



LOFPLEAT™ EE economically efficient pleated filter cartridge

Eaton's LOFPLEAT EE all-polypropylene filter cartridges with an economically efficient design are 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 material provides a large filtration surface area which allows for maximized flow rate in the system.

Features and benefits

- Filtration efficiency of 90%
- Retention ratings from 0.2 to 50 µm
- Available in lengths up to 40"
- Pore structure design resists dirt unloading
- Polypropylene construction and multiple gasket/O-ring options for broad application range

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, 0.25, 0.45, 0.5, 1, 2, 5, 10, 25, 50 µm @ 90% efficiency

Technical data

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 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

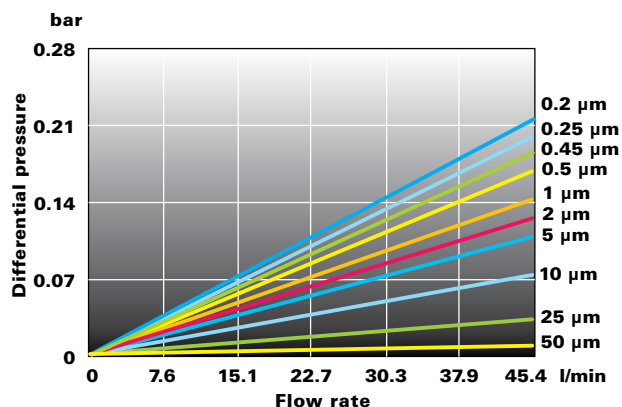
2.4 bar



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 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

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

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"

Gasket or O-ring

- S: Silicone
- B: Buna-N
- E: EPDM
- V: FPM
- T: FEP encapsulated (O-Rings only)

Filter type

- LPEE: LOFPLEAT EE

Retention ratings

- 0.2 µm
- 0.25 µm
- 0.45 µm
- 0.5 µm
- 1 µm
- 2 µm
- 5 µm
- 10 µm
- 25 µm
- 50 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-ring
- 20: Single open end, internal O-ring
- 28: 222/Fin single open end, triple bayonet

Example Ordering Code: LPEE -20 -2 -2 V



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