

MPH Type

For high flow and removal of fine particles

MICRO-PURE Filter Cartridge MPH type is a pleated filter for high-viscosity fluid filtration designed to enable stable filtration of high-viscosity fluids and fluids with high solid content, in addition to the achievement of high removal efficiency and low pressure drop.

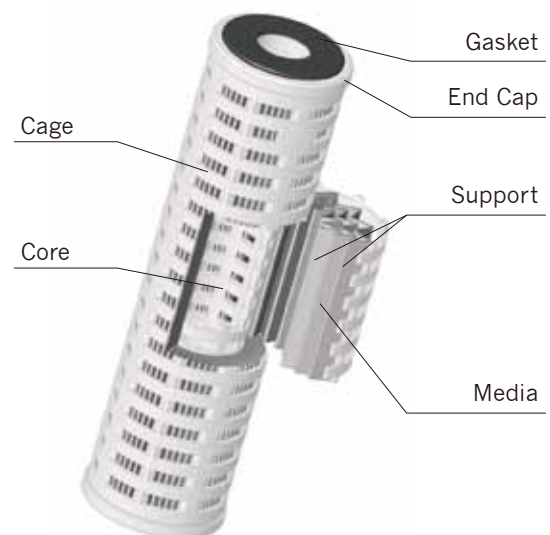
Since a great deal of flow can be obtained with a small number of filter cartridges, it is possible to reduce housing size, contributing to initial housing cost reduction and a decrease in the quantity of filters used.

Features

- Ultra fine polypropylene fiber nonwoven media is used as a main media, and this provides the high porosity of the media, achieving not only high removal efficiency but also high flow rate.
- Since the main media is reinforced with a strong net media (polyethylene), stable filtration is provided even under high differential pressure.
- It is possible to secure an effective flow route by setting best-balanced pitches of the pleated media. High-viscosity fluids and fluids with high solid content can be filtered with low pressure drop.
- Free from binders and surfactant, there is no concern about extractables.
- This filter cartridge, composed of parts completely made of polypropylene and polyethylene, shows good chemical compatibility and can be used for filtration of various fluids.



Materials of Construction



Major Applications

- Filtration of metal pastes
- Filtration of glass pastes
- Filtration of slurry with high solid content
- Filtration of various high viscosity fluids
- Others

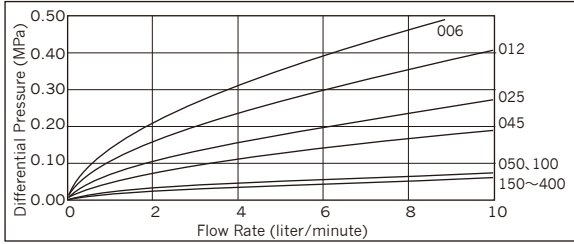


Ez-Change™ Capsule Filter Cartridge

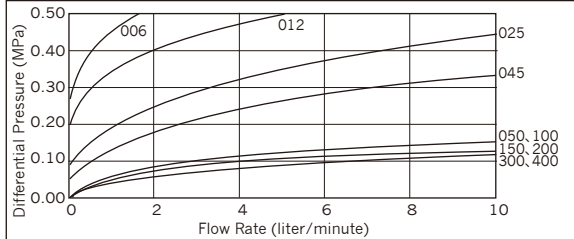
This product can be installed in the Capsulate Filter "Ez-Change". Please refer to the Ez-Change catalog in detail.

Differential Pressure vs Flow Rate

Fluid: CMC (1,000cP) Cartridge Length: 250mm



Fluid: CMC (5,000cP) Cartridge Length: 250mm



※The data do not include piping pressure drop.

Particle Removal Efficiency

Particle Size (μm)	Particle Removal Efficiency (%)									
	006	012	025	045	050	100	150	200	300	400
0.6	>98									
1.2	>99.9	>98	>95	>95						
2.5		>99.9	>99.9	>99.9						
4.5										
5.0					>98	>92	>91			
10					>99.9	>99.9	>99.9			
15								>98	>98	>95
20								>99.9	>99.9	>99.9

<Test Condition>

Equipment: Particle Counter in Liquid

Filtration : Single Pass

Fluid : Refined Water

Flow Rate : 10 liter/minute

Dust : ACFTD+Latex Beads

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

Ordering Information

250 L-MPH-006

E

F

B

[Nominal Length]

125 = 125mm
250 = 250mm
500 = 500mm
750 = 750mm

[Product Type]

[Micron Rating]

006 = 0.6μm 100 = 10μm
012 = 1.2μm 150 = 15μm
025 = 2.5μm 200 = 20μm
045 = 4.5μm 300 = 30μm
050 = 5.0μm 400 = 40μm

[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 = D. O. E.
0 = 2-222 O-Ring
5 = 2-222 O-Ring+Fin
7 = 2-226 O-Ring+Fin

[Packaging Code]

B = 6pcs
C = 10pcs
F = 25pcs

Specification

Product Type		MPH									
Grade		006	012	025	045	050	100	150	200	300	400
Micron Rating (μm)		0.6	1.2	2.5	4.5	5.0	10	15	20	30	40
E.F.A. (m ² /250L)		0.23									
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	Polypropylene									
	Support	Polyethylene									
	Core	Polypropylene									
	Cage	Polypropylene									
	End Cap	Polypropylene									
Gasket/O-Ring		NBR / EPDM / Silicone / FKM / FEP Encapsulated FKM (for 0, 5, 7) / PTFE (for F)									
Maximum ΔP (MPa)at 20°C		0.49									
Maximum Operating Temp. (°C)		80									
Adaptable Food Sanitation Standard		FDA 21CFR									

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.

End Cap Code

Code F



Code 0



Code 5



Code 7



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