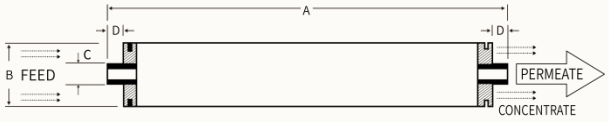
MAX-4040-ULP
Ultra Low Pressure Element

Overview

ULP ultra-low pressure RO membrane elements are suitable for various pure water systems. Designed for water sources with salinity below 2,000 ppm (such as surface water, tap water, and municipal water), they are widely used for boiler feedwater, food and beverage processing, precision machining, medical ultrapure water production, and drinking 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)	**99.5%**	**99.3%**	**8.7 m^2 (94 ft^2)**	**28 mil**

Test: 2,000 ppm NaCl · 150 psi (1.0 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


Water for precision


Power plant


Food & beverage water ent


Pharmaceutical water treatment

whatsAPP

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HYNAMO