

## 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 500 GPM (1893 l/min) in a single 60" length
- Can be retrofitted in most competitive high-flow housings
- Thermally bonded construction

### Specifications

**Filter material**  
Micro fiberglass

**Cage**  
Polyester or polypropylene

**End caps**  
Polyacetal or polypropylene

**Gaskets/O-rings**  
EPDM (standard),  
FKM

**Retention ratings**  
1, 2.5, 4.5, 10, 20 µm  
@ 99.9% efficiency

### Technical data

**Nominal lengths**  
20", 40", 60" (508, 1016, 1524 mm)

**Outside diameter**  
6" (152 mm)

**Surface area**  
25.8 ft<sup>2</sup> (2.4 m<sup>2</sup>) per 20" element

**Max. operating temperatures**  
Polyacetal: 230 °F (110 °C)  
Polypropylene: 176 °F (80 °C)

**Max. differential pressures**  
Polyacetal:  
75 psid @ 70 °F (5.2 bar @ 21 °C)  
50 psid @ 230 °F (3.5 bar @ 110 °C)  
Polypropylene:  
50 psid @ 77 °F (3.5 bar @ 25 °C)  
20 psid @ 176 °F (1.4 bar @ 80 °C)

**Recommended differential change-out pressure for disposal**  
35 psid (2.4 bar)

**Max. flow rates**  
20" element: 175 USGPM ( 662 l/min)  
40" element: 350 USGPM (1325 l/min)  
60" element: 500 USGPM (1890 l/min)



Powering Business Worldwide

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## Efficiency of retention

| Beta ratio efficiency of retention | Beta 1000<br>99.90% | Beta 100<br>99% | Beta 10<br>90% |
|------------------------------------|---------------------|-----------------|----------------|
| 1 µm                               | 1                   | 0.6             | 0.2            |
| 2.5 µm                             | 3                   | 2               | 1.5            |
| 4.5 µm                             | 5                   | 4               | 3              |
| 10 µm                              | 10                  | 8.5             | 6.5            |
| 20 µm                              | 22                  | 19              | 14             |

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

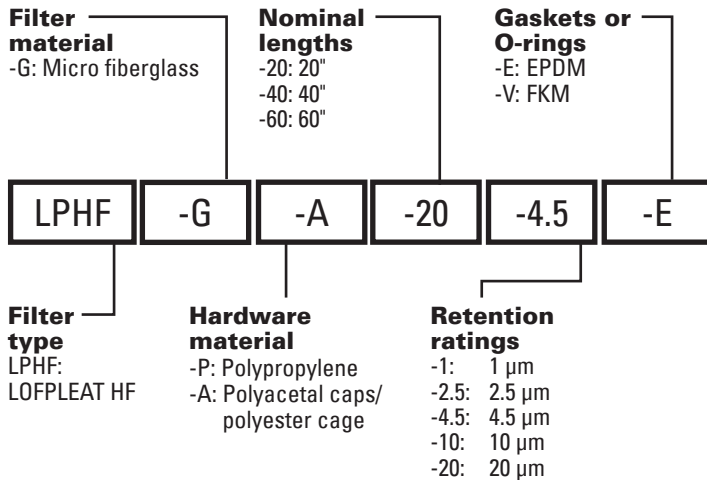
The micron ratings shown at various efficiency and beta ratio value levels were determined through laboratory testing, and can be used as a guide for selecting cartridges and estimating their performance. Under actual field conditions, results may vary somewhat from the values shown due to the variability of filtration parameters.

## Element pressure drop

|     | mbar/m <sup>3</sup> /h |        |        | psid/gpm |        |        |
|-----|------------------------|--------|--------|----------|--------|--------|
|     | 20"                    | 40"    | 60"    | 20"      | 40"    | 60"    |
| 1   | 11.9419                | 5.9709 | 3.9806 | 0.0394   | 0.0197 | 0.0131 |
| 2.5 | 5.5385                 | 2.7692 | 1.8462 | 0.0183   | 0.0091 | 0.0061 |
| 4.5 | 4.3549                 | 2.1775 | 1.4516 | 0.0144   | 0.0072 | 0.0048 |
| 10  | 2.8830                 | 1.4415 | 0.9610 | 0.0095   | 0.0048 | 0.0032 |
| 20  | 2.0940                 | 1.0470 | 0.6980 | 0.0069   | 0.0035 | 0.0028 |

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

## Ordering code



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