



	Membrane Element	ESPA2+	
Performance	Permeate Flow: Salt Rejection: Boron Rejection (Average)@ pH = 10:	12,000 gpd (45.4 m <sup>3</sup> /d) 99.6 % (99.5 % minimum) 93.0 % <sup>†</sup>	
Туре	Configuration: Membrane Polymer: Membrane Active Area:	Spiral Wound Composite Polyamide 440 ft <sup>2</sup> (40.8m <sup>2</sup> )	
Application Data*	Maximum Applied Pressure: Maximum Chlorine Concentration: Maximum Operating Temperature: pH Range, Continuous (Cleaning): Maximum Feedwater Turbidity: Maximum Feedwater SDI (15 mins): Maximum Feed Flow: Minimum Ratio of Concentrate to	600 psig (4.16 MPa) < 0.1 PPM 113 °F (45 °C) 2-10.6 (1-12)* 1.0 NTU 5.0 75 GPM (17.0 m <sup>3</sup> /h)	

<sup>\*</sup> The limitations shown here are for general use. For specific projects, operating at more conservative values may ensure the best performance and longest life of the membrane. See Hydranautics Technical Bulletins for more detail on operation limits, cleaning pH, and cleaning temperatures.

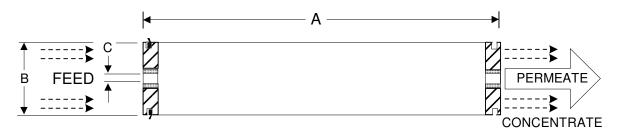
10 psi

## **Test Conditions**

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

Permeate Flow for any Element: Maximum Pressure Drop for Each Element:



A, inches (mm)	B, inches (mm)	C, inches (mm)	Weight, lbs. (kg)
40.0 (1016)	7.89 (200)	1.125 (28.6)	36 (16.4)

**Notice:** Permeate flow for individual elements may vary + or - 15 percent. Membrane active area may vary +/-4%. 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 then packaged in a cardboard box. All elements are guaranteed 99.5% minimum rejection.

Hydranautics believes the information and data contained herein to be accurate and useful. The information and data are offered in good faith, but without guarantee, as conditions and methods of use of our products are beyond our control. Hydranautics assumes no liability for results obtained or damages incurred through the application of the presented information and data. It is the user's responsibility to determine the appropriateness of Hydranautics' products for the user's specific end uses.

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