The SHB cartridges are the combination type filters equipped with the features of both pleated and depth cartridges. The SHB cartridges are exclusively designed for the filtration of liquids with high viscosity and high solid contents. Glass fibers as main media are used, which shows high performance for removal of sub-micron particles and soft contaminants such as gels.

### Features
- Because the media is reinforced with a rigid net support material (polyolefin), the SHB cartridges provide stable filtration of high viscous liquids and high solid contents under low differential pressure without the media deformation.
- Equipped with the features of both thick media in depth construction and a large surface area in pleated construction, the SHB cartridges provide longer service life, resulting in initial cost or running cost reduction.
- Using glass fibers as a main filter media, the SHB can efficiently remove submicron particles and gel substance.

### Major Applications
- Micro separation for high solid content slurry and filtration for gel substance
- Micro separation for functional paints and pigment resist, and filtration for gel substance
- Others

### Materials of Construction

The SHB cartridges are the combination type filters equipped with the features of both pleated and depth cartridges. The SHB cartridges are exclusively designed for the filtration of liquids with high viscosity and high solid contents. Glass fibers as main media are used, which shows high performance for removal of sub-micron particles and soft contaminants such as gels.

### Ez-Change™
Capsule Filter Cartridge
This product can be installed in the Capsulate Filter "Ez-Change". Please refer to the Ez-Change catalog in detail.
### Differential Pressure vs Flow Rate

Fluid: CMC(400cP)
Cartridge Length: 250mm

![Differential Pressure vs Flow Rate Graph](image)

Fluid: CMC(1000cP)
Cartridge Length: 250mm

![Differential Pressure vs Flow Rate Graph](image)

*The data do not include piping pressure drop.

### Particle Removal Efficiency

<table>
<thead>
<tr>
<th>Micron Size (µm)</th>
<th>005 Removal Efficiency (%)</th>
<th>010 Removal Efficiency (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5</td>
<td>&gt;99.9</td>
<td>&gt;95</td>
</tr>
<tr>
<td>1.0</td>
<td>&gt;99.9</td>
<td></td>
</tr>
</tbody>
</table>

*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.

### Specification

<table>
<thead>
<tr>
<th>Specification</th>
<th>005</th>
<th>010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade</td>
<td>0.5</td>
<td>1.0</td>
</tr>
<tr>
<td>Micron Rating (µm)</td>
<td>0.20</td>
<td></td>
</tr>
<tr>
<td>E.F.A. (m²/250L)</td>
<td>125 / 250 / 500 / 750</td>
<td></td>
</tr>
<tr>
<td>O.D. (mm)</td>
<td>70.0</td>
<td></td>
</tr>
<tr>
<td>L. O. (mm)</td>
<td>27.0 (for PZ) / 26.1 (for F) / 25.6 (for 0, 5) / 29.5 (for 7)</td>
<td></td>
</tr>
<tr>
<td>Media</td>
<td>Resin bonded Glass Fiber, Polypropylene</td>
<td></td>
</tr>
<tr>
<td>Support</td>
<td>Polyolefin</td>
<td></td>
</tr>
<tr>
<td>Core</td>
<td>Polypropylene</td>
<td></td>
</tr>
<tr>
<td>Cage</td>
<td>Polypropylene</td>
<td></td>
</tr>
<tr>
<td>End Cap</td>
<td>Polypropylene (for F, 0, 5, 7) / Foamed Polyethylene (for PZ)</td>
<td></td>
</tr>
<tr>
<td>Gasket/O-Ring</td>
<td>Silicone / EPDM / NBR / FKM / FEP Encapsulated FKM (for 0, 5, 7) / PTFE (for F)</td>
<td></td>
</tr>
<tr>
<td>Maximum ∆P (MPa) at 20ºC</td>
<td>0.49</td>
<td></td>
</tr>
<tr>
<td>Maximum Operating Temp. (ºC)</td>
<td>80 / 60 (only PZ)</td>
<td></td>
</tr>
</tbody>
</table>

### Ordering Information

250 L - SHB - 020 E F B

- Nominal Length
  - 125 = 125mm
  - 250 = 250mm
  - 500 = 500mm
  - 750 = 750mm

- Micron Rating
  - 005 = 0.5µm
  - 010 = 1.0µm

- Gasket/O-Ring
  - P = Foamed Polyethylene
  - S = Silicone
  - E = EPDM
  - N = NBR
  - V = FKM
  - T = FEP Encapsulated FKM (for 0, 5, 7)
  - Z = only for P gasket
  - F = Flat Gaskets
  - 0 = 2.222 O-Ring
  - 5 = 2.222 O-Ring + Fin
  - 7 = 2.226 O-Ring + Fin
  - PTFE (for F)

- End Cap Code
  - Code PZ
  - Code F
  - Code 0
  - Code 5
  - Code 7

*The above data are based on our test condition, and are not guaranteed value.

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

### End Cap Code

- Code PZ
- Code F
- Code 0
- Code 5
- Code 7

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