LOFPLEAT™ HF-G high flow capacity fiberglass filter cartridges

Eaton’s LOFPLEAT HF-G filter cartridges can be used in a variety of applications where high flow capacity is required including fuel oils, chemicals, petrochemicals, solvents and oil and gas.

LOFPLEAT HF-G filter cartridges are designed with pleated micro fiberglass filter material construction to provide a high total surface area. A single LPHF-G filter cartridge can replace several standard cartridge elements. Change-outs are quick and easy. Unlike standard design filter cartridges, the flow is inside out. The result is higher dirt-holding capacity.

**Features and benefits**
- Higher flow capacity reduces required number of filter cartridges
- Lower initial costs with smaller filter housings
- Less labor required for change-outs
- Available with absolute rated filter material at 1 to 20 µm retention ratings
- Inside-out flow for greater dirt-holding capacity
- Capable of flow rates up to 1,892.5 l/min in a single 60” length
- Can be retrofitted in most competitive high-flow housings
- Thermally bonded construction

**Technical data**

<table>
<thead>
<tr>
<th>Nominal lengths</th>
<th>20”, 40”, 60” (50.8, 101.6, 152.4 cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outside diameter</td>
<td>6” (152.4 cm)</td>
</tr>
<tr>
<td>Surface area</td>
<td>2.4 m² per 20” element</td>
</tr>
<tr>
<td>Max. operating temperatures</td>
<td>Polyacetal: 110 °C  Polypropylene: 82 °C</td>
</tr>
<tr>
<td>Max. differential pressures</td>
<td>5.2 bar @ 21 °C  1.4 bar @ 82 °C  3.4 bar @ 110 °C</td>
</tr>
<tr>
<td>Recommended differential change-out pressure for disposal</td>
<td>2.4 bar</td>
</tr>
<tr>
<td>Max. flow rates</td>
<td>20” element: 662 l/min  40” element: 1,325 l/min  60” element: 1,892 l/min</td>
</tr>
</tbody>
</table>

**Care**
- Filter material
  - Micro fiberglass
- Cage
  - Polyester or polypropylene
- End caps
  - Polyacetal or polypropylene
- Gaskets/O-rings
  - EPDM (standard), silicone, Buna-N, FPM

**Retention ratings**
- 1, 2.5, 4.5, 10, 20 µm @ 99.9% efficiency
LOFPLEAT HF-G high flow capacity fiberglass filter cartridges

Element pressure drop

<table>
<thead>
<tr>
<th></th>
<th>20”</th>
<th>40”</th>
<th>60”</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>11.9419</td>
<td>5.9709</td>
<td>3.9806</td>
</tr>
<tr>
<td>2.5</td>
<td>5.5385</td>
<td>2.7692</td>
<td>1.8462</td>
</tr>
<tr>
<td>4.5</td>
<td>4.3549</td>
<td>2.1775</td>
<td>1.4516</td>
</tr>
<tr>
<td>10</td>
<td>2.8830</td>
<td>1.4415</td>
<td>0.9610</td>
</tr>
<tr>
<td>20</td>
<td>2.0940</td>
<td>1.0470</td>
<td>0.6980</td>
</tr>
</tbody>
</table>

Note: For chemical compatibility, flow rates, and temperature requirements please consult the factory or your local Eaton distributor.

Efficiency of retention

<table>
<thead>
<tr>
<th></th>
<th>Beta ratio 1000 99.90%</th>
<th>Beta ratio 100 99%</th>
<th>Beta ratio 10 90%</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 μm</td>
<td>1</td>
<td>0.6</td>
<td>0.2</td>
</tr>
<tr>
<td>2.5 μm</td>
<td>3</td>
<td>2</td>
<td>1.5</td>
</tr>
<tr>
<td>4.5 μm</td>
<td>5</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>10 μm</td>
<td>10</td>
<td>8.5</td>
<td>6.5</td>
</tr>
<tr>
<td>20 μm</td>
<td>22</td>
<td>19</td>
<td>14</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

Filter type: LPHF: LOFPLEAT HF

Filter material
- G: Micro fiberglass

Nominal lengths
- 20: 20”
- 40: 40”
- 60: 60”

Gaskets or O-rings
- E: EPDM
- S: Silicone
- B: Buna-N
- V: FPM

Hardware material
- P: Polypropylene
- A: Polyacetal caps/ polyester cage

Retention ratings
- 1 μm
- 2.5 μm
- 4.5 μm
- 10 μm
- 20 μm

Request a Quote Today!

COMMERCIAL FILTRATION SUPPLY
Authorized Eaton Filtration Distributor & Representative
For pricing and information please call
Commercial Filtration Supply at (855)-236-0467
Visit us Online at: www.commercialfiltrationsupply.com
for more filtration products.