





Nanofiltration Membrane Element

NANO-SW

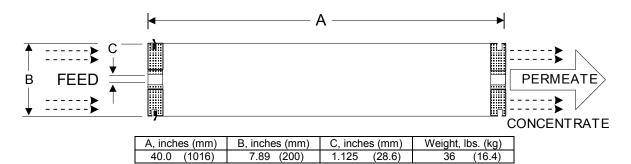
Performance	MgSO ₄ Permeate Flow (Nominal): MgSO ₄ Rejection:	11,000 gpd (41.6 m ³ /d) 99.8% (99.6% minimum)
Туре	Configuration: Membrane Polymer: Nominal Membrane Area: Feed/Brine Spacer Thickness:	Spiral Wound Composite Polyamide 400 ft ² (37 m ²) 34 mil (0.87 mm)
Application Data*	Maxium Applied Pressure (Recommended)*: Maximum Chlorine Concentration: Maximum Operating Temperature: pH Range, Operation (Cleaning): Maximum Feedwater Turbidity: Maximum Feedwater SDI (15 mins): Maximum Feed Flow: Maximum Pressure Drop for Each Element: Typical Seawater Performance†: Nominal Permeate Flow: Nominal Chloride Rejection:	600 psig (4.14 MPa) < 0.1 PPM 113 °F (45 °C) 3.0 - 9.0 (1.0 – 11.5) 1.0 NTU 5.0 75 GPM (17.0 m³/h) 15 psi 6,500 gpd (24.6 m³/d) 25%

^{*} 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

Test Conditions

The stated performance is based on the following test conditions:

2000 ppm MgSO₄ 130 psi (0.9 MPa) Applied Pressure 77 °F (25 °C) Operating Temperature 15% Permeate Recovery 6.5 – 7.0 Feed pH



Notice: Permeate flow for individual elements may vary + or - 20 percent. 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 deionixed water, and then packaged in a cardboard box.

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2/27/17

[^] Element can withstand 1,200 psig as maximum applied pressure, however, applied feed pressure exceeding 600 psig may cause reduction in membrane permeablity.

[†] Typical Synthetic Seawater Test Condition: 35,000 ppm NaCl + 8000 ppm MgSO₄ 200 psi (1.4 MPa), 77 °F (25°C), 15% Permeate Recovery, 6.5 - 7.0 feed pH.