Membrane Element: ESPA3-4040

**Performance:**
- Permeate Flow: 3000 gpd (11.4 m³/d)
- Salt Rejection (nominal): 98.5%

**Type**
- Configuration: Spiral Wound
- Membrane Polymer: Composite Polyamide
- Nominal Membrane Area: 85 ft²

**Application Data**
- Maximum Applied Pressure: 600 psig (4.16 MPa)
- Maximum Chlorine Concentration: < 0.1 PPM
- Maximum Operating Temperature: 113 °F (45 °C)
- Feedwater pH Range: 3.0 - 10.0
- Maximum Feedwater Turbidity: 1.0 NTU
- Maximum Feedwater SDI (15 mins): 5.0
- Maximum Feed Flow: 16 GPM (3.6 m³/h)
- Minimum Ratio of Concentrate to Permeate Flow for any Element: 5:1
- Maximum Pressure Drop for Each Element: 10 psi

* The limitations shown here are for general use. The values may be more conservative for specific projects to ensure the best performance and longest life of the membrane.

**Test Conditions**
Elements are wet tested for quality assurance using the following conditions:
- 1500 PPM NaCl solution
- 150 psi (1.05 MPa) Applied Pressure
- 77 °F (25 °C) Operating Temperature
- 15% Permeate Recovery
- 6.5 - 7.0 pH Range
(Data taken after 30 minutes of operation)

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**Diagram**

![Diagram of membrane element](image)

<table>
<thead>
<tr>
<th>A, inches (mm)</th>
<th>B, inches (mm)</th>
<th>C, inches (mm)</th>
<th>Weight, lbs. (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>40.0</td>
<td>3.95</td>
<td>0.75</td>
<td>8</td>
</tr>
</tbody>
</table>

*Core tube extension = 1.05" (26.7 mm)*

**Notice:** Permeate flow for individual elements may vary ± 15 percent. All membrane elements are supplied with a brine seal, interconnector, and o-rings. Elements are enclosed in a sealed polyethylene bag containing less than 1.0% sodium meta-bisulfite solution and 10% propylene glycol, and then packaged in a cardboard box. All elements are guaranteed 98.0% minimum rejection.

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