



LOFPLEAT™ GG

micro fiberglass filter cartridges

Eaton's LOFPLEAT GG filter cartridges are suitable for the filtration of magnetic tape coatings and as a blowdown post filter. They are also widely used in the chemical, ink, and oil and gas industries.

The pleated borosilicate micro fiberglass filter cartridges are disposable, highly efficient and can be effectively used in a variety of industrial applications. They offer a high surface area for high flow rates.

Features and benefits

- High-efficiency cartridge offering standardized pore size
- A broad range of applications, featuring micron ratings from 0.2 to 30 µm
- High dirt-holding and flow capability with increased surface area
- Reduced labor costs due to less change-outs
- Fixed pore structure prevents dirt unloading even at maximum differential pressure

Design

Filter material

Borosilicate micro fiberglass with acrylic binder

Inner core, cage, end caps

Polypropylene

Gaskets/O-rings

Silicone (standard), Buna-N, EPDM, FPM, FEP encapsulated O-Rings

Support layers

Polyester

Retention ratings

0.2, 0.45, 1, 3, 10, 30 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" (2.54 cm)

Surface area

0.47 m² per 10" element

Max. operating temperature

80 °C

Max. differential pressure

5.5 bar @ 21 °C
2.8 bar @ 65 °C

Recommended differential change-out pressure for disposal

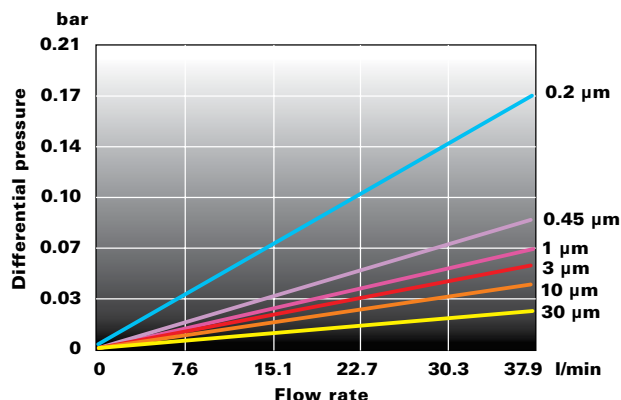
2.4 bar



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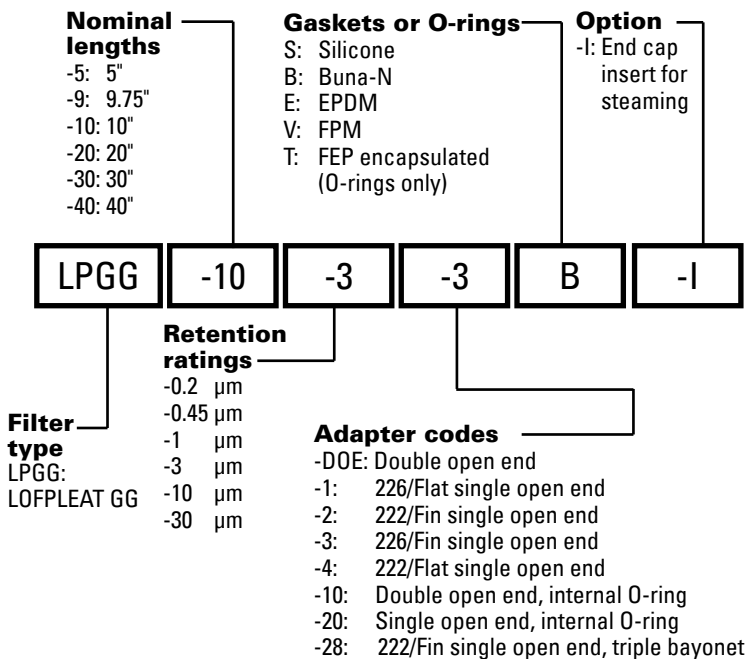
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Flow rate* (21 °C per 10" filter cartridge)



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

Ordering code



Efficiency of retention

Beta ratio efficiency of retention	Beta 10 90%	Beta 20 95%	Beta 100 99%	Beta 1000 99.9%	Beta 5000 99.98%
0.2 µm	0.2	0.3	0.6	0.8	1
0.45 µm	0.45	0.6	0.8	1.8	2
1 µm	1	1.3	2	3.5	4
3 µm	3	4	5.5	9	10
10 µm	10	12	15	17	18
30 µm	30	35	38	42	45

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

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