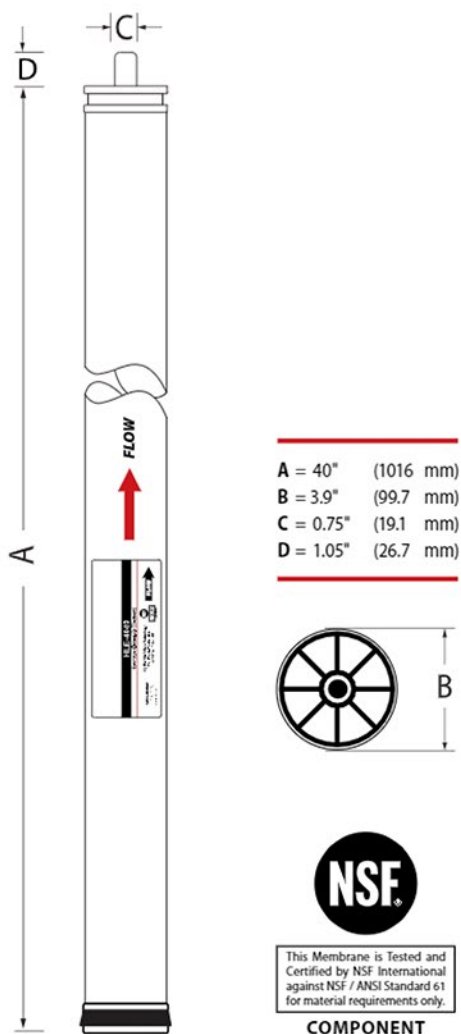




## HLE-4040 - DATA SHEET COMMERCIAL MEMBRANES



**Commercial Membrane Elements** with their hard shell fiberglass exterior provide outstanding performance for commercial systems. Membranes are manufactured in a State-of-the-Art, ISO-9001-2000 certified automatic rolling facility which provides you with a precise and advanced membrane element. Membranes not only deliver an attractive cost to benefit ratio, but also gives you a membrane that has consistently high quality and performance.

**Commercial Membrane Elements** can be used in a variety of mid sized commercial applications, such as car wash, bottling, manufacturing, water stores, food processing, and many other applications where a reliable, performance membrane is needed.

<b>MEMBRANE TYPE</b>	Polyamide Compound
<b>TESTING CONDITIONS</b>	
> Testing Pressure	100 psi (0.69 Mpa) (6.9 BAR)
> Temperature of Testing Solution	75 °F (25 °C)
> Concentration of Testing Solution (NaCl)	500 ppm
> pH Value of Testing Solution	7.5
> Recovery Rate of Single Membrane Element	15%
<b>EXTREME OPERATION CONDITIONS</b>	
> Max. Working Pressure	600 psi (4.14 Mpa) (41.4 BAR)
> Max. Feedwater Flow	16 gpm (3.6 m3/h)
> Max. Feedwater Temperature	113°F (45 °C)
> Max. Feedwater SDI	5
> Single Membrane Max. Pressure Drop	15psi (0.1Mpa) (1.03 BAR)
> Residual chlorine Concentration of Feedwater	<0.1ppm
> pH Range of Feedwater during Continuous Operation	3~10
> pH Range of Feedwater during Chemical Cleaning	2~12

Model #	Applied Pressure Psi (BAR)	Average Permeated Flow GPD (m <sup>3</sup> /d)	Stable Rejection Rate (%)	Active Membrane Area ft <sup>2</sup> (m <sup>2</sup> )	Max. Feed Temp. °F (°C)
HLE-4040	100 (6.9)	2800 (10.6)	98.0	90 (8.4)	113 (45)

### IMPORTANT INFORMATION

Under certain conditions, the presence of free chlorine and other oxidizing agents will cause premature membrane failure. Since oxidation damage is not covered under warranty, recommends removing residual free chlorine by pre treatment prior to membrane exposure. 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 Membrane Technology or consult experts proficient in membrane technology. In case the customer fails to follow the operating conditions as specified in this manual Membrane Technology 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 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.

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