



## Q-Flow (φ 83mm) Series

EPP · ECP · ECS ·  
DCP · DCS · SLP · MPX  
PED · CTZ · CFN Type

### Major Applications

- Industrial water, pure water
- Chemicals
- Resin dissolving liquid
- Oils and fats

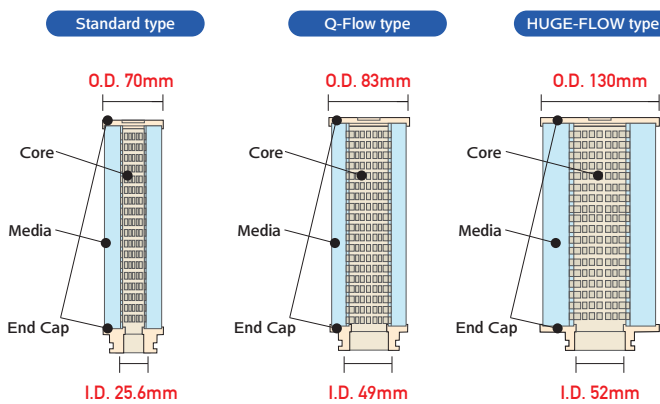
### Features

- Large outer diameter of φ 83 mm
- Choice of filter media available

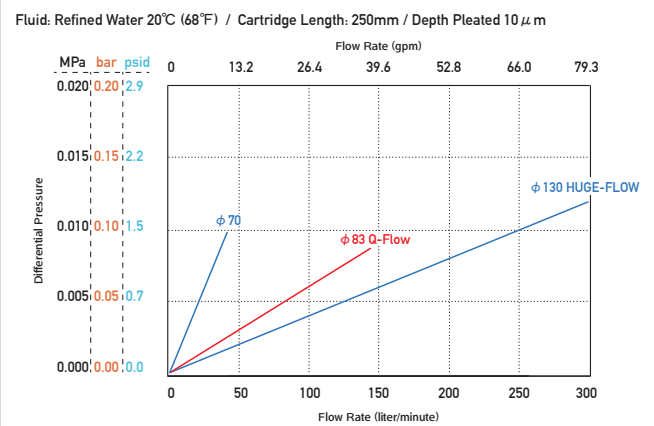
### Advantages

- Reduces the number of filter cartridges used and saves space
- Proper use according to the fluid

### Internal structure -Comparison with other shapes-



### Comparison of differential pressure vs. flow rate



### Material list

Product Type	EPP	ECP	ECS	DCP	DCS	SLP	MPX	PED	CTZ	CFN
Type	Depth (String wound)	Depth (String wound)	Depth (String wound)	Depth (String wound)	Depth (String wound)	Depth Pleated	Surface (non-woven fabric)	Adsorption	Surface (Membrane)	Surface (Membrane)
Media	PP	Bleached Cotton (Twisted yarn)	Bleached Cotton (Twisted yarn)	Bleached Cotton (Non-twisted yarn)	Bleached Cotton (Non-twisted yarn)	PP	PP	PP, Diatomaceous earth, GF	Hydrophobic PTFE Membrane	PSU membrane
Core	PP	PP	SUS304	PP	SUS304	PP	PP	PP	PP	PP

\*PP: Polypropylene, GF: Glass Fiber, PSU: Polysulfone

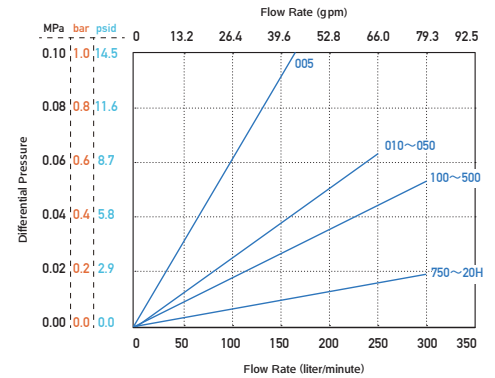
# EPP Type

## Specifications

Grades	005	010	030	050	100	250	500	750	10H	15H	20H
Micron Ratings ( $\mu$ m)	0.5	1.0	3.0	5.0	10	25	50	75	100	150	200
Materials	Polypropylene										
Media	Polypropylene										
Core	Polypropylene										
Maximum $\Delta$ P	0.35MPa at 20°C (51psi at 68°F)										
Maximum Operating Temp	60°C (140°F)										
Length	250/500/750/1000 mm										
Dimensions	O.D. 83.0mm										
	I.D. 51.0mm										

## Differential Pressure vs Flow Rate

Fluid: Refined Water 20°C (68°F) / Cartridge Length: 250mm



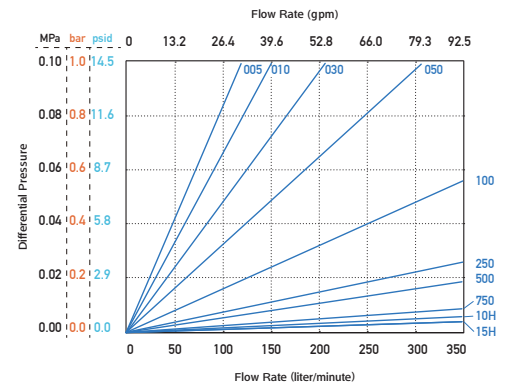
# ECP • ECS Type

## Specifications

Grades	005	010	030	050	100	250	500	750	10H	15H
Micron Ratings ( $\mu$ m)	0.5	1.0	3.0	5.0	10	25	50	75	100	150
Materials	Bleached Cotton									
Media	Bleached Cotton									
Core	Polypropylene (ECP)/SUS304 (ECS)									
Maximum $\Delta$ P	ECP: 0.35MPa at 20°C (51psi at 68°F) / ECS: 0.49MPa at 20°C (71psi at 68°F)									
Maximum Operating Temp	ECP: 80°C (176°F) / ECS: 120°C (248°F)									
Length	250/500/750/1000 mm									
Dimensions	O.D. 83.0mm									
	I.D. 50.0mm									

## Differential Pressure vs Flow Rate

Fluid: Refined Water 20°C (68°F) / Cartridge Length: 250mm



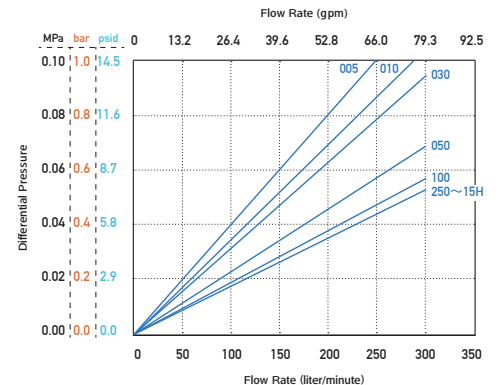
# DCP • DCS Type

## Specifications

Grades	005	010	030	050	100	250	500	750	10H	15H
Micron Ratings ( $\mu$ m)	0.5	1.0	3.0	5.0	10	25	50	75	100	150
Materials	Bleached Cotton									
Media	Bleached Cotton									
Core	Polypropylene (DCP)/SUS304 (DCS)									
Maximum $\Delta$ P	DCP: 0.35MPa at 20°C (51psi at 68°F) / DCS: 0.49MPa at 20°C (71psi at 68°F)									
Maximum Operating Temp	DCP: 80°C (176°F) / DCS: 120°C (248°F)									
Length	250/500/750 mm									
Dimensions	O.D. 83.0mm									
	I.D. 51.0mm									

## Differential Pressure vs Flow Rate

Fluid: Refined Water 20°C (68°F) / Cartridge Length: 250mm



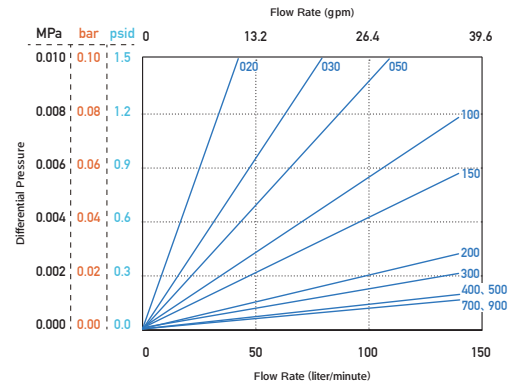
# SLP Type

## Specifications

Grades	020	030	050	100	150	200	300	400	500	700	900
Micron Ratings ( $\mu\text{m}$ )	2.0	3.0	5.0	10	15	20	30	40	50	70	90
E.F.A. ( $\text{m}^2/250\text{mm}$ )	0.36	0.34	0.32	0.34	0.29	0.28	0.29	0.29	0.29	0.29	0.29
Media	Polypropylene										
Materials Core/Cage/Support	Polypropylene										
End Cap	Polypropylene										
Maximum $\Delta P$	0.35MPa at 20°C (51psi at 68°F)										
Maximum Operating Temp	80°C (176°F)										
Dimensions Length	250 / 500 / 750 / 1000 mm										
O.D.	83.0mm										
I.D.	49.0 (for E, W) / 33.5 (for 1) mm										

## Differential Pressure vs Flow Rate

Fluid: Refined Water 20°C (68°F) / Cartridge Length: 250mm



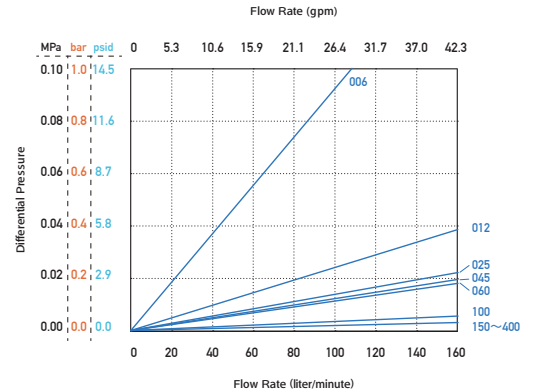
# MPX Type

## Specifications

Grades	006	012	025	045	060	100	150	200	300	400
Micron Ratings ( $\mu\text{m}$ )	0.6	1.2	2.5	4.5	6.0	10	15	20	30	40
E.F.A. ( $\text{m}^2/250\text{mm}$ )	0.81	1.10	1.10	1.10	0.53	0.71	0.79	0.71	0.71	0.55
Media/Core/Cage	Polypropylene									
Materials Support	Polyolefin									
End Cap	Polypropylene									
Maximum $\Delta P$	0.35MPa at 20°C (51psi at 68°F)									
Maximum Operating Temp	80°C (176°F)									
Dimensions Length	250 / 500 / 750 / 1000 mm									
O.D.	83.0mm									
I.D.	49.0 (for E, W) / 33.5 (for 1) mm									

## Differential Pressure vs Flow Rate

Fluid: Refined Water 20°C (68°F) / Cartridge Length: 250mm



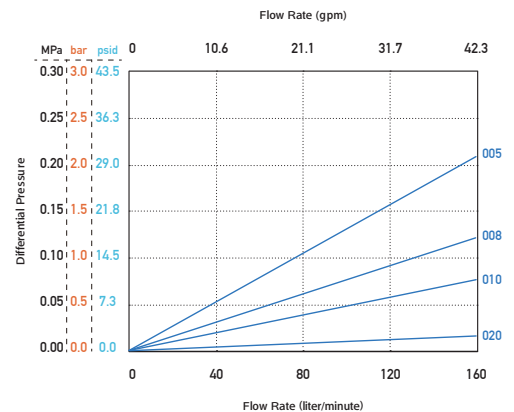
# PED Type

## Specifications

Grades	005	008	010	020
Micron Ratings ( $\mu\text{m}$ )	0.5	0.8	1.0	2.0
E.F.A. ( $\text{m}^2/250\text{mm}$ )	0.29	0.33	0.44	0.71
Media	Polypropylene, Diatomaceous Earth, Glass Fiber			
Materials Core/Cage/Support	Polypropylene			
End Cap	Polypropylene			
Maximum $\Delta P$	0.35MPa at 20°C (51psi at 68°F)			
Maximum Operating Temp	80°C (176°F)			
Dimensions Length	250 / 500 / 750 mm			
O.D.	83.0mm			
I.D.	49.0 (for E, W) / 33.5 (for 1) mm			

## Differential Pressure vs Flow Rate

Fluid: Refined Water 20°C (68°F) / Cartridge Length: 250mm



# CTZ Type

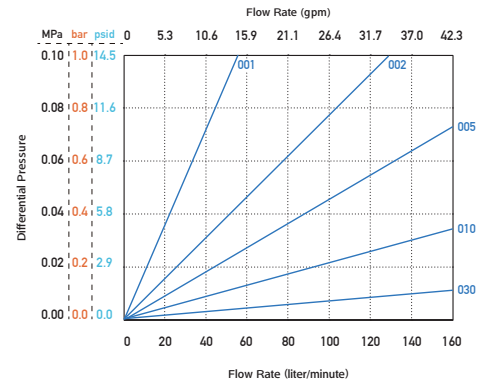
## Specifications

		001	002	005	010	030
Grades		001	002	005	010	030
Micron Ratings ( $\mu\text{m}$ )		0.1	0.2	0.45	1.0	3.0
Integrity tested		Diffusion Flow Test				*1
E.F.A.		1.24m <sup>2</sup> /250mm				
Media		Hydrophobic PTFE Membrane				
Materials	Core/Cage/Support	Polypropylene				
	End Cap	Polypropylene				
	Maximum $\Delta P$	0.35MPa at 20°C (51psi at 68°F)				
	Maximum Operating Temp	80°C (176°F)				
Dimensions	Length	250 / 500 / 750 / 1000 mm				
	O.D.	83.0mm				
	I.D.	49.0 (for E, W) / 33.5 (for 1) mm				

\*1: 100% simplified integrity test

## Differential Pressure vs Flow Rate

Fluid: Refined Water 20°C (68°F) / Cartridge Length: 250mm



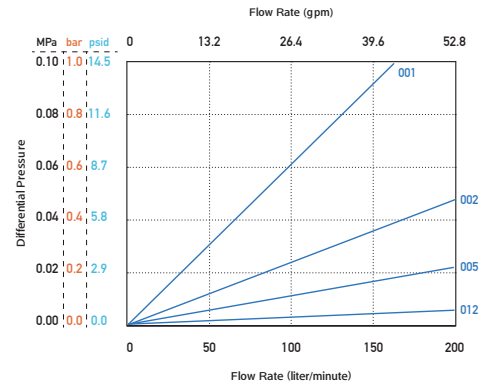
# CFN Type

## Specifications

		001	002	005	012
Grades		001	002	005	012
Micron Ratings ( $\mu\text{m}$ )		0.1	0.2	0.45	1.2
E.F.A.		1.39m <sup>2</sup> /250mm			
Media		Polysulfone (PSU) Membrane			
Materials	Core/Cage/Support	Polypropylene			
	End Cap	Polypropylene			
	Maximum $\Delta P$	0.35MPa at 20°C (51psi at 68°F)			
	Maximum Operating Temp	80°C (176°F)			
Dimensions	Length	250 / 500 / 750 / 1000 mm			
	O.D.	83.0mm			
	I.D.	49.0 (for E, W) / 33.5 (for 1) mm			

## Differential Pressure vs Flow Rate

Fluid: Refined Water 20°C (68°F) / Cartridge Length: 250mm



## Introduction of Dedicated Housing

### Q-Flow Single Filter Housing

# MA Type

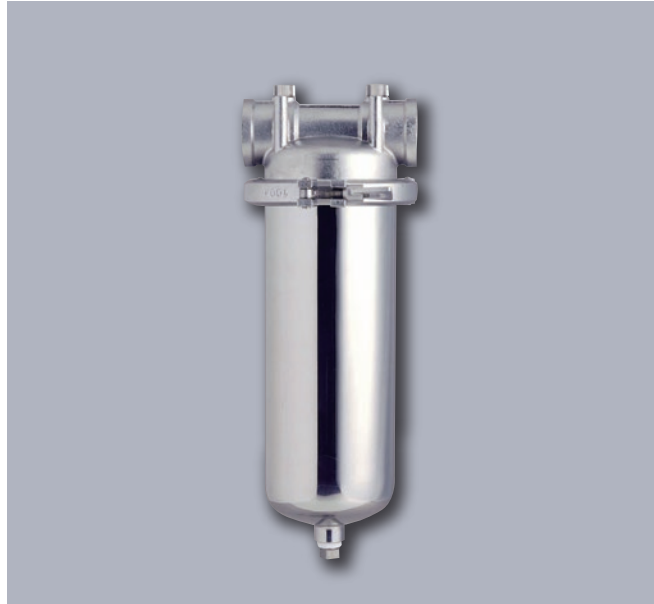
#### Major Applications

General Industry

Chemical/ Electronics

#### Main Specifications

Design pressure : 0.98MPa  
Main materials : SUS316  
Outer surfaces finishing : Electropolishing after buffing  
Inner surface finishing : Acid pickling



#### Ordering Information

Filter length

2 5 0

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

End Cap Code

E

E = Code E, MN  
W = Code W

Product Type

-MA-

Number of installed filters

001

001 = 1pc

O-Ring

N

S = Silicone  
E = EPDM  
N = NBR  
V = FKM

### Q-Flow Multi Filter Housing

# MZ Type

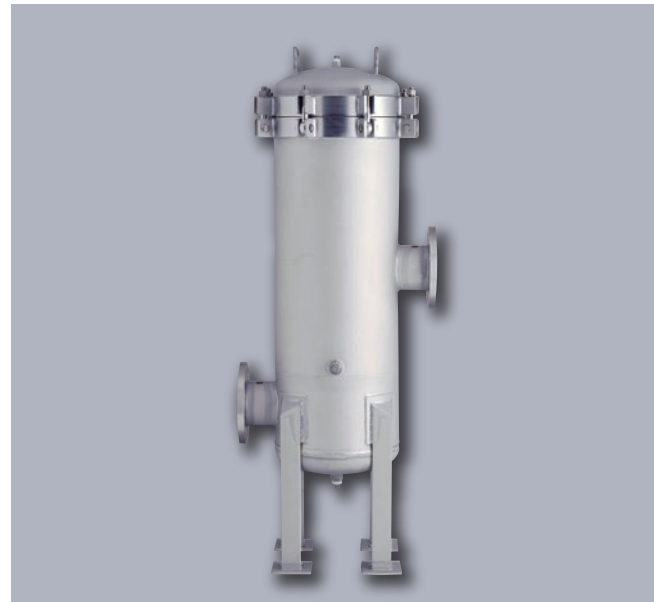
#### Major Applications

General Industry

Chemical/ Electronics

#### Main Specifications

Design pressure : 0.98MPa  
Main materials : SUS304  
Inner and Outer surfaces finishing : Acid pickling



#### Ordering Information

Filter length

2 5 0

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

End Cap Code

E

E = Code E, MN  
W = Code W

Product Type

-MZ-

Number of installed filters

0 0 6

003 = 3pcs 015 = 15pcs  
006 = 6pcs 020 = 20pcs  
009 = 9pcs 028 = 28pcs  
013 = 13pcs 033 = 33pcs

O-Ring

N

S = Silicone  
E = EPDM  
N = NBR  
V = FKM

## EPP · ECP · ECS · DCP · DCS Ordering Information

Length	Product Type	Micron Rating	End Cap Code	Packaging Code
<b>250 L</b>	<b>EPP</b>	<b>100</b>	<b>MN</b>	<b>C</b>
250 = 250 mm 500 = 500 mm 750 = 750 mm 1000 = 1000 mm  *1000mm is selectable only for EPP, ECP, ECS.	EPP DCP ECP DCS ECS	005 = 0.5 μm    500 = 50 μm 010 = 1.0 μm    750 = 75 μm 030 = 3.0 μm    10H = 100 μm 050 = 5.0 μm    15H = 150 μm 100 = 10 μm      20H = 200 μm 250 = 25 μm  *20H is selectable only for EPP.		A = 1pc B = 6pcs C = 10pcs

## SLP · MPX · PED · CTZ · CFN Ordering Information

Length	Product Type	Micron Rating	Gasket/O-Ring	End Cap Code	Packaging Code																		
<b>250 L</b>	<b>CTZ</b>	<b>002</b>	<b>E</b>	<b>E</b>	<b>C</b>																		
250 = 250 mm 500 = 500 mm 750 = 750 mm	SLP CTZ MPX CFN PED		S = Silicone E = EPDM N = NBR V = FKM T = FEP Encapsulated FKM (for W, 1) A = Foamed PTFE (for E)	E = Flat Gaskets W = 2-227 O-Ring 1 = 2-222 O-Ring	A = 1pc B = 6pcs C = 10pcs																		
<table border="0" style="width:100%; text-align:center;"> <tr> <td>↓</td> <td>↓</td> <td>↓</td> <td>↓</td> <td>↓</td> <td>↓</td> </tr> <tr> <td><b>SLP</b></td> <td><b>MPX</b></td> <td><b>PED</b></td> <td><b>CTZ</b></td> <td><b>CFN</b></td> <td></td> </tr> <tr> <td>                             020 = 2.0 μm    300 = 30 μm                              030 = 3.0 μm    400 = 40 μm                              050 = 5.0 μm    500 = 50 μm                              100 = 10 μm     700 = 70 μm                              150 = 15 μm     900 = 90 μm                              200 = 20 μm                         </td> <td>                             006 = 0.6 μm    100 = 10 μm                              012 = 1.2 μm    150 = 15 μm                              025 = 2.5 μm    200 = 20 μm                              045 = 4.5 μm    300 = 30 μm                              060 = 6.0 μm    400 = 40 μm                         </td> <td>                             005 = 0.5 μm                              008 = 0.8 μm                              010 = 1.0 μm                              020 = 2.0 μm                         </td> <td>                             001 = 0.1 μm                              002 = 0.2 μm                              005 = 0.45 μm                              010 = 1.0 μm                              030 = 3.0 μm                         </td> <td>                             001 = 0.1 μm                              002 = 0.2 μm                              005 = 0.45 μm                              012 = 1.2 μm                         </td> <td></td> </tr> </table>						↓	↓	↓	↓	↓	↓	<b>SLP</b>	<b>MPX</b>	<b>PED</b>	<b>CTZ</b>	<b>CFN</b>		020 = 2.0 μm    300 = 30 μm 030 = 3.0 μm    400 = 40 μm 050 = 5.0 μm    500 = 50 μm 100 = 10 μm     700 = 70 μm 150 = 15 μm     900 = 90 μm 200 = 20 μm	006 = 0.6 μm    100 = 10 μm 012 = 1.2 μm    150 = 15 μm 025 = 2.5 μm    200 = 20 μm 045 = 4.5 μm    300 = 30 μm 060 = 6.0 μm    400 = 40 μm	005 = 0.5 μm 008 = 0.8 μm 010 = 1.0 μm 020 = 2.0 μm	001 = 0.1 μm 002 = 0.2 μm 005 = 0.45 μm 010 = 1.0 μm 030 = 3.0 μm	001 = 0.1 μm 002 = 0.2 μm 005 = 0.45 μm 012 = 1.2 μm	
↓	↓	↓	↓	↓	↓																		
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### End Cap Code



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

\*The performance data listed in the catalog are Typical values obtained under specific conditions based on our tests.

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Manufacturing is based on our Quality Management Systems that meet ISO9001 standards.

**Scope**  
 Design, Development, manufacture, and sales of filter cartridges, housings and filtration equipment.



2nd Issue  
 QFlow220219E