



## CILIA-CLEAN

# HC Type

### Major Applications

- Adhesive
- High viscosity liquids
- Other high solid content paste

### Features

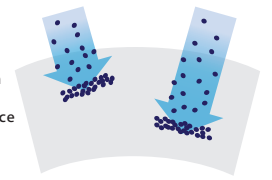
- Depth filter with direct flow structure
- Polypropylene / Polyethylene filter media, parts
- No use of binder or surfactant

### Advantages

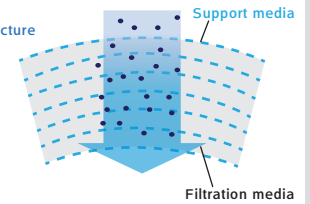
- Excellent liquid permeability and filtration stability for high viscosity liquids
- Wide range of fluid compatibility
- Low extractables risk

### Structure

**General depth filter**  
When a high viscosity liquid is flowed, the filtration layers are consolidated and a specific layer on the surface or inside the filter is intensively clogged.



**Features of direct flow structure**  
Effective use of the entire filter by combining the filtration media and the support media.



## Specifications

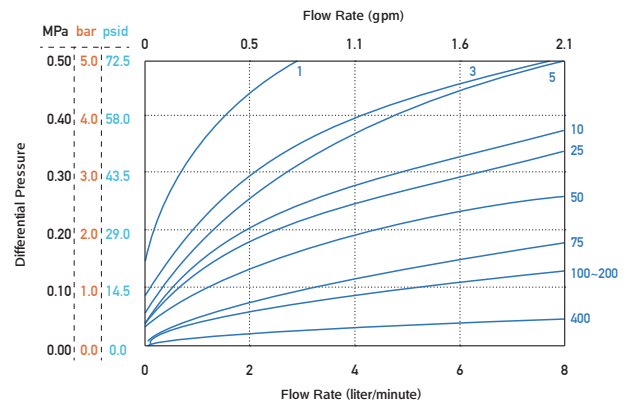
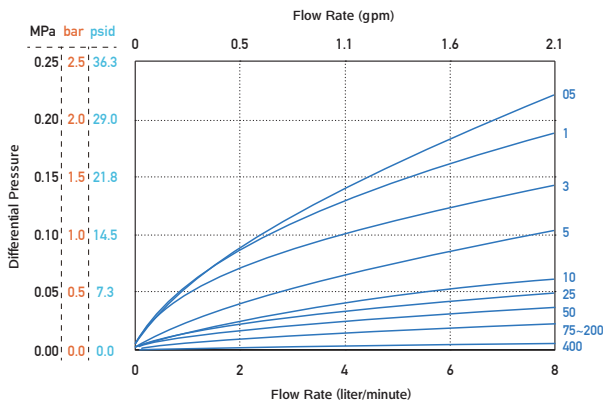
|                     |                        | 05   | 1   | 3   | 5   | 10 | 25 | 50 | 75 | 100 | 150 | 200 | 400 |
|---------------------|------------------------|--|-----|-----|-----|----|----|----|----|-----|-----|-----|-----|
| Grades              |                        | 05   | 1   | 3   | 5   | 10 | 25 | 50 | 75 | 100 | 150 | 200 | 400 |
| Micron Ratings (μm) |                        | 0.5  | 1.0 | 3.0 | 5.0 | 10 | 25 | 50 | 75 | 100 | 150 | 200 | 400 |
| Materials           | Media                  | Polypropylene  |     |     |     |    |    |    |    |     |     |     |     |
|                     | Core/Support           | Polypropylene  |     |     |     |    |    |    |    |     |     |     |     |
|                     | Cage                   | 0.5~50 μm: Polypropylene (for 0, F) / 75~400 μm: Polyethylene (for 0, F) |     |     |     |    |    |    |    |     |     |     |     |
|                     | End Cap                | Polypropylene (for 0, F)   |     |     |     |    |    |    |    |     |     |     |     |
|                     | Maximum ΔP             | 0.49MPa at 20°C (71psi at 68°F)  |     |     |     |    |    |    |    |     |     |     |     |
|                     | Maximum Operating Temp | 60°C (140°F) *Standard specification / 80°C (176°F) *for 0, F            |     |     |     |    |    |    |    |     |     |     |     |
| Dimensions          | Length                 | 125 / 250 / 500 mm   |     |     |     |    |    |    |    |     |     |     |     |
|                     | O.D.                   | 67.0 (Standard specification) / 70.0 (for 0, F) mm                       |     |     |     |    |    |    |    |     |     |     |     |
|                     | I.D.                   | 25.5 (Standard specification) / 25.6 (for 0) / 26.1 (for F) mm           |     |     |     |    |    |    |    |     |     |     |     |

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

## Differential Pressure vs Flow Rate

Fluid: CMC (400mPa·s) / Cartridge Length: 250mm

Fluid: CMC (10Pa·s) / Cartridge Length: 250mm



## Particle Removal Efficiency

| Grades<br>Particle Size (μm) | Particle Removal Efficiency (%) |       |       |       |       |       |       |       |       |       |     |     |
|------------------------------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|
|                              | 05                              | 1     | 3     | 5     | 10    | 25    | 50    | 75    | 100   | 150   | 200 | 400 |
| 3                            | >75                             |       |       |       |       |       |       |       |       |       |     |     |
| 5                            | >90                             | >90   | >80   |       |       |       |       |       |       |       |     |     |
| 10                           | >99.9                           | >99.9 | >98   | >90   |       |       |       |       |       |       |     |     |
| 25                           |                                 |       | >99.9 | >99.9 | >98   | >90   | >80   |       |       |       |     |     |
| 50                           |                                 |       |       |       | >99.9 | >99.9 | >99.9 | >75   |       |       |     |     |
| 75                           |                                 |       |       |       |       |       |       | >85   | >75   | >60   |     |     |
| 100                          |                                 |       |       |       |       |       |       | >95   | >90   | >80   | >70 |     |
| 150                          |                                 |       |       |       |       |       |       | >99.9 | >99.9 | >94   | >90 | >60 |
| 200                          |                                 |       |       |       |       |       |       | >99.9 | >99.9 | >99.9 | >75 |     |

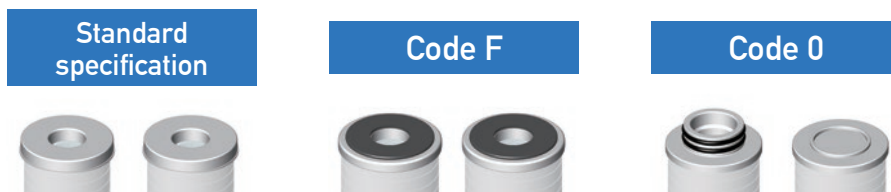
### Test Conditions

Equipment : Liquid Particle Counter  
 Filtration : Single Pass  
 Fluid : Refined Water  
 Flow Rate : 10 liter/minute  
 Dust : ACFTD+LATEX Beads (HC-05~10)  
 Diatomaceous earth (HC-25·50)  
 Polyester powder (HC-75~400)

## Ordering Information

| Length                                    | Product Type | Micron Rating   | Gasket/O-Ring   | End Cap Code                         | Packaging Code                     |
|---|--------------|---|---|--------------------------------------|------------------------------------|
| 2   5   0   L                             | -HC-         | 1   0   0   | E   | F                                    | C                                  |
| 125 = 125mm<br>250 = 250mm<br>500 = 500mm |              | 05 = 0.5 μm    50 = 50 μm<br>1 = 1.0 μm    75 = 75 μm<br>3 = 3.0 μm    100 = 100 μm<br>5 = 5.0 μm    150 = 150 μm<br>10 = 10 μm    200 = 200 μm<br>25 = 25 μm    400 = 400 μm | Blank (Standard specification)<br>Foamed Polyethylene Gasket<br>E = EPDM<br>V = FKM | F = Flat Gaskets<br>0 = 2-222 O-Ring | B = 6pcs<br>C = 10pcs<br>F = 25pcs |

## 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.



21st Issue  
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