

ADVANTEC®

PLEATED POLYPROPYLENE DEPTH
COMPACT/CAPSULE CARTRIDGE FILTERS
MCP-AM Type / CCP-AM Type



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ADVANTEC TOYO KAISHA, LTD.

PLEATED POLYPROPYLENE DEPTH COMPACT/CAPSULE CARTRIDGE FILTERS

This series of Compact/Capsule Cartridge Filters are suitable for filtering gel which are prone to clog our conventional cartridge filters.

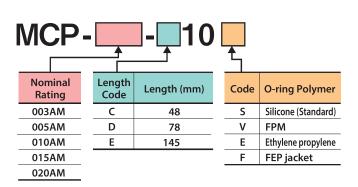
Features | | |

- Decreasing the pore sizes from the outer layer to the inner layer enables to capture gel efficiently.
- The pleated structure with a large filtration area enables to reduce differential pressure significantly compared to conventional depth type cartridge filters.
 - In particular, you can expect increasing the filtration velocity in the filtration of viscous liquids with which achieving high filtration velocity can be difficult.
- The thick multiple-layer structure enables to improve particle retention although its filtration area is narrower compared with conventional PP pleated type cartridge filters.

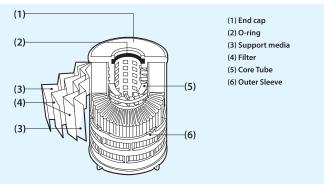
■ Major applications

- Filtration of pigment resists, coating liquid, ultrapure water, solvents, chemical agents, electromagnetic slurry, and process gases, etc. in the microelectronics industry
- Filtration of abrasive particles, resins, monomers, catalysts, and various types of gases, etc. in the chemical industry
- Prefilters and final filters for process water, solvents, intermediates, and products, etc. in the pharmaceutical and cosmetics industries
- Filtration of water, syrups, and soft drinks, etc. in the food, beverage, and brewing industries

■ ORDERING INFORMATION – COMPACT CARTRIDGE FILTERS

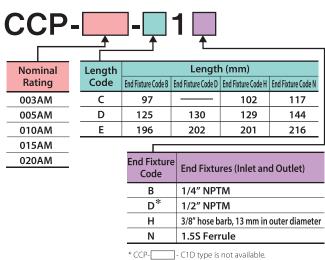


■ MCP-AM Type Composition

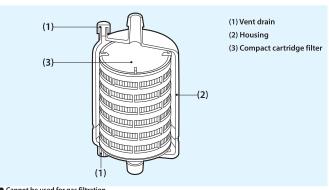


- For use in filtration, set this product in the housing (sold separately).
- The layers of #4: 6 layers for MCP-003AM and 010AM, 5 layers for MCP-005AM, and 4 layers for MCP-015AM and 030AM.

■ ORDERING INFORMATION – CAPSULE CARTRIDGE FILTERS



■ CCP-AM Type Composition



- Cannot be used for gas filtration.
- Wrap the tapered thread for piping with sealing tape before use.

■ Inlet and outlet shapes



PLEATED POLYPROPYLENE DEPTH COMPACT/CAPSULE CARTRIDGE FILTERS

■ Specifications: MCP-AM Type Compact Cartridge Filters

Model	MCP-003AM-			MCP-005AM-			MCP-010AM-			MCP-015AM-			MCP-020AM-		
	C10S	D10S	E10S	C10S	D10S	E10S	C10S	D10S	E10S	C10S	D10S	E10S	C10S	D10S	E10S
Filtration area (cm²)	330	660	1,320	280	570	1,140	190	390	780	260	520	1,040	310	620	1,250
Nominal Rating (μm)	0.3		0.5			1			1.5			2			
Layers	6			5			6			4					
Maximum Operating Differential Pressure	0.39 MPa (25°C)														
Maximum operating temperature		80°C													
Materials	O-ring: Silicone (Standard), and polypropylene for others														
Dimension (Φ 62 mm x Overall length in mm)	48	78	145	48	78	145	48	78	145	48	78	145	48	78	145

■ Specifications: CCP-AM Type Capsule Cartridge Filters

Model	CCP-003AM-			CCP-005AM-			CCP-010AM-			CCP-015AM-			CCP-020AM-		
	C1 🗆	D1 🗆	E1 🗌	C1 🗆	D1 🗌	E1 🗌	C1 🗌	D1 🗆	E1 🗌	C1 🗌	D1 🗆	E1 🗌	C1 🗆	D1 🗆	E1 🗌
Filtration area (cm ²)	330	660	1,320	280	570	1,140	190	390	780	260	520	1,040	310	620	1,250
Nominal Rating (µm)	0.3		0.5			1			1.5			2			
Layers	6			5			6			4					
Maximum Operating Pressure	0.39 MPa (25°C)														
Maximum operating temperature		60°C													
Material	Polypropylene														
Dimension (Φ 77 mm x Overall length in mm)*	102	129	201	102	129	201	102	129	201	102	129	201	102	129	201

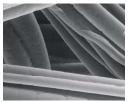
 $[\]mbox{\ensuremath{^{\ast}}}$ The dimensions for the products whose code of inlet and outlet shapes is H.

■ Particle Retention (Standard)

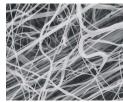
Model	Particle size										
Wodei	0.309 μm	0.506 μm	1.081 μm	1.696 µm	2.005 μm						
M C P- C C P- 003AM	> 99 %										
M C P- C C P- ⁰⁰⁵ AM		> 99 %									
M C P- C C P- 010AM			> 99 %								
M C P- C C P- 015AM				> 99 %							
M C P- C C P- 020AM					> 99 %						

[•] The particle retention that can be achieved when water in which latex balls with the above diameters are dispersed is filtered at a rate of 2 L/min. (Type D).

■ Surface of the filtering layer (Electron Micrography)





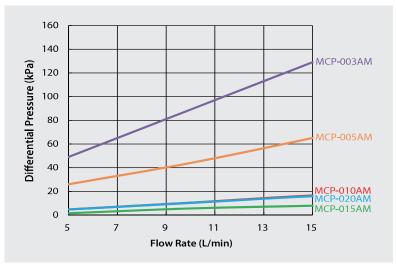


Outer layer Middle layer

Inner layer

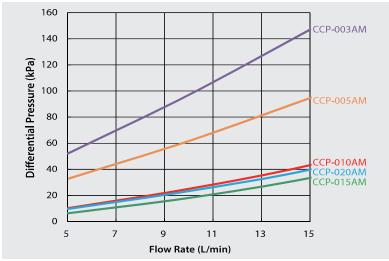
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■ Typical water flow rate for MCP Type



Conditions Sample: MCP- AM-D10S Housing: PSF-1000P Water temperature: 25°C

■ Typical water flow rate for CCP Type



Conditions Sample: CCP- AM-D1B Water temperature: 25°C



■Applicable products
CCP-003AM • 005AM • 010AM
CCP-015AM • 020AM

- Specifications listed in this brochure are subject to change without notice.
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