LOFPLEAT™ HT high temperature micro fiberglass filter cartridges

Eaton's LOFPLEAT HT filter cartridges are a popular choice in a variety of applications, including petrochemicals, solvents, boiler water, lube oil, chemicals, inks and oil and gas.

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

Features and benefits

- High temperature filtration capability of up tp 110 °C
- 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 retention ratings from 0.2 to 30 µm

Design

Filter material
Borosilicate micro fiberglass with acrylic binder

Inner core, cage, end caps
Polyester

Gaskets/O-rings
Silicone (standard), Buna-N, EPDM, FEP encapsulated FPM O-rings

Support layers
Polyester

Retention ratings
0.2, 0.45, 1, 3, 10, 30 µm @ 90% 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
0.47 m² per 10" element

Max. operating temperature
110 °C

Max. differential pressures
5.2 bar @ 21 °C
4.1 bar @ 93 °C
3.4 bar @ 110 °C

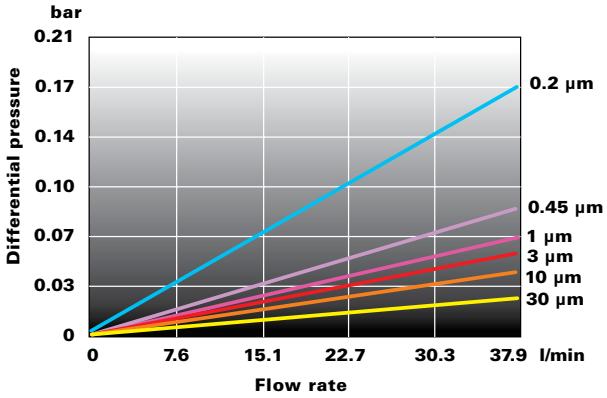
Recommended differential change-out pressure for disposal
2.4 bar

Powering Business Worldwide

LOFPLEAT HT high temperature micro fibrglass 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

Beta ratio efficiency of retention	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

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

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 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/FPM
(O-rings only)

LPHT	-10	-3	-3	B

Filter type
LPHT:
LOFPLEAT HT

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

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
-10: Double open end, internal O-rings
-20: Single open end, internal O-ring

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

EN
EF-LPHT
10-2016

Contact your **authorized Eaton distributor** today:
Commercial Industrial Supply
1444 East Main Street
Rock Hill, SC 29730 USA
Tel: (866) 777-8001
Email: info@emailcis.com

Powering Business Worldwide

QUALITY SYSTEM CERTIFICATION DNV·GL ISO 9001