

## PEA Q Flow Type

For high flow filtration applications  
(Adsorption [Diatomaceous Earth])

The PEA Q Flow cartridges are designed for high flow filtration compatible with \*high flow rate of up to four times as that of our standard PEA size and are suitable for food and beverage applications. The PEA Q Flow cartridges, manufactured with polyolefin non-woven media composed of diatomaceous earth and glass fibers, are unprecedented pleated filters with the feature of normal PEA type, the PEA Q Flow cartridges can reduce the initial cost and running cost since it can handle a large flow rate with a small number of filters.

### Features

- Used diatomaceous earth and extra-fine glass fibers, the PEA Q Flow cartridges show high performance for the removal of colloidal substances which cause turbidity of liquids when compared with conventional filters.
- The PEA Q Flow cartridges are the most suitable for the filtration of alcohol and soft drinks, since they adsorb not only colloidal substances but also organic fatty acids and polyphenols which cause sediment.
- Using the PEA Q Flow cartridges as prefiltration to membrane filters, the service life of membrane filters can be prolonged, resulting in running cost reduction.
- The PEA Q Flow cartridges comply with the food additive standards (FDA 21 CFR).
- Compared with normal filter size, Q Flow cartridges can reduce the initial cost and running cost as well as a space-saving by reducing the number of filter installation.

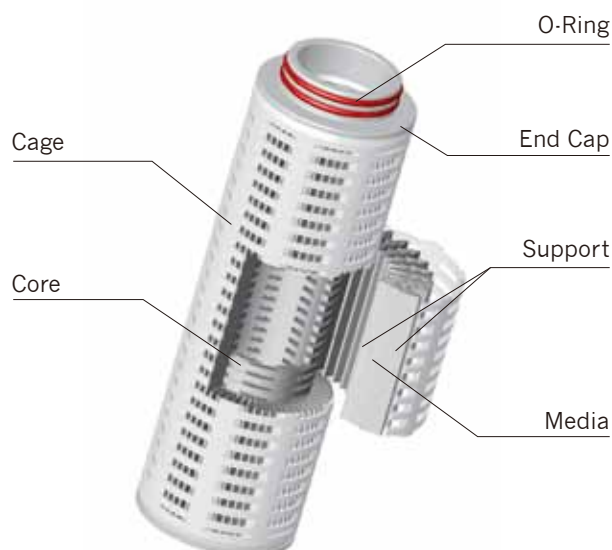


### Materials of Construction

### Major Applications

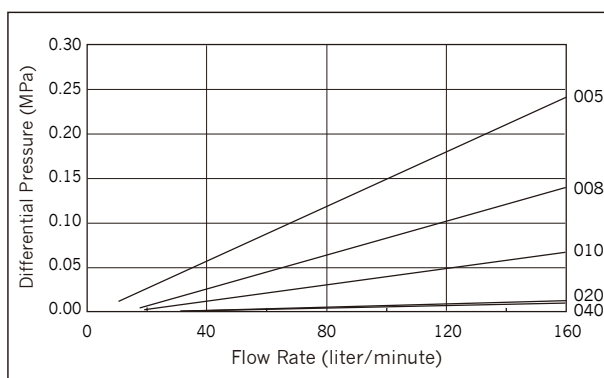
- General water for industrial use and make-up water
- Others

\* Suitable flow rate of filtration varies according to operating conditions, please contact our sales office in case of selection.



## Differential Pressure vs Flow Rate

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



※The data do not include piping pressure drop.

## Particle Removal Efficiency

Particle Size (μm)	Particle Removal Efficiency (%)				
	005	008	010	020	040
0.8	>99.9	>99.5	>99.5	>99.0	>97.5
1.0		>99.9	>99.5	>99.5	>99.5
2.0			>99.9	>99.9	>99.5
4.0					>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	PEA	010	S	E	A
[Nominal Length] 250 = 250mm 500 = 500mm 750 = 750mm 1000 = 1000mm		[Product Type]	[Micron Rating] 005 = 0.5μm 008 = 0.8μm 010 = 1.0μm 020 = 2.0μm 040 = 4.0μm	[Gasket/O-Ring] S = Silicone E = EPDM N = NBR V = FKM T = FEP Encapsulated FKM (for W,1) A = Foamed PTFE(for E)	[End Cap Code] E = Flat Gaskets W = 2-227 O-Ring 1 = 2-222 O-Ring	[Packaging Code] A = 1pc B = 6pcs C = 10pcs

## Specification

Product Type		PEA Q Flow Type				
Grade		005	008	010	020	040
Micron Rating (μm)		0.5	0.8	1.0	2.0	4.0
E.F.A. (m²/250L)		0.30	0.33	0.45	0.72	0.96
Dimen- sions	Length (mm)	250 / 500 / 750 / 1000				
	O.D. (mm)	83.0				
	I. D. (mm)	49.0 (for E, W) / 33.5(for 1)				
Materials Media	Media	Polyolefin / Diatomaceous Earth / Glass Fiber				
	Support	Polypropylene				
	Core	Polypropylene				
	Cage	Polypropylene				
	End Cap	Polypropylene				
Gasket/O-Ring		NBR / EPDM / Silicone / FKM/FEP Encapsulated FKM(for W, 1) / Foamed PTFE(for E)				
Maximum ΔP (MPa)at 20°C		0.35				
Maximum Operating Temp. (°C)		80				

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

※Q Flow exclusive housings are available. Depending on applications and filtration volume, we are pleased to offer the most suitable product, please contact us for further information.

## End Cap Code



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



Scope: Manufacture of Filter cartridges

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