



MICRO-CILIA Series

EX · CS · NS · GS ·
EBP · EBR · EBN · EBS ·
ECR · VNN Type

Major Applications

Industrial water, pure water

Chemicals

Resin dissolving liquid

*Ez-Change compatible type: EX

(For details, please refer to Applicable capsules list for each product type)

Features

- Choice of filter media and core material
- Thread-wound type depth filter using twisted yarn

Advantages

- Maximum 200°C
- Use for different fluids
- Long service life
- Excellent cost performance

Material list

Product Type	EX	CS	ECR	GS	EBP	EBR	EBN	EBS	NS	VNN
Media	PP	Bleached Cotton	Bleached Cotton	Glass Fiber	PPS	PPS	PPS	PPS	Nylon	Nylon
Core	PP	SUS304	Reinforced PP	SUS304	PP	Reinforced PP	Nylon	SUS304	SUS304	Nylon

※PPS: Polyphenylene Sulfide, PP: Polypropylene

Picture

Polypropylene



Bleached Cotton



Glass Fiber



Polyphenylene Sulfide



Nylon



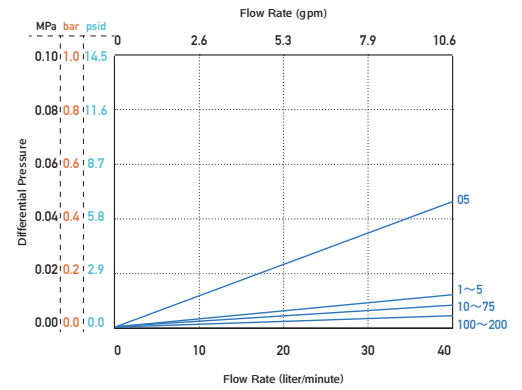
EX Type

Specifications											
Grades	05	1	3	5	10	25	50	75	100	150	200
Micron Ratings (μm)	0.5	1.0	3.0	5.0	10	25	50	75	100	150	200
Materials	Polypropylene										
Media	Polypropylene										
Core	Polypropylene										
Maximum ΔP	0.49MPa at 20°C (71psi at 68°F)										
Maximum Operating Temp	60°C (140°F)										
Length	125 / 250 / 500 / 750 mm										
Dimensions	O.D.	61.0mm									
	I.D.	29.5mm									
Adaptable Food Sanitation Standard	All raw materials meet the requirement of FDA 21 CFR *1										

*If you need further information on specifications (length, end cap type, etc.), please contact us.
 *1 Applicable Gaskets and O-ring materials exclude EPDM.

Differential Pressure vs Flow Rate

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



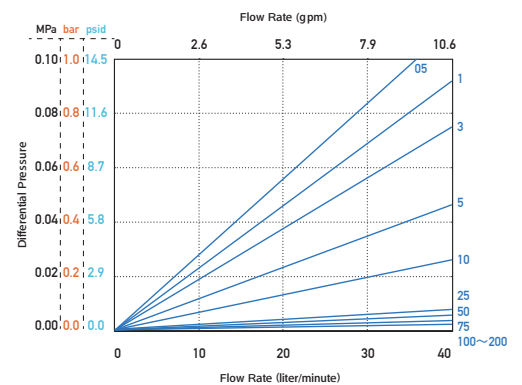
CS Type

Specifications											
Grades	05	1	3	5	10	25	50	75	100	150	200
Micron Ratings (μm)	0.5	1.0	3.0	5.0	10	25	50	75	100	150	200
Materials	Bleached Cotton										
Media	Bleached Cotton										
Core	SUS304										
Maximum ΔP	0.49MPa at 20°C (71psi at 68°F)										
Maximum Operating Temp	120°C (248°F)										
Length	125 / 250 / 500 / 750 mm										
Dimensions	O.D.	61.0mm									
	I.D.	28.5mm									
Adaptable Food Sanitation Standard	All raw materials meet the requirement of FDA 21 CFR *1										

*If you need further information on specifications (length, end cap type, etc.), please contact us.
 *1 Applicable Gaskets and O-ring materials exclude EPDM.

Differential Pressure vs Flow Rate

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



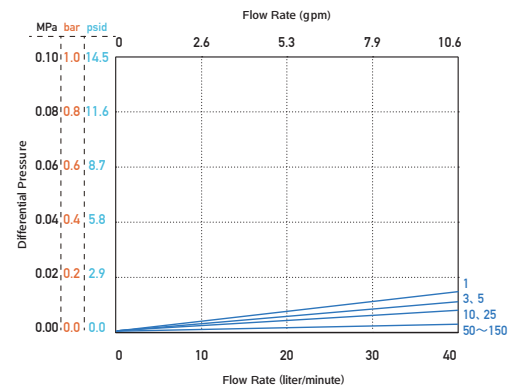
NS Type

Specifications											
Grades	1	3	5	10	25	50	75	100	150		
Micron Ratings (μm)	1.0	3.0	5.0	10	25	50	75	100	150		
Materials	Nylon										
Media	Nylon										
Core	SUS304										
Maximum ΔP	0.49MPa at 20°C (71psi at 68°F)										
Maximum Operating Temp	120°C (248°F)										
Length	125 / 250 / 500 / 750 mm										
Dimensions	O.D.	61.0mm									
	I.D.	28.5mm									

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

Differential Pressure vs Flow Rate

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



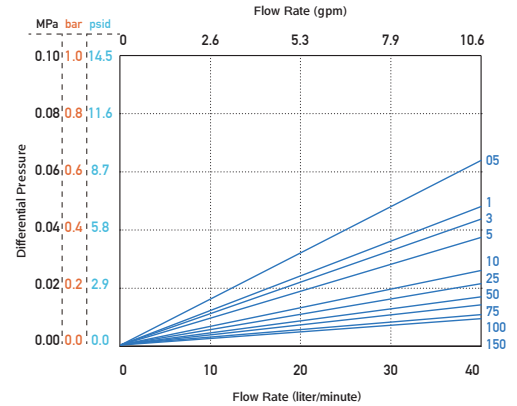
GS Type

Specifications										
Grades	05	1	3	5	10	25	50	75	100	150
Micron Ratings (μm)	0.5	1.0	3.0	5.0	10	25	50	75	100	150
Materials	Glass Fiber									
Media	Glass Fiber									
Core	SUS304									
Maximum ΔP	0.49MPa at 20°C (71psi at 68°F)									
Maximum Operating Temp	200°C (392°F)									
Length	125 / 250 / 500 / 750 mm									
Dimensions	O.D. 60.0mm									
	I.D. 28.5mm									

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

Differential Pressure vs Flow Rate

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



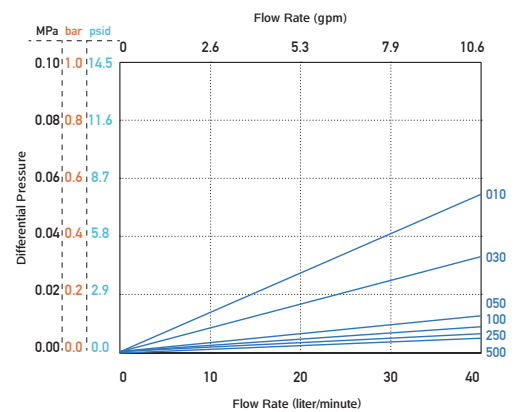
EBP • EBR • EBN • EBS Type

Specifications						
Grades	010	030	050	100	250	500
Micron Ratings (μm)	1.0	3.0	5.0	10	25	50
Materials	PPS (Polyphenylene Sulfide)					
Media	PPS (Polyphenylene Sulfide)					
Core	Polypropylene (EBP)	Reinforced Polypropylene (EBR)	Nylon (EBN)	SUS304 (EBS)		
Maximum Operating Temp	EBP: 80°C (176°F)	EBR: 100°C (212°F)	EBN: 120°C (248°F)	EBS: 190°C (374°F)		
Maximum ΔP	0.49MPa at 20°C (71psi at 68°F)					
Length	125 / 250 / 500 / 750 mm					
Dimensions	O.D. 61.0mm					
	I.D. 28.5 (EBS) / 29.5 (EBP • EBR • EBN) mm					

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

Differential Pressure vs Flow Rate

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



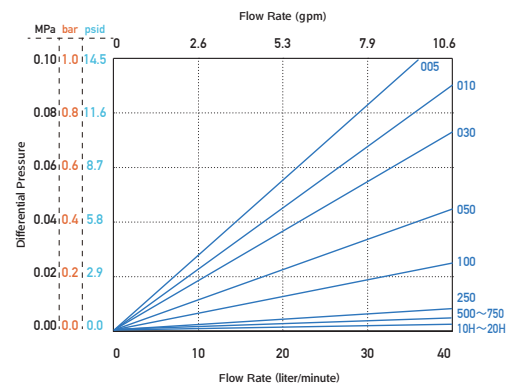
ECR Type

Specifications											
Grades	005	010	030	050	100	250	500	750	10H	15H	20H
Micron Ratings (μm)	0.5	1.0	3.0	5.0	10	25	50	75	100	150	200
Materials	Bleached Cotton										
Media	Bleached Cotton										
Core	Reinforced Polypropylene										
Maximum ΔP	0.49MPa at 20°C (71psi at 68°F)										
Maximum Operating Temp	100°C (212°F)										
Length	125 / 250 / 500 / 750 mm										
Dimensions	O.D. 61.0mm										
	I.D. 29.5mm										

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

Differential Pressure vs Flow Rate

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



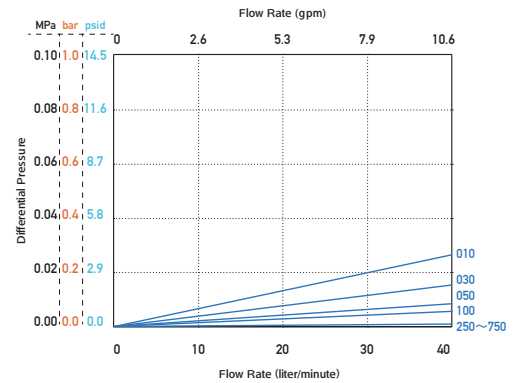
VNN Type

Specifications							
Grades	010	030	050	100	250	500	750
Micron Ratings (μm)	1.0	3.0	5.0	10	25	50	75
Materials	Media	Nylon					
	Core	Nylon					
Maximum ΔP	0.49MPa at 20°C (71psi at 68°F)						
Maximum Operating Temp	120°C (248°F)						
Dimensions	Length	125 / 250 / 500 / 750 mm					
	O.D.	61.0mm					
	I.D.	29.5mm					

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

Differential Pressure vs Flow Rate

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



EX·CS·NS·GS Ordering Information

Standard End Type

Length

2 5 0 L

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

Product Type

- EX -

EX = All Polypropylene
CS = Cotton + SUS304
NS = Nylon + SUS304
GS = Glass Fiber + SUS304

Micron Rating

1 0 0

05 = 0.5 μm 50 = 50 μm
1 = 1.0 μm 75 = 75 μm
3 = 3.0 μm 100 = 100 μm
5 = 5.0 μm 150 = 150 μm
10 = 10 μm 200 = 200 μm
25 = 25 μm

Packaging Code

C

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

* F=25 pcs. is not available for only GS type with 750mm.



EBP·EBR·EBN·EBS Ordering Information

Standard End Type

Length

2 5 0 L

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

Product Type

-EB R -

P = Polypropylene Core
R = Reinforced PP Core*
N = Nylon Core
S = SUS304 Core

*PP = Polypropylene

Micron Rating

5 0 0 CZ

010 = 1.0 μm 100 = 10 μm
030 = 3.0 μm 250 = 25 μm
050 = 5.0 μm 500 = 50 μm

Packaging Code

F

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



ECR·VNN Ordering Information

Standard End Type

Length

2 5 0 L

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

Product Type

- ECR -

ECR = Cotton + Reinforced PP Core*
VNN = All Nylon

*PP = Polypropylene

Micron Rating

5 0 0 CZ

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 *Only ECR can be selected.

Packaging Code

F

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



*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.



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MS CM009

3rd Issue

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