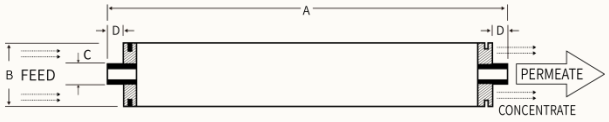
MAX-4040-XLP
Extra Low Pressure Element

Overview

XLP ultra-low pressure RO membrane elements deliver excellent water output and salt rejection even at extremely low operating pressures. Designed for desalination of water sources with salinity below 1,000 ppm, they are compatible with various ultrapure water systems. Key applications include food and beverage processing, biopharmaceutical production, and medical laboratory water.



A = 40.0″ (1,016 mm) B = 3.9″ (99 mm)
C = 0.75″ (19 mm) D = 1.05″ (26.7 mm)

Specification

Average Permeate Flow	Stable Salt Reiection	Min. Salt Rejection	Effective Membrane Area	Feed Spacer
12.1 m^3/d (3,200 gpd)	**99%**	**98.5%**	**8.7 m^2 (94 ft^2)**	**28 mil**

Test: 500 ppm NaCl · 100 psi (0.69 MPa) · 25°C · pH 7–8 · 15% recovery.

Note: The salt rejection rate generally needs to be tested after 24-48 hours of continuous operation, depending on the feed water quality and operating conditions;
The flow rate of a single membrane element may exhibit fluctuations, but within a range of ±15%.

Max. Operating Conditions

Pressure, psi(MPa)	**600 (4.14)**	Max. pressure drop for single element, psi(MPa)	**15 (0.1)**
Feed water flow, m^3/h	**3.6**	Temperature, °C(°F)	**45(113)**
Feed free chlorine tolerance, mg/l	**<0.1**	Feed Silt Density Index (15 min) SDI_{15}	**5**
pH range during continuously operation	**2-11**	pH range during chemical cleaning	**1-13**

Note 1: When the pH exceeds 10, the maximum temperature for continuous operation is 35°C.
Note 2: Under certain conditions, influent water containing free chlorine and other oxidizing agents can cause serious membrane damage, as oxidative damage is not covered by the product warranty.

Applications


Municipal water


Power plant


Food & beverage water ent


Pharmaceutical water treatment

whatsAPP

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