

# RO MEMBRANE

## Industrial Grade Reverse Osmosis Membrane

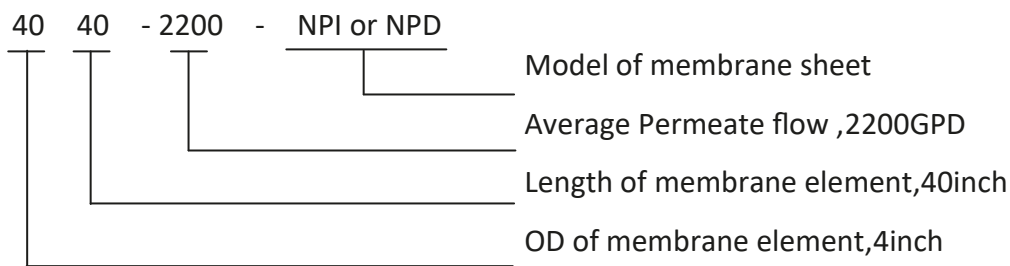
### Introduction

Canature RO membrane elements are widely used in water treatment and material separation and have improved impact resistant and antipollution property.

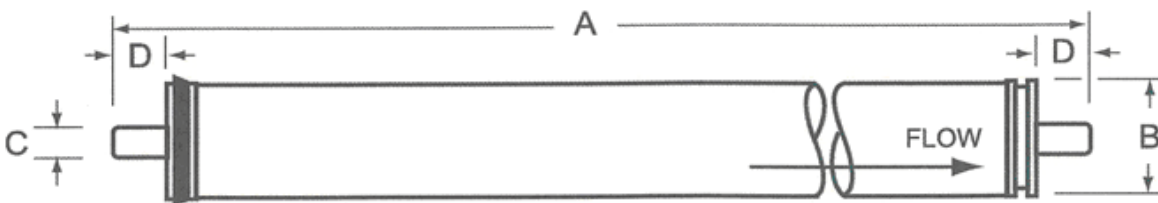
The tech specification specifies the basic structure, type model, performance, package, transportation, storage and attentions.

### Product specifications

Example of product type model specification : 4040-2200-NPI



### Membrane Element Figure



### Membrane Elements Dimensions , mm

Type model	A	B	C	D	Inspection tool	Accept quality level
4040-2200-NPI	1016±1	101.6±1	19±1	29±1	Callipers	n=20, c=0
8040-9000-NPI	1016±1	201.0±1	29±1	0	Callipers	n=20, c=0

### Typical Product Performance

Type model	Average permeate flow (GPD)	Stabilized salt rejection (%)	NaCl solution prepared with pure water	pH of Testing solution	Temperature (°C)	Applied pressure (psi)	Recovery (%)
4040-2200-NPI	2200	98	500±10	6.5-8.5	25±1	150	15
8040-9000-NPI	≥9000	99	2000±100	6.5-8.5	25±1	225	15

### Note:

- Permeate flow for warranty evaluation may vary  $\pm 15\%$
- Testing method: Flushing the membrane elements for 30min, then continuously operating the membrane elements for 1hr, then measure the permeate flow rate and collect the sample for measuring the salt rejection rate.
- AQL: n=20, C=0
- Membrane element can be assembled with corresponding membrane housing and no water leakage

### Operating Limits

Items	4040-2200-NPI	8040-9000-NPI
Max. Operation Pressure	365psi	600psi
Max. Permeate Flow	15gpm(3.4m <sup>3</sup> /H)	70gpm(16m <sup>3</sup> /H)
Max. Operation Temperature	40℃	40℃
Max. SDI of feed water	5	5
Concentration of free chlorine in feed water	Can not find the free chlorine	Can not find the free chlorine
pH rate range of feed water as continuous operation	2-11	2-11
pH range of feed water as chemical cleaning	1-12	1-12
Max. Pressure loss of per Membrane Element	20	20
Max. Pressure Loss of Pr Membrane Assy	60	60

### Product Package

RO membrane elements are vacuum packaging with polyethylene bag and have corresponding mark.

### Product Transportation and Storage

Do not add any influential chemical agent to membrane element during storage

Membrane elements storage place must be cool and dry, and without direct sunlight.

The temperature range must be 0-40℃ during transportation and storage.

Strictly prohibit throwing the package during transportation.

### Attentions !

Each membrane element passed test and did store treatment by 1.0% sodium hydrogen sulfite( will add 10% propylene glycol anti-freezing solution in the winter), vacuum package, then pack by carton. In order to avoid microbial growth, we suggest soak the element and use the protective liquid including 1.0% sodium hydrogen sulfite(which from RO membrane).

When the element is first used, the first tank permeate from RO membrane element should be discard.

Do not add any influential chemical agent to membrane element during operation.