Eaton’s LOFMET filter cartridges are designed for a variety of applications including corrosive liquids and gases, cryogenic fluids, high viscosity solutions, process steam, high temperature liquids and gases and catalyst recovery.

Porous titanium or stainless steel 316 filter cartridges are designed for applications involving extreme operating conditions and aggressive fluids and gases. The rugged, fixed pore structure is constructed from sintered titanium powder. The result is a filter element that can withstand heat, high pressures and repeated cleaning/backwash cycles. Mechanical strength and corrosion resistance are the results of a seamless design.

Features and benefits
- High corrosion resistance
- All sintered titanium or stainless steel 316 construction
- Backwashable for reuse and maximum economy
- Multiple end configurations and gasket/o-rings to fit most filter housings

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
2.36" (60 mm); 2.48" (63 mm)

Max. operating temperature
700°F (371°C)*

Max. differential pressures
250 psid (17.4 bar) forward
50 psid (3.5 bar) reverse

* Max. temperature applicable to NPT style filters only (no O-rings or gaskets). Consult Eaton for guidance on specific chemical/temperature compatibility.

Design

Filter materials
Titanium or stainless steel 316

End caps
Titanium or stainless steel 316

Gaskets/O-rings
EPDM, Buna-N, silicone, FPM, FEP encapsulated (O-Rings only), PTFE (gasket only)

Retention ratings
0.5, 1, 5, 10, 15, 35, 50, 100 μm @ 99.5% efficiency
LOFMET filter cartridges

**Flow rate**
(70°F/21°C per 10' filter cartridge for water)

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

**Efficiency of retention**

<table>
<thead>
<tr>
<th>Beta ratio retention of efficiency</th>
<th>Beta 200</th>
<th>Beta 20</th>
<th>Beta 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5 μm</td>
<td>0.5</td>
<td>0.3</td>
<td>0.1</td>
</tr>
<tr>
<td>1 μm</td>
<td>1</td>
<td>0.8</td>
<td>0.4</td>
</tr>
<tr>
<td>5 μm</td>
<td>5</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>10 μm</td>
<td>10</td>
<td>8</td>
<td>5</td>
</tr>
<tr>
<td>15 μm</td>
<td>15</td>
<td>12</td>
<td>10</td>
</tr>
<tr>
<td>35 μm</td>
<td>35</td>
<td>32</td>
<td>28</td>
</tr>
</tbody>
</table>

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 3 gpm/10” cartridge (9.45 l/min). Contaminants included latex beads, coarse and fine test dust. Removal efficiencies were determined using dual laser source particle counters.

**Ordering code**

**Filter type**
LM: LOFMET

**Nominal lengths**
-5: 5”
-9: 9.75”
-10: 10”
-20: 20”
-30: 30”
-40: 40”

**Filter materials**
S: Stainless steel 316
Ti: Titanium

**Gaskets or O-rings**
S: Silicone
B: Buna-N
E: EPDM
V: FPM
T: FEP encapsulated (O-rings only)
T: PTFE (gaskets only)

**Retention ratings**
-0.5 μm
-1 μm
-5 μm
-10 μm
-15 μm
-35 μm
-50 μm
-100 μm

**Adapter codes**
-DOE: Double open end
-1: 226/Flat single open end
-4: 222/Flat single open end
-M1: 3/4” Male NPT threads
-M2: 1” Male NPT threads

**Flow rate**

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

**Request a Quote Today!**

For pricing and information please call
Commercial Filtration Supply at (855)-236-0467

Visit us Online at: [www.commercialfiltration.com](http://www.commercialfiltration.com) for more filtration products.