



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

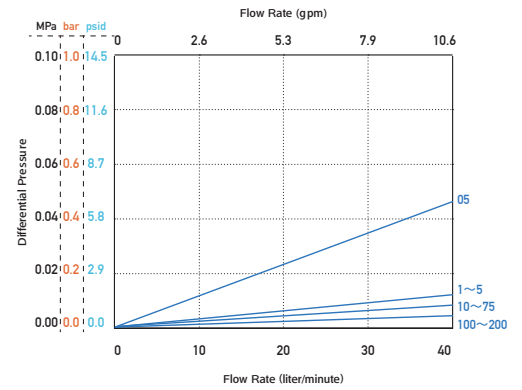
| Specifications | | | | | | | | | | | |
|------------------------------------|---|-----|-----|-----|----|----|----|----|-----|-----|-----|
| Grades | 05 | 1 | 3 | 5 | 10 | 25 | 50 | 75 | 100 | 150 | 200 |
| Micron Ratings (μm) | 0.5 | 1.0 | 3.0 | 5.0 | 10 | 25 | 50 | 75 | 100 | 150 | 200 |
| Materials | 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

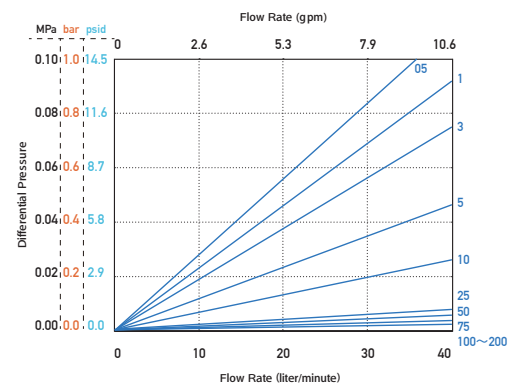
| Specifications | | | | | | | | | | | |
|------------------------------------|---|-----|-----|-----|----|----|----|----|-----|-----|-----|
| Grades | 05 | 1 | 3 | 5 | 10 | 25 | 50 | 75 | 100 | 150 | 200 |
| Micron Ratings (μm) | 0.5 | 1.0 | 3.0 | 5.0 | 10 | 25 | 50 | 75 | 100 | 150 | 200 |
| Materials | 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



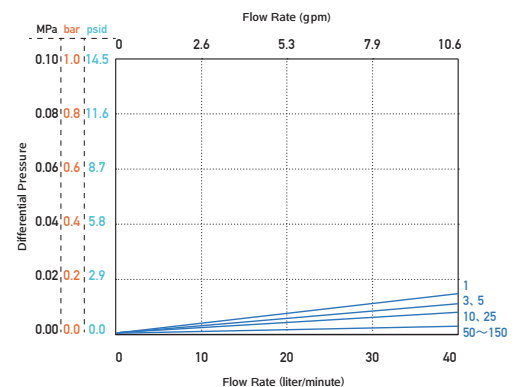
NS Type

| 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



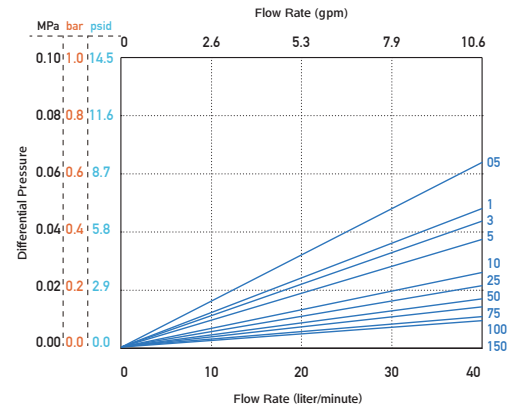
GS Type

| 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



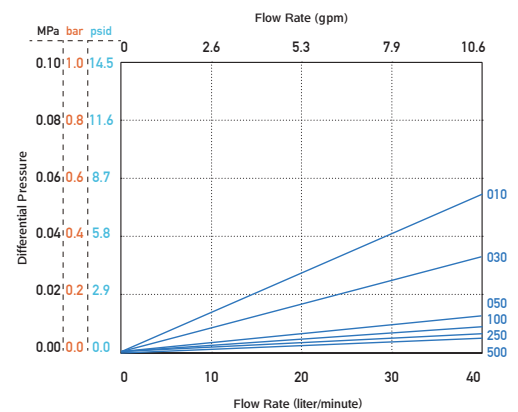
EBP • EBR • EBN • EBS Type

| 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



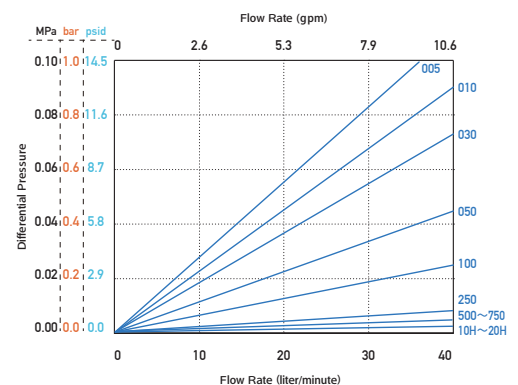
ECR Type

| 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



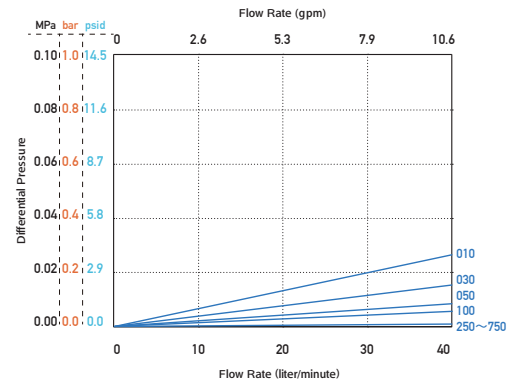
VNN Type

| 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

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.

Standard End Type



EBP·EBR·EBN·EBS Ordering Information

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

Standard End Type



ECR·VNN Ordering Information

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

Standard End Type



*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.



JQA-QMA16323

MS CM009

4th Issue

M-C-SERIES_210310E