Eaton’s LOFPLEAT HP filter cartridges are suitable for a wide range of process applications including aqueous solutions, chemicals, process water, RO prefilters and ink.

This high efficiency, high performance filter cartridges are constructed with a large surface area, melt blown polypropylene filter material for high dirt-holding capacity with low initial pressure drop.

Features and benefits
- Fits broad range of applications with 0.2 to 20 micron retention ratings
- Beta rating of 5000, 99.98% efficiency
- High-flow and long service life for minimum maintenance
- Fixed pore structure prevents dirt unloading even at high differential pressure
- Heavy-duty molded cage for high structural strength

Design
- **Filter material**: Polypropylene
- **Inner core, cage, end caps**: Polypropylene
- **Gaskets/O-rings**: Silicone (standard), Buna-N, EPDM, FPM, FEP encapsulated (O-rings only)

Retention ratings
- 0.2, 0.45, 1, 2.5, 5, 10, 20 µm @ 99.98% efficiency

Technical data
- **Nominal lengths**: 5”, 9.75”, 10”, 20”, 30”, 40” (12.7, 24.7, 25.4, 50.8, 76.2, 101.6 cm)
- **Outside diameter**: 2.7” (6.9 cm)
- **Inside diameter**: 1” (2.54 cm)
- **Surface area**: 0.85 m² per 10” element
- **Max. operating temperature**: 80°C
- **Max. differential pressures**: 5.2 bar @ 21°C
  2.8 bar @ 80°C
- **Recommended differential change-out pressure for disposal**: 2.4 bar
LOFPLEAT HP high performance filter cartridges

Flow rate* (21 °C per 10" filter cartridge)

* For liquids other than water, multiply pressure drop by fluid viscosity in centipoise.

Efficiency of retention

<table>
<thead>
<tr>
<th>Beta ratio retention of efficiency</th>
<th>Beta 5000</th>
<th>Beta 100</th>
<th>Beta 50</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.2 µm</td>
<td>0.2</td>
<td>0.1</td>
<td>0.05</td>
</tr>
<tr>
<td>0.45 µm</td>
<td>0.45</td>
<td>0.3</td>
<td>0.2</td>
</tr>
<tr>
<td>1 µm</td>
<td>1</td>
<td>0.6</td>
<td>0.3</td>
</tr>
<tr>
<td>2.5 µm</td>
<td>2.5</td>
<td>2</td>
<td>1.5</td>
</tr>
<tr>
<td>5 µm</td>
<td>5</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>10 µm</td>
<td>10</td>
<td>8</td>
<td>7</td>
</tr>
<tr>
<td>20 µm</td>
<td>20</td>
<td>17</td>
<td>15</td>
</tr>
</tbody>
</table>

Beta ratio = \( \frac{\text{Upstream particle counts}}{\text{Downstream particle counts}} \)

The micron ratings shown at various efficiency and beta ratio value levels were determined through laboratory testing, and can be used as a guide for selecting cartridges and estimating their performance. Under actual field conditions, results may vary somewhat from the values shown due to the variability of filtration parameters. Testing was conducted using the single-pass test method, water at 9.46 l/min/10" cartridge. Contaminants included latex beads, coarse and fine test dust. Removal efficiencies were determined using dual laser source particle counters.

Ordering code

- **Nominal lengths**
  - 5: 5"
  - 9: 9.75"
  - 10: 10"
  - 20: 20"
  - 30: 30"
  - 40: 40"

- **Gaskets or O-rings**
  - S: Silicone
  - B: Buna-N
  - E: EPDM
  - V: FPM
  - T: FEP encapsulated (O-rings only)

- **Adapter codes**
  - -DOE: Double open end
  - -1: 226/Flat single open end
  - -2: 222/Fin single open end
  - -3: 226/Fin single open end
  - -4: 222/Flat single open end
  - -1X: Extended core
  - -10: Double open end, internal O-rings
  - -20: Single open end, internal O-ring
  - -28: 222/Fin single open end, triple bayonet

- **Pre-rinse option**
  - -R: Factory pre-rinse

- **Insert**
  - -I: End cap insert for steaming

- **Filter type**
  - LPHP
  - LOFPLEAT HP

- **Retention ratings**
  - -0.2 µm
  - -0.45 µm
  - -1 µm
  - -2.5 µm
  - -5 µm
  - -10 µm
  - -20 µm

Request a Quote Today!

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