Fluorodyne® VA and Fluorodyne® TF Filters

Description
Fluorodyne VA filters and Fluorodyne TF filters are specifically designed to provide rapid bath clean up in recirculating nickel plating baths. They are also ideally suited for use in recirculated cleaning baths of DI water and alkaline soaps.

Rated at 0.2 µm and 0.1 µm, Fluorodyne VA and TF filters offer spontaneous wettability, fast bath turnover rates and excellent bath clean up characteristics:
- Spontaneously wets in Ni plating and DI water/alkaline soap mixtures
- Very high flow rates
- Low differential pressure
- Low extractables
- Manufactured in a cleanroom environment

Specifications
Materials
- Medium: Hydrophilic PVDF
- Core, cage, and end caps: Polypropylene
- Support and drainage: Polypropylene
- O-ring options: Teflon\(^1\) encapsulated Viton\(^1\), Viton and EPR

Removal Ratings
- 0.1 µm, and 0.2 µm in recirculation mode

Filter Areas
- AB1 Style
  - Fluorodyne VA: 0.86 m\(^2\) / 9.25 ft\(^2\)
  - Fluorodyne TF: 1.25 m\(^2\) / 13.5 ft\(^2\)

Configurations
- AB1 Style
  - Nominal length: 254 mm / 10 in
  - Diameter: 70 mm / 2.75 in
- O-ring size/end caps:
  - Code 3: 222 double O-ring/flat end
  - Code 7: 226 double O-ring locking tab/finned end
- Diameter: 70 mm / 2.75 in

Operating Conditions
- Maximum operating temperature: 95°C / 203°F
- Maximum forward differential pressure:
  - Fluorodyne VA: 0.48 MPa @ 82°C / 70 psid @ 180°F
  - Fluorodyne TF: 0.31 MPa @ 93°C / 45 psid @ 200°F

Recommended Applications
- Recirculating nickel plating
- Recirculating water/alkaline soaps

\(^1\) Viton and Teflon are registered trademarks of E. I. du Pont de Nemours and Company.
Part Numbers / Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Removal Rating (um)</th>
<th>Nominal Length (mm / in)</th>
<th>Configuration Code</th>
<th>O-Ring Material⁴</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB1VA3H1</td>
<td>0.2</td>
<td>254 / 10</td>
<td>3</td>
<td>Teflon encapsulated Viton</td>
</tr>
<tr>
<td>AB1VA3J</td>
<td>0.2</td>
<td>254 / 10</td>
<td>3</td>
<td>EPR</td>
</tr>
<tr>
<td>AB1VA3HF³</td>
<td>0.2</td>
<td>254 / 10</td>
<td>3</td>
<td>Viton</td>
</tr>
<tr>
<td>AB1VA7H1</td>
<td>0.2</td>
<td>254 / 10</td>
<td>7</td>
<td>Teflon encapsulated Viton</td>
</tr>
<tr>
<td>AB1UTF3H1</td>
<td>0.1</td>
<td>254 / 10</td>
<td>3</td>
<td>Teflon encapsulated Viton</td>
</tr>
<tr>
<td>AB1UTF3J</td>
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</tbody>
</table>

² For liquids with a viscosity differing from water, multiply the pressure drop by the viscosity in centipoise.

³ The above filter configurations are also available in 508 mm / 20 in, 762 mm / 30 in, and 1016 mm / 40 in lengths. These can be ordered by changing the fourth digit in the part number to a 2, 3 or 4, respectively.

⁴ Other O-ring materials are available.

Unit conversion: 1 MPa = 10 bar

**Pressure Drop vs. Liquid Flow Rate**

For liquids with a viscosity differing from water, multiply the pressure drop by the viscosity in centipoise.

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