

LOFPLEAT™ AG

absolute rated pleated filter cartridges

Eaton's LOFPLEAT AG absolute rated filter cartridges are suitable for a wide range of critical process applications.

Get absolute efficiency with this cost-effective all-polypropylene cartridge. The pleated design provides a large surface area for long-lasting filtration efficiency.

Features and benefits

- Fits broad application range with 0.2 to 100 µm retention rating
- Beta rating of 5000, 99.98% efficiency
- High flow and long service life for minimum maintenance
- Available in continuous lengths up to 40 inches
- Eliminates dirt unloading at high differential pressures due to fixed pore structure

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, 25, 50, 100 µm @ 99.98% 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

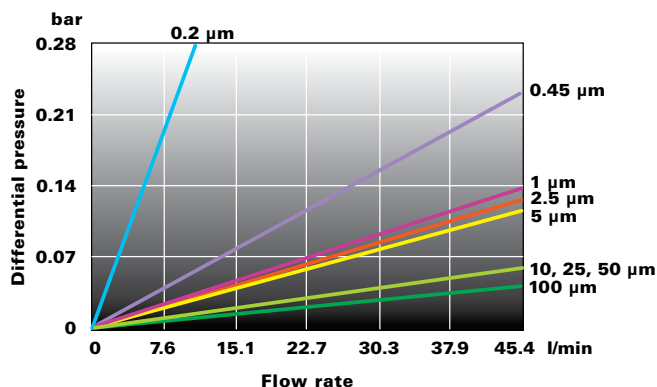
Recommended differential change-out pressure for disposal
2.4 bar



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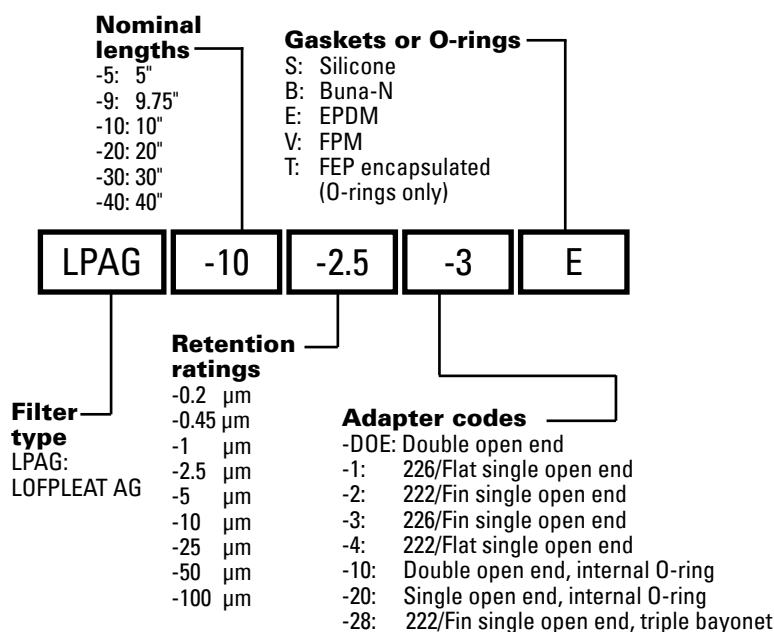
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Flow rate* (21 °C per 10" filter cartridge)



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

Ordering code



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
25 µm	25	19	15
50 µm	45	35	28
100 µm	—	100	85

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

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.



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

Contact your authorized Eaton distributor today:

Commercial Industrial Supply

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Rock Hill, SC 29730 USA

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