



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

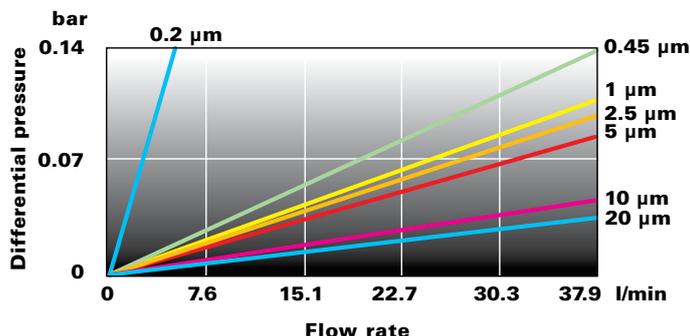
2.4 bar



Powering Business Worldwide

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Flow rate* (21 °C per 10" filter cartridge)



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

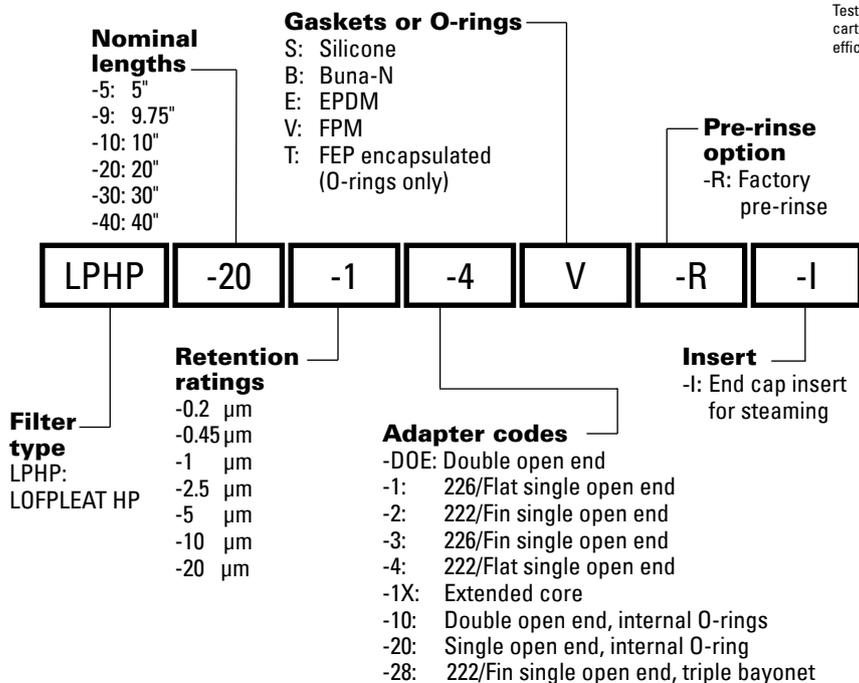
Efficiency of retention

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



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

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