

Membrane Element

ESPA4-4040

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|---------------------|---------------------------|------------------------------------|
| Performance: | Permeate Flow: | 2,500 gpd (9.46 m ³ /d) |
| | Salt Rejection (minimum): | 99.0 % |
| | (average): | 99.2 % |

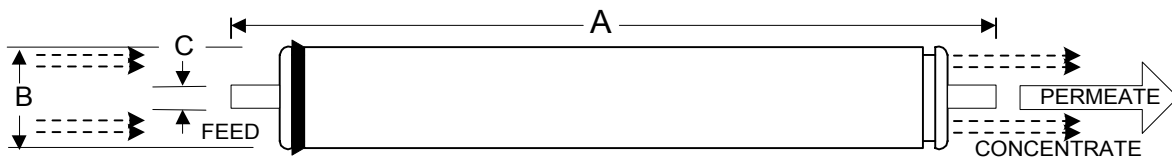
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|-------------|------------------------|---------------------|
| Type | Configuration: | Spiral Wound |
| | Membrane Polymer: | Composite Polyamide |
| | Nominal Membrane Area: | 85 ft ² |

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|--------------------------|--|--------------------------------|
| 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 m ³ /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:

500 PPM NaCl solution
100 psi (0.7 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)



| A, inches (mm) | B, inches (mm) | C, inches (mm) | Weight, lbs. (kg) |
|----------------|----------------|----------------|-------------------|
| 40.0 (1016) | 3.95 (100.3) | 0.75 (19.1) | 8 (2.3) |

Core tube extension = 1.05" (26.7 mm)

Notice: Permeate flow for individual elements may vary + or - 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.

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