



Economically Efficient Pleated Filter Cartridges

“LOFPLEAT-EE from Eaton is an all-polypropylene filter cartridge with an economically efficient design suitable for a wide range of process applications.”

This disposable filter element can be used for a wide range of applications. The pleated polypropylene filter media provides a large filtration surface area which allows for maximized flow rate in the system.

Features and Benefits

- Filtration efficiency of 90%
- Retention rates from 0.2 to 50 µm
- Meets USP Class VI biological tests for plastics
- Available in lengths up to 40 inches
- Pore structure design resists dirt unloading
- Polypropylene construction and multiple gasket/O-Ring options for broad application range

Filter Specifications

Media

Polypropylene

Inner core

Polypropylene

End caps

Polypropylene

Cage

Polypropylene

Gaskets/O-Rings options

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

Micron ratings

0.2, 0.25, 0.45, 0.5, 1, 2, 5, 10, 25, 50 µm

Dimensions / Parameters

Nominal lengths

5", 9.75", 10", 20", 30", 40"
(12.7, 24.8, 25.4, 50.8, 76.2, 101.6 cm)

Outside diameter

2.7" (6.9 cm)

Inside diameter

1.1" (2.79 cm)

Surface area

0.47 m² (5.1 ft²) 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)

Recommended differential pressure for change-out

35 psid (2.4 bar)

FDA compliance

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



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Filter Removal Efficiency		
Beta Ratio Efficiency	Beta 50 98%	Beta 10 90%
0.2 µm	0.28	0.2
0.25 µm	0.35	0.25
0.45 µm	0.6	0.45
0.5 µm	0.7	0.5
1 µm	1.5	1
2 µm	2.7	2
5 µm	7	5
10 µm	12	10
25 µm	32	25
50 µm	70	50

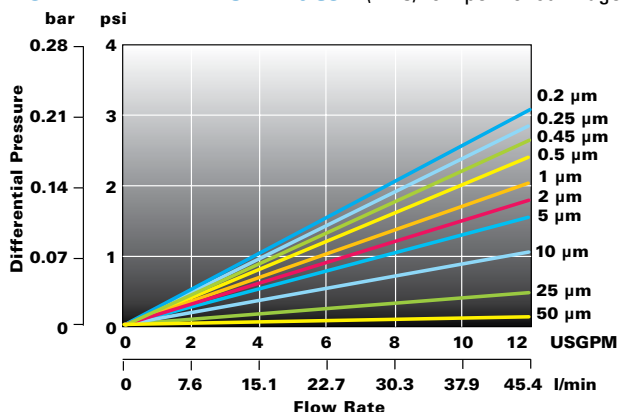


The LOFPLEAT-EE filter cartridge is available with a variety of gasket, O-ring and end cap configurations.

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

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-EE Flow Rate* (21°C/70°F per 10" cartridge)



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

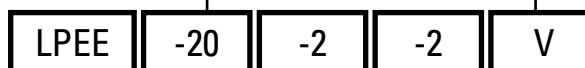
Filter Specification Code

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)
- T FEP (gasket only)



Filter Series
LOFPLEAT-EE

Retention Rating

- 0.2 µm
- 0.25 µm
- 0.45 µm
- 0.5 µm
- 1 µm
- 2 µm
- 5 µm
- 10 µm
- 25 µm
- 50 µm

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-Ring
- 20 Single Open End, Internal O-Ring
- 28 222/Fin Single Open End, Triple Bayonet

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