Membrane Element

SWC4-LD
(Low Fouling Technology)

Performance:
- Permeate Flow: 6,500 gpd (24.6 m³/d)
- Salt Rejection: 99.8% (99.7% minimum)

Type
- Configuration: Spiral Wound
- Membrane Polymer: Composite Polyamide
- Membrane Active Area: 400 ft² (37.1 m²)
- Feed Spacer: 34 mil (0.864 mm)

Application Data*
- Maximum Applied Pressure: 1200 psig (8.27 MPa)
- Maximum Chlorine Concentration: < 0.1 PPM
- Maximum Operating Temperature: 113 °F (45 °C)
- pH Range, Continuous (Cleaning): 2-11 (1-13)*
- Maximum Feedwater SDI (15 mins): 5.0
- Maximum Feed Flow: 75 GPM (17.0 m³/h)
- Minimum Ratio of Concentrate to Permeate Flow for any Element: 5:1
- Maximum Pressure Drop for Each Element: 15 psi

* 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 initial (data taken after 30 minutes of operation), based on the following conditions:

- 32,000 ppm NaCl
- 800 psi (5.5 MPa) Applied Pressure
- 77 °F (25 °C) Operating Temperature
- 10% Permeate Recovery
- 6.5 - 7.0 pH Range

Notice: Permeate flow for individual elements may vary ± 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 metabisulfite solution, and then packaged in a cardboard box.

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