



## Membrane Flement

## FSPA4-I D

(Low Fouling Technology)

Performance: Permeate Flow:

Salt Rejection:

 $12.000 \text{ apd } (45.4 \text{ m}^3/\text{d})$ 99.2% (99.0% minimum)

Configuration: Membrane Polymer:

Membrane Active Area:

Feed Spacer:

Low Fouling Spiral Wound Composite Polyamide

 $400 \, \text{ft}^2 \, (37.1 \, \text{m}^2)$ 

34 mil (0.864 mm) with biostatic agent

Application Data\*

Type

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

Permeate Flow for any Element: Maximum Pressure Drop for Each Element: 600 psig (4.14 MPa) < 0.1 PPM

113 °F (45 °C) 2-10 (1-12)\* 1.0 NTU

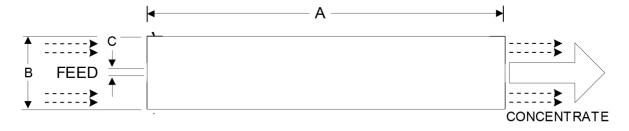
5.0 75 GPM (17.0 m<sup>3</sup>/h)

5.1 15 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)	7.89 (200)	1.125 (28.6)	33 (15)

Permeate flow for individual elements may vary + or - 15 percent. Membrane active area may vary +/-4%. Element weight may vary. 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. 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.