Rigid Resin Bonded Filters

LOFCLEAN™ Series acrylic fiber/phenolic resin filters have an extremely rigid pore structure which allows the filter to withstand extremes of viscosity and temperature without compression or collapse. The true-graded density design traps coarse particles in the outer zones while finer particles are captured near the core.

Features and Benefits
- Retentions from 1 to 100 microns
- Enhanced surface area for longer life
- No metal or plastic core
- Phenolic resin/acrylic fiber construction resists dirt unloading at high differential pressure
- Optional end cap configuration for compatibility with most vessels

Filter Specifications

<table>
<thead>
<tr>
<th>Media</th>
<th>Acrylic Fiber/Phenolic Resin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optional End Caps</td>
<td>Polyester</td>
</tr>
<tr>
<td>Multi-length bonding agent</td>
<td>Polyamide Hot Melt</td>
</tr>
<tr>
<td>Gasket/O-Rings</td>
<td>Silicone, EPDM, Buna N, Viton® and Teflon® encapsulated Viton (O-rings only)</td>
</tr>
</tbody>
</table>

Dimensions / Parameters

Nominal lengths
- 9.75”, 10”, 19.5”, 20”, 29.25”, 30”, 39”, 40” (24.8, 25.4, 49.5, 50.8, 74.3, 76.2, 99.1, 101.6 cm)

Outside diameter
- 2.45” (6.22 cm)

Inside diameter
- 15/16” (2.38 cm)

Max. operating temp.
- 252°F (122°C) for 9.75” length in liquids
- 212°F (100°C) for lengths longer than 9.75” in liquids
- 176°F (80°C) in gas

Differential pressure
- 70 psid @ 70°F (4.8 bar)

Recommended change-out pressure for disposal
- 35 psid (2.4 bar)

“Eaton’s LOFCLEAN filters are ideally suited for paints, inks, sealants, adhesives, lacquers, varnishes, shellacs, fuel oils, crude oils, grease, machine coolants, silicones, antifreeze, plasticizers, animal oils and many other applications.”
Flow Rate Nomograph

To determine the flow rate and pressure drop for a specific application, first determine your required flow rate per single length cartridge, then refer to the nomograph on the right and proceed as follows:

1. Select the required micron grade from the “RATING” line.
2. Using a straightedge, draw a line from the grade mark, through the desired “DIFFERENTIAL PRESSURE”, to the “INDEX” line.
3. Choose the viscosity of the fluid to be filtered on the “VISCOSITY” line.
4. Using a straightedge, draw a line from the viscosity mark, intersecting the mark made previously on the “INDEX” line, to the “FLOW RATE” line. Ensure the resulting flow rate does not exceed that set out in the table on the nomograph.
5. Repeat the exercise at various differential pressures, to achieve an acceptable combination of flow rate and differential pressure to meet your specific requirement.

Note: For chemical compatibility, flow rates, and temperature requirements please consult the factory or your local Eaton distributor.

Filter Specification Code

Filter Series
LOFCLEAN

Acrylic Fibres
-A

Retention Rating
-1 micron
-3 micron
-5 micron
-10 micron
-25 micron
-50 micron
-75 micron
-100 micron

Nominal Length
-9 9.75"
-10 10.0"
-19 19.5"
-20 20.0"
-29 29.25"
-30 30.0"
-39 39.0"
-40 40.0"

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
-N None

Gasket or O-Ring
S Silicone
B Buna-N
E EPDM
V Viton
T FEP/Viton
(O-Rings only)
N None

Conversion Table
1 L/min = .264 GPM
1 kPa = .145 psi
1 bar = 100 kPa