

## MASE-PS Membrane Element

### Brief Introduction

Material Separation NF Membrane is primarily used in the separation of monovalent salt and divalent salt, as well as in hardness removal, denitration separation and concentration of liquid, with the molecular weight cutoff covering 200~800 Dal.

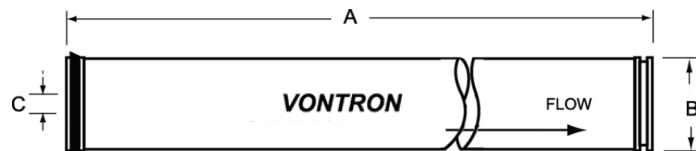
MASE-PS has a moderate rejection rate of monovalent ion, applicable to rejecting organics such as pesticide, herbicide, etc. in high-salt water

- \* The use of patented Uarc water distribution endcap ensures more even distribution of hydraulic load on the end surface, thus reducing the accumulation of pollutants.
- \* The use of brand-new LD (low pressure difference) 34-mil feed channel spacer improves the fouling resistance while reducing the energy consumption.
- \* The end cap adopts thermal-melt spin welding technology to enhance the structural strength of the membrane element and ensure stable operation of the membrane element under a high pressure difference environment.
- \* The use of hi-precision spiral-winding technology and low permeate resistance structure decrease the overall fouling rate of membrane element, thus maximizing the working efficiency of membrane element and effectively reducing the operational costs.

Model	Active Membrane Area ft <sup>2</sup> (m <sup>2</sup> )	Permeate Flow GPD(m <sup>3</sup> /d)	Stable Rejection %
MASE-PS	400 (37.2)	12000 (45.4)	98

<b>Testing Conditions</b>	Operating pressure 100 psi (0.69Mpa)	
	Temperature at 25°C	
	Tested in 2000 mg/L MgSO <sub>4</sub> solution	
	pH 7.0 ± 0.5	
	Recovery rate at 15%	
<b>Operation</b>	Maximum operating pressure	600psi (4.14Mpa)
	Maximum feedwater flow	75gpm (17 m <sup>3</sup> /h)
	Maximum feedwater temperature	45°C
	Maximum feedwater flow SDI <sub>15</sub>	5
<b>Limits &amp; Conditions</b>	Allowed pH range for feedwater in operation	3~10
	Allowed pH range for chemical cleaning	2~12
	Maximum concentration of free chlorine	<0.1ppm
	Maximum pressure drop per element	15psi (0.1Mpa)

**Size of Membrane Element:** 1.0 inch = 25.4 mm



A/mm(inch)	B/mm(inch)	C/mm(inch)
1016 (40)	201 (7.9)	29 (1.125)