



Membr:	ane Element	ESPA4
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Performance: 12,000 gpd (45.4 m<sup>3</sup>/d) Permeate Flow:

> Salt Rejection (minimum): 99.0 %

99.2 % (average):

**Type** Configuration: Spiral Wound

> Membrane Polymer: Composite Polyamide

400 ft<sup>2</sup> Nominal Membrane Area:

**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 - 10.0Maximum Feedwater Turbidity: 1.0 NTU Maximum Feedwater SDI (15 mins): 5.0

Maximum Feed Flow: 75 GPM (17.0 m<sup>3</sup>/h)

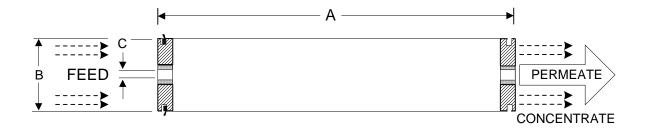
Minimum Ratio of Concentrate to Permeate Flow for any Element:

5:1 Maximum Pressure Drop for Each Element: 10 psi

## **Test Conditions**

The stated performance is initial (data taken after 30 minutes of operation), based on 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



A, inches (mm)	B, inches (mm)	C, inches (mm)	Weight, lbs. (kg)
40.0 (1016)	7.95 (201.9)	1.125 (28.6)	36 (16.4)

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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<sup>\*</sup> 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.