

# Data Sheet



## Nanofiltration (NF) Membranes

### LG NF 400

## Overview

LG Chem's NanoH<sub>2</sub>O™ NF membranes serve various municipal, industrial and commercial applications. Incorporating innovative Thin Film Nanocomposite (TFN) technology, LG NF membranes deliver reliable and superior performance.

LG NF 400 membrane element delivers high-quality permeate water at ultra-low operating pressure for considerable energy savings. The NF element also incorporates a unique proprietary feed spacer technology for reducing differential pressure. The results are excellent lower cleaning frequency, chemical use, energy consumption, and total cost of plant ownership. LG NanoH<sub>2</sub>O™ NF 400 membrane elements are ideal for municipal potable water treatment and water reuse.

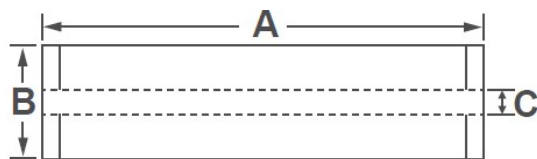
## Product Specifications

Active Membrane Area, ft <sup>2</sup> (m <sup>2</sup> )	Permeate Flow Rate, GPD (m <sup>3</sup> /d)	Stabilized Salt Rejection, %	Minimum Salt Rejection, %	Feed Spacer, mil
400 (37)	10,500 (39.7)	99.0	98.0	34, low dP

Test Conditions: 2,000 ppm NaCl at 25°C (77°F), 125 psi (8.6 bar), pH 7, Recovery 15%.

Permeate flow rates for individual elements may vary but will be no more than 20% below the value shown.

LG Chem recommends operating LG Nanofiltration membranes within 8 months from its original delivery date. The seller, at its discretion, may refuse to guarantee the performance in the event the membrane elements are not operated for more than 8 months from the original delivery date.



A, mm (in.)	B, mm (in.)	C, mm (in.)	Weight, kg (lbs.)
1,016 (40)	200 (7.9)	28.6 (1.125)	16 (35)

All dimensional information is indicative and for reference purpose only. Please contact LG Chem for detailed technical specification.

## Operating Specifications

For more information and operating guidelines, visit [www.lgwatersolutions.com](http://www.lgwatersolutions.com)

Max. Applied pressure	600 psi (41 bar)
Max. Chlorine concentration	< 0.1 ppm
Max. Operating temperature	45°C (113°F)
pH Range, Continuous (Cleaning)	2-11 (2-12)
Max. Feedwater turbidity	1.0 NTU
Max. Feedwater SDI (15 mins)	5.0
Max. Feed flow	75 gpm (17 m <sup>3</sup> /h)
Max. Pressure drop (ΔP) for each element	15 psi (1.0 bar)

The Membrane Elements performance is expressly conditioned on Buyer's storing, installing, operating, and maintaining Product in accordance with industry-accepted good practices and Seller's written instructions provided in the Seller's Technical Manual, which consists of LG Chem, Ltd [Technical Service Bulletins \("TSB"\)](#) and [Technical Applications Bulletins \("TAB"\)](#) and may be viewed and downloaded at [www.lgwatersolutions.com](http://www.lgwatersolutions.com).

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