

## VONTRON Alkalistab NF-4040 Membrane Element

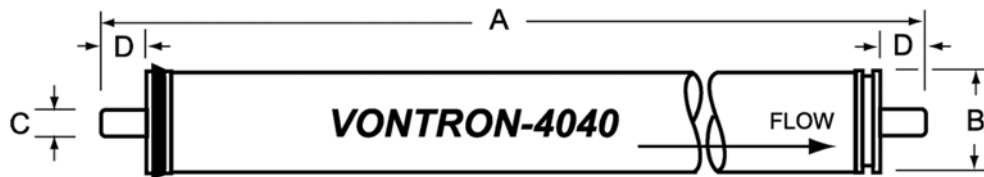
### Brief Introduction

Alkalistab series nanofiltration membranes are suitable for the treatment of pH 5 ~ 14 and the extreme feed solution which is not suitable for been described by pH Value.

The membrane elements can keep stable separation performance in 20% (w /%) NaOH, KOH and other strong alkaline solutions, with the unique patent membrane Combined process and high-permeate flow design, it will bring both economic and environmental benefits for the user.

Model	Active Membrane	Permeate Flow	Stable Rejection
	Area ft <sup>2</sup> (m <sup>2</sup> )	GPD(m <sup>3</sup> /d)	%
Alkalistab NF-4040	83 (7.7)	750 (2.8)	96
<b>Testing Conditions</b>	Operating pressure 110 psi (0.76 MPa)		
	Tested in 2000 mg/L MgSO <sub>4</sub> solution		
	Temperature at 25°C		
	pH 7.0±0.5		
<b>Operating Conditions &amp; Limits</b>	Maximum Operating pressure:		1015 psi (7.0 MPa)
	Maximum feedwater flow		4040 - 16 gpm (3.6 m <sup>3</sup> /h)
	Maximum feedwater temperature		50°C
	Maximum pressure drop per element		10 psi (0.07 MPa)

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



A/mm(inch)	B/mm(inch)	C/mm(inch)	D/mm(inch)
1016.0(40)	99.7(3.9)	19.1(0.75)	26.7(1.05)

### Notice:

- All data and information provided in this manual have been obtained from long-term experiment by Vontron. We confirm the effective and accuracy of the data. Vontron assumes no

liability for any aftermath caused by user's failure in abiding by the conditions specified in this manual in use or maintenance of membrane products. It is strongly recommended that the user shall strictly abide the designed use and maintenance requirements and keep relevant records.

2. The permeate value listed in the table is the average value. The permeate flow of single membrane element is 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 1.0% sodium hydrogen sulfite (10% glycerin antifreeze required in winter) for storage purpose, then sealed with plastic bag in vacuum, and further packed in carton boxes.
4. The membrane used should remain wet after being used; In long term suspension, to prevent the breeding of microbes, soak the membrane elements with protective solution is highly recommended, the solution (prepared with RO filtered water) containing 1.0% sodium hydrogen sulfite (foodstuff-purpose).
5. Operate low pressure flushing for 15-25 minutes of first use, high pressure flushing for 60-90 minutes when first use (Permeate volume no less than 50% of designed volume). Discard all the permeate and condensed water produced during the first one hour after system start-up.
6. During storage time and operation period, it is strictly prohibited to added any chemical medicament that may be harmful to membrane elements. In case of any violation in adding chemical medicament, Vontron assumes no liability for any damages incurred.
7. Along with technical development and product renovation, all information will be subject to modification without prior notification. Please keep notice the website of Vontron for any updates of the product.