

# SES10-400 ULTRALOW PRESSURE AND LARGE FLUX REVERSE OSMOSIS MEMBRANE ELEMENT

## Performance Characteristics

SES10-400 is an energy-saving composite reverse osmosis membrane with extra-low energy & large flux. It is one of the membrane elements with the lowest operating pressure and maximum water yield in the world. The assembly costs of the system with the membrane is lowest. Under the same water yield, its operating pressure is 1/3 lower than that of RD series, while the advantages of high salt rejection and low total cost of water production are being maintained. It saves a large amount of energy, so the reverse osmosis system is easier to be promote and be accepted by customers.

## Membrane Specifications

### Parameters of Membrane Element

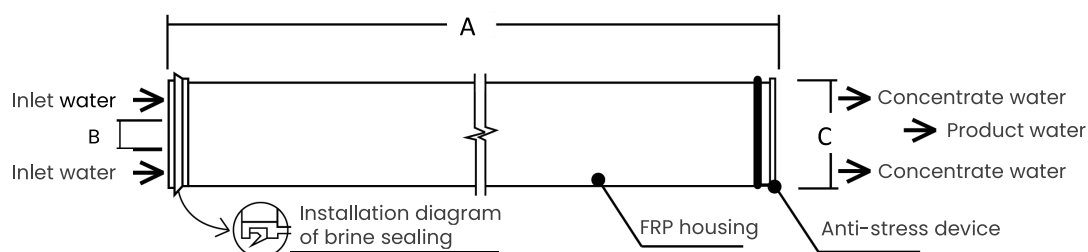
Model	Average Flow Rate gpd(m <sup>3</sup> /d)	Average Salt Rejection %	Test Conditions
SES10-400	11600 (43.7)	99.0%	1

**Notes:** Average salt rejection is tested after 24 hours operation. Fluctuation range of single membrane flow rate could be  $\pm 25\%$ .

**Test condition 1:** 500ppm NaCl solution, 100psi operating pressure, 25°C temperature, pH7, 15% recovery rate.

## Schematic Diagram and Dimensions

Figure 1



Product model	Connector	Diameter, inch (cm)			Weight (KG)
		A	B	C	
8040	Flat connector	40.00 (101.6)	1.125 (2.85)	7.9 (20.1)	16

## Operating Conditions

Product model	SES10-400
Max. operating pressure	600psi
Typical operating pressure	225psi
Pressure drop of single membrane element	<12psi
Recovery rate	15%
Max. operating temperature	50°C
Max. cleaning temperature	50°C
Continuous working PH range	4.0-11.0
Cleaning PH range	2.0-11.5
Max. allowable residual chlorine	500ppm-h
Inlet water	NTU<1, SDI<5

## Storage Conditions

- ☑ Before the first use, all membrane elements must be stored under the original packaging conditions.
- ☑ The transport temperature below 0°C may cause irreversible membrane damage, on the contrary, above 30°C may cause membrane degradation and deterioration of the protection solution.
- ☑ Store in a cool, dry condition and the place where is not directly exposed to sunlight. Storage temperature is kept between 0°C to 30°C, and the longest storage time is 6 months.

## General Information

- ☑ Once wetted, the membrane element must always be wet.
- ☑ The limited warranty we promised will expire due to the fact that the user does not strictly follow the operational restrictions and guidelines set forth in this Code.
- ☑ If the system is in a shut down state for a long time, the membrane element is advised to be placed in the protective solution to prevent the growth of microorganisms.
- ☑ If the user uses incompatible chemicals and lubricants to cause improper influence on the membrane elements, the user shall bear the corresponding responsibilities.
- ☑ The maximum allowable pressure drop of single pressure vessel is 60 psi (4.1bar).
- ☑ At no time can the back pressure be produced on the side of producing water to avoid the occurrence of bad problems.