MQ MAX (PES 50,000Da)
Sanitary UF High pH/Temp Membrane

MAX SANITARY ELEMENT OPERATING SPECIFICATIONS

<table>
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<tr>
<th>Pressure</th>
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<tr>
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<td>Max. Differential Pressure per Element</td>
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<td>Max. Permeate Backpressure</td>
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NOTE: Soft start on boost pumps required to minimize pressure/flow shocks to elements.

Temperature

<table>
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<tr>
<th>Temperature</th>
<th>Fahrenheit</th>
<th>Celsius</th>
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<tr>
<td>Max. Operating</td>
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<td>Max. CIP Temperature</td>
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pH Parameters

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<tr>
<td>Cleaning</td>
<td>At Max Temp. - 2-11</td>
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<tr>
<td>Operating Parameters</td>
<td>At Ambient Temp. - 2-10.5</td>
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Chlorine

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<td>Chlorine during CIP at:</td>
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<tr>
<td>pH 10.8-11.0 and 50°C (PES/PVDF)</td>
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<td>180</td>
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<tr>
<td>pH 10.5 and 50°C (PAN)</td>
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NOTE: Maximum chlorine exposure for all elements is 30 minutes per day at pH and temperature conditions listed above.

MAX SERIES BENEFITS

- Conforms to 3-A, FDA, and USDA sanitary standards
- Hot sanitization eliminates chlorine during CIP
- High resistance to pH and temperature
- High resistance to fouling
- Customizable dimensions for unique housings

Dairy Product Total Solids Limits

<table>
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<tr>
<th>Products</th>
<th>Spacer (in mils)</th>
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<tr>
<td>Sweet Whey Max. T.S.</td>
<td>15 25 28 30</td>
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<tr>
<td>Acid Whey Max. T.S.</td>
<td>15 24 26 28</td>
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<tr>
<td>Skim Milk Max. T.S.</td>
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<tr>
<td>Whole Milk Max. T.S.</td>
<td>15 30 33 35</td>
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NOTE: Trials should be made to determine temperature and viscosity effects. Ribbed spacers are also available for high solids applications.

CONTACT US

4941 Allison Parkway
Vacaville, CA 95688
Phone: +1-707-451-6060
Fax: +1-707-451-6064
Email: sales@synderfiltration.com | support@synderfiltration.com
www.synderfiltration.com

All inquiries will be responded to by a Synder employee personally within 24 hours.
### ELEMENT DIMENSIONS

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*1" permeate tube extensions (0.75" OD)

### MEMBRANE AREA (SQ FT)

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</table>

### TECHNICAL NOTES

For element sizes not listed, please call or email Synder Filtration for details. We can design an element to fit your exact needs - just specify the element outer diameter (OD) or vessel housing inner diameter (ID), element inner diameter (ID), and length. Elements are available with or without a controlled bypass tail. Trials should be conducted to determine optimal application conditions.

### ELEMENT WEIGHT

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The recommended cross flow rate will be subject to differential pressure limitations and specific ID.

**A = Control Bypass with Tail**

**B = Control Bypass without Tail**