

## Scinor® Industrial Nano Membrane Elements SRT NBGS Series

### Brief Introduction

The main function of Industrial NF filtration membrane is to remove the organic matter, microorganisms, viruses, and most of the divalent metal ions or above while keeping sodium, potassium, calcium, magnesium and so on in the water. There is no chemical reaction, heating, or phase transition during the separation process of NF membrane, therefore, the biological activity will not be damaged, the flavor and aroma will be also not be changed, which make the NF membrane more and more widely applied in potable usage.

**SRT NBGS Series** developed by Scinor Membrane Technology Co.Ltd are mainly used in various separation and concentration purification processes in the food, medicine, biological engineering, pollution control and other industries.

**SRT NBGS-C0 Series:** Higher salt penetration, medium calcium penetration, and high TOC rejection rate.

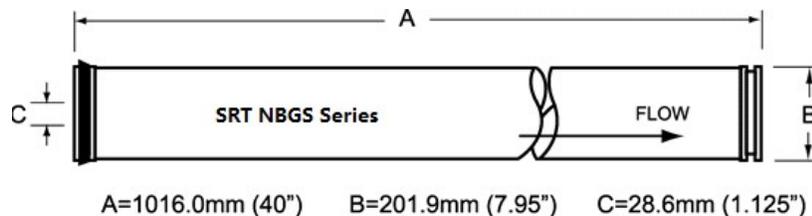
**SRT NBGS-C4 Series:** High salt rejection rate, good rejection rate for pesticides, herbicides, TOC and transition metals.

### Specifications and Major Properties

Model	Average Permeated Flow GPD (m <sup>3</sup> /d)	Rejection Rate (%)	Test solution concentration (%)
SRT NBGS-C0	11500(43.5)	30.0~50.0	2000 ppm CaCl <sub>2</sub>
	9000(34.1)	≥96.0	2000 ppm MgSO <sub>4</sub>
SRT NBGS-C4	8500(32.2)	≥90.0	2000 ppm CaCl <sub>2</sub>
	10000(37.9)	≥98.0	2000 ppm MgSO <sub>4</sub>

Testing Conditions:  
 Testing Pressure.....100 psi (0.69Mpa)  
 Temperature of Testing Solution .....25 °C  
 pH Value of Testing Solution .....7.5  
 Recovery Rate of Single Membrane Element....15%

### Dimensions of Membrane Element



All dimensions are shown in: millimeter (inch)

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### Extreme Operation Conditions

Max. Working Pressure	600 psi (4.14 Mpa)
Max. Feed water Flow	75 gpm (17 m <sup>3</sup> /h) (EBG) 16 gpm (3.6 m <sup>3</sup> /h) (EBT)
Max. Feed water Temperature	45°C
Max. Feed water SDI	5
Residual chlorine Concentration of Feed water	< 0.1ppm
pH Range of Feed water during Continuous Operation	3 ~ 10
pH Range of Feed water during Chemical Cleaning	2 ~ 12
Max. Pressure Drop of Single Membrane Element	15 psi (0.1 Mpa)

### Important Information

- 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 Scinor Membrane 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, Scinor Membrane Technology Co., Ltd. will assume no liability for all results.
- The permeate flow listed in the table is the average value. The permeate flow of single membrane element is within a tolerance not exceeding ±20% of the nominal value.
- Discard the RO-filtered water produced during the first one hour after system start-up.
- 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, Scinor Membrane Technology Co., Ltd. assumes no liability for any outcome incurred here from.

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