



Absolute Rated High Performance Pleated Polypropylene Filter Cartridge

"LOFPLEAT-HP filters by Eaton are perfect for a wide range of process applications including food & beverage, aqueous solutions, chemicals, bottled water, pharmaceutical, cosmetics, process water, RO prefilters and ink."

This high efficiency, high performance filter is constructed with a large surface area, melt blown polypropylene media 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
- Acceptable for food and beverage applications
- Meets USP Class VI biological tests for plastics
- Beta rating of 5000, 99.98% efficiency
- High flow and long life for minimum maintenance

- Eliminates dirt unloading at high differential pressure due to fixed pore structure
- Heavy-duty molded cage for high structural strength

Dimensions / Parameters

Nominal lengths

9.75", 10", 20", 30", 40"
(24.7, 25.4, 50.8, 76.2, 101.6 cm)

Outside diameter
2.7" (6.9cm)

Inside diameter
1.0" (2.54 cm)

Surface area
Up to 7 ft². (0.65 m²) per 10 inch element

Max. operating temp.
176°F (80°C)

Max. differential pressure
75 psid @ 70°F (5.2 bar @ 21°C)
40 psid @ 176°F (2.8 bar @ 80°C)
15 psid @ 190°F (1.03 bar @ 88°C)

Filter Specifications

Construction material
Polypropylene

Gaskets/O-Rings

Buna-N, EPDM, Silicone, Viton®, Teflon® encapsulated Viton (O-Rings only)

Micron ratings

0.2, 0.45, 1, 2.5, 5, 10, 20 µm

FDA & USP compliance

All polypropylene material used in manufacturing complies with the regulations of the Food and Drug Administration (FDA) title 21 of the Code of Federal Regulations Sections 174.5, 177.1520, and 177.1630, as applicable for food and beverage contact.

View Eaton's complete line of quality filtration products at www.filtration.eaton.com.



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Filter Removal Efficiency

Beta Ratio Efficiency	Beta 5000 99.98%	Beta 100 99%	Beta 50 98%
0.2 micron	0.20	0.10	0.05
0.45 micron	0.45	0.30	0.20
1.0 micron	1.0	0.60	0.30
2.5 microns	2.5	2.0	1.5
5.0 microns	5.0	4.0	3.0
10.0 microns	10.0	8.0	7.0
20.0 microns	20.0	17.0	15.0

Beta Ratio =

Upstream particle counts
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.

Performance Specifications

Sanitization

Hot water at 176°F (80°C) at 5 psid (.35 bar) for 30 min.

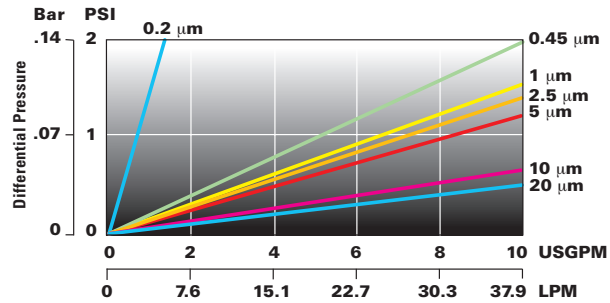
In-line steam at 257°F (125°C) at 1 psid (.07 bar) for 30 min.

Autoclavable at 257°F (125°C) for 30 min.



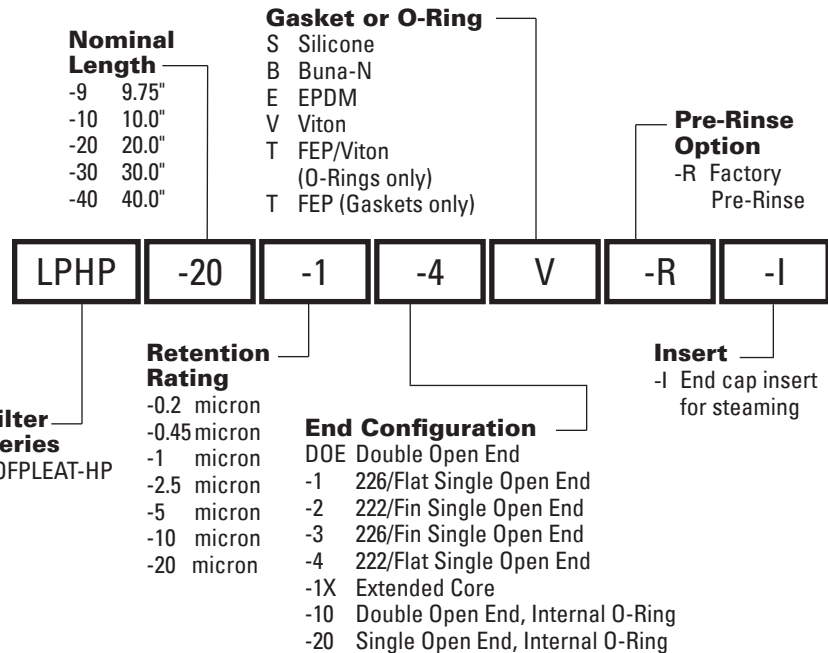
The LOPLEAT-HP filter is available with a variety of gasket, O-ring and end cap configurations.

LOFPLEAT-HP 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



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