



High Temperature Micro Fiberglass Filter Cartridges

"The LOFPLEAT-HT filter cartridges from Eaton are a popular choice in a variety of applications, including petrochemicals, solvents, boiler water, lube oil, chemicals, inks and oil & gas."

This disposable, versatile high temperature filter cartridge with a high efficiency borosilicate micro fiberglass media construction offers a greater surface area and high system flow rate.

Features and Benefits

- High temperature filtration capability of 110°C (230°F)
- Consistent pore size for high efficiency removal of debris
- Polyester hardware offers increased range over those of standard polypropylene
- High surface area for increased flow and dirt holding capacity
- Long service life provides low cost change-out benefits

- Maximum differential pressure dirt unloading eliminated by fixed pore construction
- Broad application range with micron retentions from 0.2 µm to 30 µm

Filter Specifications

Media

Borosilicate micro fiberglass with acrylic binder

End caps

Polyester

Inner core

Polyester

Gaskets / O-Rings

Buna-N, EPDM, Silicone, FEP encapsulated Viton® O-Rings

Cage

Polyester

Support layers

Polyester

Micron ratings

0.2; 0.45; 1; 3; 10; 30 µm

Dimensions / Parameters

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

0.47 m² (5.1 ft²) per 10 inch element

Max. operating temp.

110°C (230°F)

Max. differential pressure

5.2 bar @ 21°C (75 psid @ 70°F)
4.1 bar @ 93°C (60 psid @ 200°F)
3.4 bar @ 110°C (50 psid @ 230°F)

Recommended change-out pressure for disposal

2.4 bar (35 psid)



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Filter Removal Efficiency

Beta Ratio Efficiency	Beta 10 90%	Beta 20 95%	Beta 100 99%	Beta 1000 99,9%	Beta 5000 99,98%
0.2 µm	0.2	0.3	0.6	0.8	1
0.45 µm	0.45	0.6	0.8	1.8	2
1 µm	1	1.3	2	3.5	4
3 µm	3	4	5.5	9	10
10 µm	10	12	15	17	18
30 µm	30	35	38	42	45



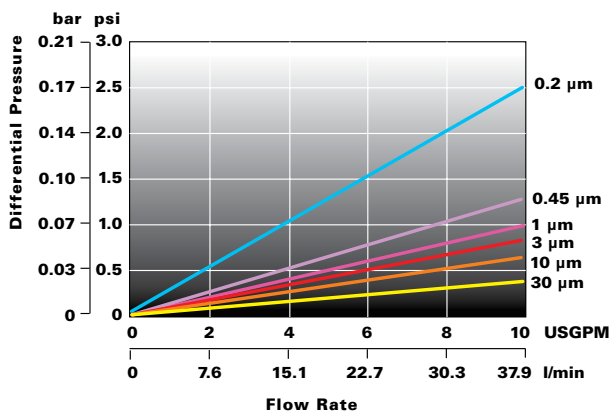
The LOFPLEAT-HT filter is available with a variety of gasket, O-ring and end cap configurations.

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

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. Testing was conducted using the single-pass test method, water at 2.5 gpm/10" cartridge. Contaminants included latex beads, coarse and fine test dust. Removal efficiencies were determined using dual laser source particle counters.

LOFPLEAT-HT Flow Rate*

(70°F/21°C per 10" cartridge)



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

Filter Specification Code

Nominal Length

-5 5"
-9 9.75"
-10 10"
-20 20"
-30 30"
-40 40"

Gasket or O-Ring

S Silicone
B Buna-N
E EPDM
V Viton
T FEP/Viton (O-Rings only)

LPHT -10 -3 -3 B

Retention Rating

-0.2 µm
-0.45 µm
-1 µm
-3 µm
-10 µm
-30 µm

Filter Series
LOFPLEAT-HT

End Configuration

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
-10 Double Open End, Internal O-Rings
-20 Single Open End, Internal O-Ring

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