

## Membrane Element

## ESPA1-4040

<b>Performance:</b>	Permeate Flow:	2600 gpd (9.8 m <sup>3</sup> /d)
	Salt Rejection (minimum):	99.0 %

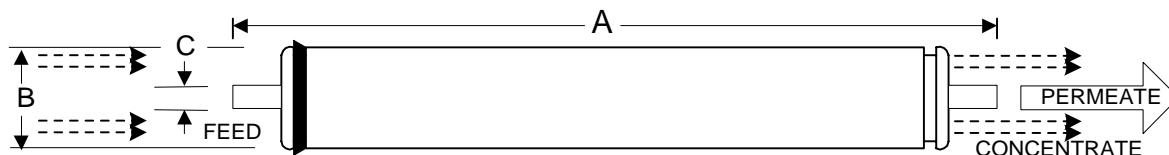
<b>Type</b>	Configuration:	Spiral Wound
	Membrane Polymer:	Composite Polyamide
	Nominal Membrane Area:	85 ft <sup>2</sup>

<b>Application Data*</b>	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 <sup>3</sup> /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)



A, inches (mm)	B, inches (mm)	C, inches (mm)	Weight, lbs. (kg)
40.0 (1016)	3.95 (100.3)	0.75 (19.1)	8 (3.6)

**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% sodium meta-bisulfite solution and 10% propylene glycol, and then packaged in a cardboard box. All elements are guaranteed 99.0% 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. 6/29/05