

# MexFil™ MP025 dNF40

**Nanofiltration membrane module for water and wastewater applications**

## PRODUCT DESCRIPTION

The MexFil™ MP025 dNF40 nanofiltration modules have the following features:

- For lab scale test units;
- Excellent removal of color, divalent ions and dissolved organics, including micropollutants;
- Excellent pH tolerance;
- Inside-out operation in a cross-flow filtration mode;

## MODULE SPECIFICATIONS

**Membrane Surface Area** 0.067 m<sup>2</sup>

### Module Dimensions

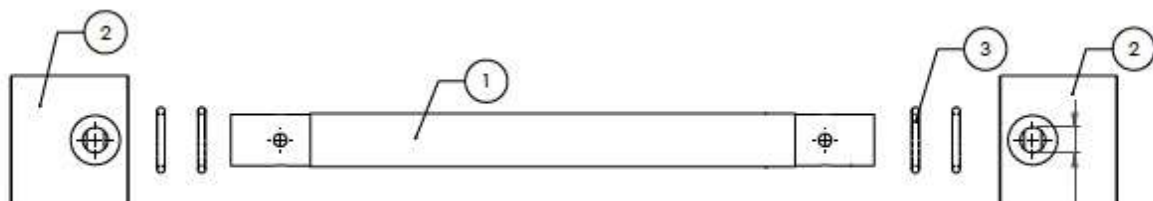
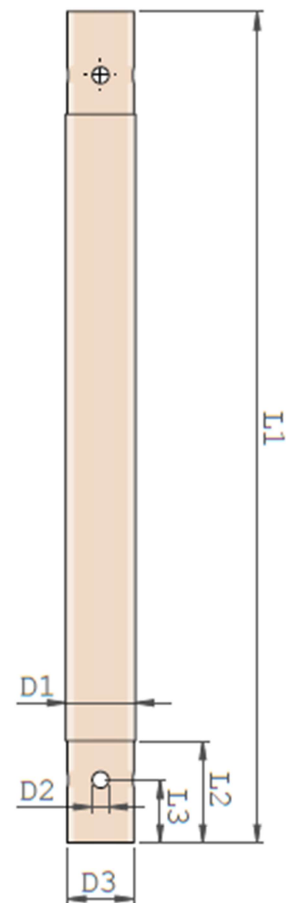
<b>L1</b>	300 mm	<b>D1</b>	25 mm
<b>L2</b>	37 mm	<b>D2</b>	6 mm
<b>L3</b>	23 mm	<b>D3</b>	24 mm

## MATERIALS OF CONSTRUCTION

<b>Housing</b>	PVC transparent
<b>Internals</b>	None
<b>Potting Material</b>	Epoxy resin

## ASSEMBLY<sup>1</sup>

- 1 Module
- 2 Endcaps (Material: PP)
- 3 O-rings (Material: EPDM) size: 23.39 x 3.53 mm



<sup>1</sup>Assembly components not included in the scope of supply of a MP025 dNF40 module. Please contact NX Filtration for the purchase of a complete assembly kit.

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## MEMBRANE SPECIFICATIONS

Membrane material	Modified PES
MWCO <sup>2</sup>	400 Dalton
Min. MgSO <sub>4</sub> rejection <sup>3</sup>	91%
Membrane charge	Negative @ pH=7
Membrane fiber inner diameter	0.7 mm

<sup>2</sup>Molecular Weight Cut-Off (MWCO) is an estimation as it depends on size, shape, charge and polarity of the compound being tested, as well as test conditions.

<sup>3</sup>Test conditions: 5.0mMol/L MgSO<sub>4</sub>, 3.0bar, 25°C, v=0.5m/s

## TYPICAL OPERATING RANGES

Max. system pressure <sup>4</sup>	6 bar
Max. transmembrane pressure <sup>4</sup>	6 bar
Max. backwash pressure <sup>4</sup>	6 bar
Max. temperature during operation	40°C
pH range during operation	2-12
pH range during cleaning	1-13
Max. active chlorine concentration	500 ppm @ pH>10
Max. cumulative active chlorine exposure	250,000 ppm-hours @ pH>10
Cross-flow velocity range	0.1 – 2.0 m/s (16 – 310 L/h)

<sup>4</sup>Maximum pressures at 20°C.

## FEED WATER SPECIFICATIONS

Max. TSS	300 ppm
Max. turbidity	150 NTU
Max. particle size	150 µm

your membrane partner

NX Filtration B.V. | Institutenweg 35 | 7521PH Enschede | The Netherlands | +31 (0)85 047 99 00 | [www.nxfiltration.com](http://www.nxfiltration.com) | [info@nxfiltration.com](mailto:info@nxfiltration.com)

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