Zefluor™ Elements (bottom-load) Design with GORE® Tube Filters

Description

- 16.5 mm (0.65 in) diameter GORE ePTFE tube filters mounted in head assembly
- Bottom-load CPVC head assembly design for tubular back-pulse Zefluor filters
- Outside-to-in flow traps the contaminant outside of the element
- EPDM porous hose used for internal tube support
- Typical tube length is 1905 mm (75.0 in)

Features and Benefits

- Increased filtration area – about 2.5x the filtration area for a given volume compared to the filter sock design (Zylon™)
- Use of smaller, less expensive vessels
- Fewer number of elements needed in existing vessels
- Smaller housing diameter
- Ease of installation – new filter tube consists of single piece filter media and support element, allowing quick change-outs and minimal downtime
- More durable – the Zefluor membrane is a thicker and more robust material than a membrane laminate

Performance Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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<tbody>
<tr>
<td>Continuous Operating Temperature</td>
<td>75 °C (167 °F)</td>
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<tr>
<td>Retention Efficiency</td>
<td>&gt;99 % @ 0.5 micron (typical) per ASTM F 795 test</td>
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<tr>
<td>Acid/Alkali Resistance</td>
<td>Yes</td>
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<tr>
<td>Free Chlorine Resistance</td>
<td>Up to maximum 30 ppm permanent</td>
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</tbody>
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Applications

- Chlor-Alkali market
  - Brine filtration for removal of Ca, Mg, Al, Fe, and Hg precipitates in the primary treatment prior to electrolysis
- Other liquid filtration processes

1 In fully compatible fluids which do not chemically attack, soften, swell, or adversely affect any of the components of construction.
Product Specifications

Materials of Construction:
Tubing: GORE expanded PolyTetraFluoroEthylene (ePTFE) membrane
Support material: Ethylene-Propylene Diene Monomer (EPDM)
Head assembly: Chlorinated Polyvinyl Chloride (CPVC)
Head assembly screws: Titanium

Dimensions membrane tube (nominal):
Inner diameter: 16.5 mm (0.65 in)
Membrane thickness: 0.55 mm (0.02 in)