

2.2.11 SHANGYUAN® Special Element (Zero Emission)

Brief Introduction

The SW-XC series are aromatic polyamide RO membrane elements, which are newly developed by Shangyuan Membrane Technology Co., Ltd. and can be used in such as zero discharge, garbage permeate, medicine, biological engineering, and pollution control.

Specifications and Major Properties

Model	Average Permeated Flow GPD (m ³ /d)	Stable Rejection Rate (%)	Minimum Rejection Rate (%)	Feed Space (mil)
SW-XC	8000(30.3)	99.8	99.6	34

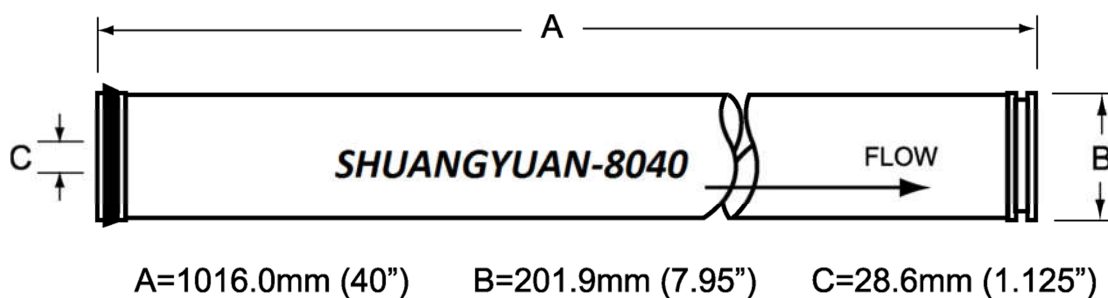
Testing Conditions: Testing Pressure 800psi (5.5Mpa)
 Temperature of Testing Solution 25℃
 Concentration of Testing Solution (NaCl) 32000 ppm
 PH Value of Testing Solution 7.5
 Recovery Rate of Single Membrane Element ... 15%

3. Extreme Operation Conditions

Max. Operating Pressure 1000psi (6.9Mpa)
 Max. Feedwater Flow 75gpm (17 m³/h)
 Max. Temperature of Feedwater 45℃
 Max. SDI of Feedwater 5
 Free Chlorine Concentration of Feedwater ... <0.1ppm
 PH Value Range of Feedwater as Continuous Operation 3~10
 PH Value Range of Feedwater as Chemical Cleaning 2~11
 Max. Pressure Difference of Single Membrane Element 15psi (0.1Mpa)

Dimensions of Membrane Element

All dimensions are shown in: millimeter (inch)



Important Information

1. Any specific application must be limited within the extreme operating conditions. We strongly recommend you to refer to the latest edition of technology manual and design guide prepared by Shangyuan Technology Co., Ltd., or consult experts proficient in membrane technology. In case the customer fails to follow the operating conditions as specified in this manual, Shangyuan technology Co., Ltd. will assume no liability for all results.
2. The permeate flow listed in the table is the average value. The permeate flow of single membrane element is within a tolerance not exceeding $\pm 20\%$ of the nominal value.
3. All wet-type membrane elements have been strictly tested before leaving the factory, and have been treated with the solution of 1.0% sodium hydrogen sulfite (an antifreeze solution of 10% propanediol required in winter) for storage purpose, then sealed with plastic bag in vacuum, and further packed in carton boxes. In order to prevent the breeding of microbes during short-time storage, transportation and system standby, we recommend you to soak the membrane elements with protective solution (prepared with RO filtered water) containing 1.0% sodium hydrogen sulfite (foodstuff-purpose).
4. Discard the RO-filtered water produced during the first one hour after system start-up.
5. During storage time and run time, it is strictly prohibited to dose any chemical medicament that may be harmful to membrane elements. In case of any violation in using this kind of chemical medicament, Shangyuan Technology Co., Ltd. assumes no liability for any outcome incurred herefrom.



SHANGYUAN TECHNOLOGY CO., LTD
ADD: BLD 2, Tiantongyuan Beiqijia, Changping district, Beijing China
