

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

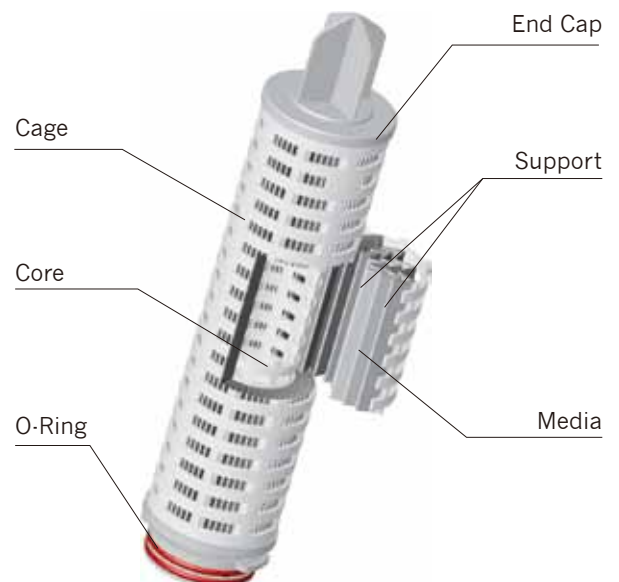
- Structured of asymmetrical membrane, the CES cartridges provide longer service life and higher flow rates
- All the cartridges are integrity tested and flushed with electronic grade DI water prior to shipment, which provides high reliability
- The CES cartridges can be used for the filtration of aqueous 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

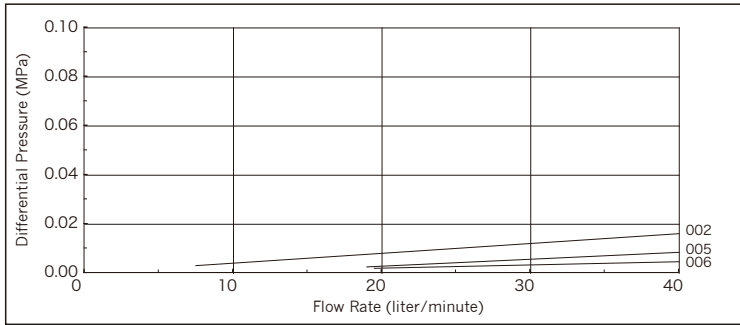
- Food and Beverage
- High-purity solutions
- Ultra pure water
- Others

Materials of Construction



Differential Pressure vs Flow Rate

Fluid: Refined water (20°C)
Cartridge Length: 250mm



※The data do not include piping pressure drop.

*The above data are based on our test condition, and are not guaranteed value.

Bacteria Challenge Test

CES Filter Cartridge (LRV)

Grade	Biological Indicator	LRV
002	Brevundimonas diminuta	≥7
005	Lactobacillus brevis	≥7
	Alicyclobacillus acidoterrestris	≥7
006	Lactobacillus brevis	4~5

Ordering Information

250	L	-	CES	-	002	S	7	B
↓			↓		↓	↓	↓	↓
[Nominal Length]			[Product Type]		[Micron Rating]	[Gasket/O-Ring]	[End Cap Code]	[Packaging Code]
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 O = 2-222 O-Ring 5 = 2-222 O-Ring+Fin 7 = 2-226 O-Ring+Fin	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. (m ² /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 ※1	CIP / In-Line-Steam Sterilization / Autoclave		
	Adaptable Food Sanitation Standard	All raw materials meet the requirement of FDA 21 CFR		

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



Scope: Manufacture of Filter cartridges

End Cap Code



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