



# Low Pressure RO Membranes



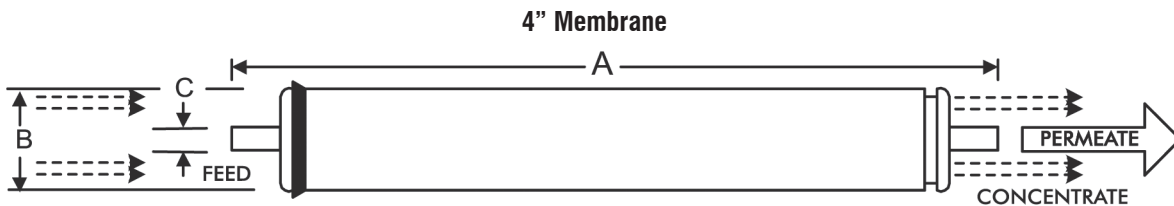
## Description

Low Pressure (LP) membrane elements adopt the most advanced polyamide sheets for brackish water desalination with TDS less than 5000mg/L whose source is surface water, ground water and others.

## Features

- ▶ 4" diameter standard Brackish water membranes
- ▶ High salt rejection rate and higher flow
- ▶ High stability and optimization structure facilitating cleaning
- ▶ Reduces energy consumption
- ▶ Saves investment by reducing the need for high end pump, pressure vessel & pipeline
- ▶ High quality raw materials
- ▶ Strict quality standards through rigorous testing to insure rejection & water flow

## Dimensions



A, inches (mm)	B, inches (mm)	C, inches (mm)	Weight, lbs. (kg)
40.00 (1016)	3.95 (100.3)	0.75 (19.1)	8 (3.6)

Core tube extension = 1.05" (26.7 mm)

## Technical Information

		Burton LP 4040
Specification	Permeate Flow	2,250 gpd (8.5m3/d)
	Minimum Salt Rejection	99.5 %
Type	Configuration	Spiral Wound
	Membrane Polymer	Composite Polyamide
	Nominal Membrane Area	85 ft2
Application Data*	Brine Spacer Material	Polypropylene
	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	14 GPM (3.2m3/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. The values may be more conservative for specific projects to ensure the best performance and longest life of the membrane.

## Test Results

The stated performance is initial (data taken after 30 minutes of operation), based on the following standard test conditions:

- ▶ 2000 PPM NaCl solution
- ▶ 150 psi (1.5 MPa) Applied Pressure
- ▶ 77 °F (25°C) Operating Temperature
- ▶ 15% Permeate Recovery
- ▶ 6.5 - 7.0 pH Range

## Notes

Permeate flow for individual elements may vary + 25% or - 15%. 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-bisulphite solution and 10% propylene glycol, and then packaged in a cardboard box.



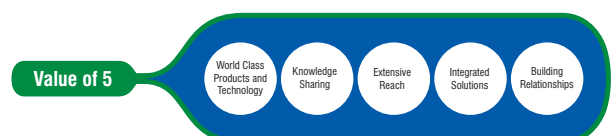
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