°C)	80		
Applicable Sterilization	More than LRV7 against biological indicator / ※1 CIP / In-Line-Steam Sterilization / Autoclave		
Adaptable Food Sanitation Standard	Ministry of Health, Labour and Welfare, Notice 370		

The products are manufactured under control by the quality management system registered as conforming to the ISO9001 standard.



Scope: Manufacture of Filter cartridges

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

※1 Applicable to Only code 7 with silicone O-rings

End Cap Code



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