



LOFPLEAT™ HP

high performance filter cartridges

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
0.65 m² per 10" element

Max. operating temperature
80 °C

Max. differential pressures
5.2 bar @ 21 °C
2.8 bar @ 80 °C

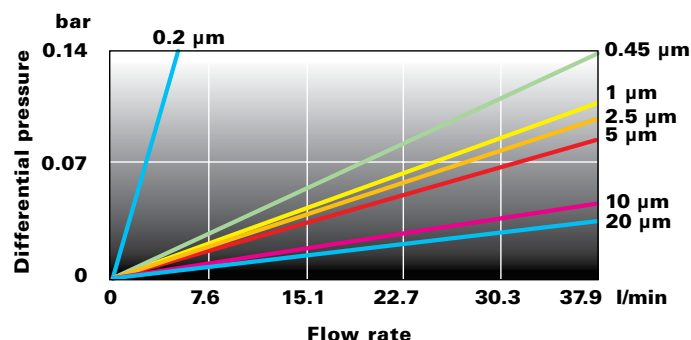
Recommended differential change-out pressure for disposal
2.4 bar



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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

Beta ratio retention of efficiency	Beta 5000 99.98%	Beta 100 99%	Beta 50 98%
0.2 µm	0.2	0.1	0.05
0.45 µm	0.45	0.3	0.2
1 µm	1	0.6	0.3
2.5 µm	2.5	2	1.5
5 µm	5	4	3
10 µm	10	8	7
20 µm	20	17	15

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

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 encapsulated (O-rings only)

Pre-rinse option

- R: Factory pre-rinse

Filter type

LPHP: LOFPLEAT HP

Retention ratings

- 0.2 µm
- 0.45 µm
- 1 µm
- 2.5 µm
- 5 µm
- 10 µm
- 20 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
- 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

Insert

- I: End cap insert for steaming

Example ordering code: LPHP-20-1-4-V-R-I



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

EN
EF-LPHP
10-2016

Contact your authorized Eaton distributor today:

Commercial Industrial Supply

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