



filtration

HYDROFLUX
industrial

MP025

dNF40

**Technical
Datasheet**

Nanofiltration membrane module for water and
wastewater applications

MP025 dNF40

Nanofiltration membrane module for water and wastewater applications

Product description

The MP025 dNF40 nanofiltration modules have the following features:

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

Membrane specifications

Membrane material	Modified PES
MWCO ¹	400 Dalton
Min. MgSO ₄ rejection ²	91%
Membrane charge	Negative @ pH=7
Membrane fiber inner diameter	0.7 mm

¹ 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.

² Test conditions: 5.0 mMol/L MgSO₄, 3.0 bar, 25°C, v=0.5 m/s

Typical operating ranges

Max. system pressure ³	10 bar
Max. transmembrane pressure ³	6 bar
Max. backwash pressure ³	6 bar
Max. temperature during operation & cleaning	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)

³ Maximum pressures at 20°C.

Feed water specifications

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

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Module specifications

Membrane Surface Area 0.050 m²

Module Dimensions

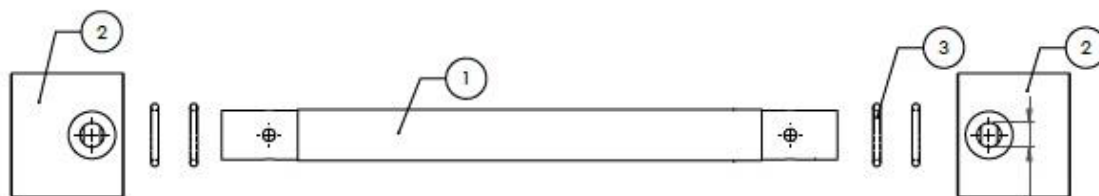
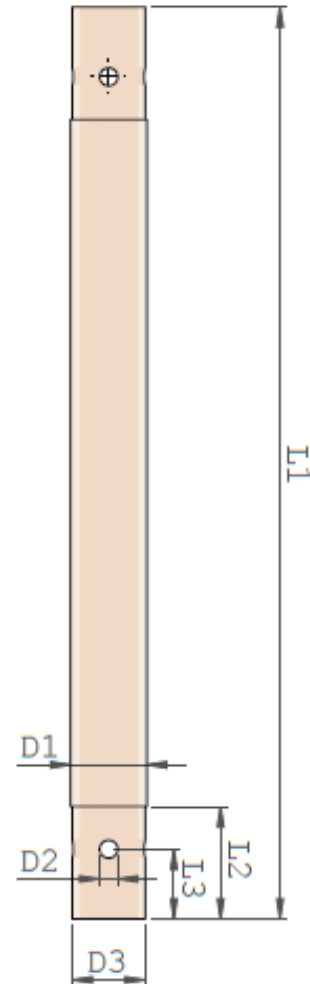
L1	300 mm	D1	25 mm
L2	37 mm	D2	6 mm
L3	23 mm	D3	24 mm

Materials of construction

Housing	PVC transparent
Internals	None
Material	Epoxy resin

Assembly⁴

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



⁴ 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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Release MP025-SMA dNF40-TDS 20200828
(replaces MP025 dNF40-TDS 20200611)

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