NanoPro™ S-3014

Solvent Stable Membrane Data Sheet

Product description

Membrane Chemistry:	Proprietary Composite Nanofiltration Membrane
Membrane Type:	Solvent Stable Nanofiltration Membrane
	8040 Spiral Wound Element
Construction*:	Feed Spacer: 31 mil, 46 mil
	Permeate Tube: Stainless steel

*For special requests, please contact AMS

Specifications

Model	Rejection %		Flux LMH (GFD)	Membrane Area m^2 (ft^2)	Feed Spacer mil
	Glucose	$MgSO_4$			
S-3014-8040-31S	90	92	95 (56)	31 (333)	31
S-3014-8040-46S				24 (264)	46

Test Conditions: 40 bar (580 psi), 30°C (86°F), Flux measured with RO water, Feed solutions for rejection tests are 3% glucose /3.2% NaCl/ 0.2% $MgSO_4$ in RO water. Permeate flux may vary for individual element but it will no more than 25% below the above value.

Operating Information(*)

Maximum Operating Pressure:	40 bar (580 psi)
Maximum Operating Temperature:	50°C (122°F)
Maximum Cleaning Temperature:	50°C (122°F)
Allowable pH – Continuous Operation:	2-11
Allowable pH – Clean in Place (CIP):	1-11
Maximum Pressure Drop per Element:	0.5 bar (7.2 psi)
Recirculation Flow Rate	8040: Minimum 90 L/min (24 gpm), Maximum 280 L/min (74 gpm)

(*) Consult AMS Technologies for specific information

AMST-V1.6

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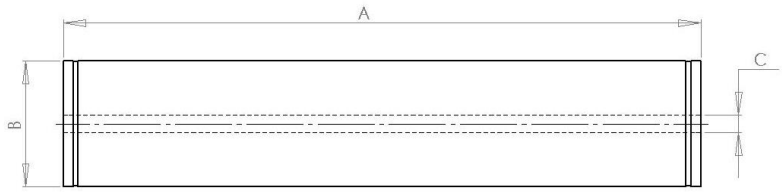
Recommended cleaning materials

- Depending on the nature of the feed material, a choice can be made from the following cleaning agents:
  - Sodium hydroxide at pH 10-12, 40°C (104°F)
  - Nitric or hydrochloric acid at pH 1-2, 40°C (104°F)
  - 0.2-1% w/w Na-EDTA, pH 10.5-11, 35°C (91°F)
  - 0.5% anionic surfactant (such as SDS), pH 10.5-11, 35°C (91°F)
- Water quality for cleaning:
  - Maximum turbidity is 1 NTU

Nominal Product Dimensions

For 8040:



Size	A		B		C	
	(Inches)	(mm)	(Inches)	(mm)	(Inches)	(mm)
8040	40	1016	7.9	200	1.122	28.5

Lubricants:

For element installation, use only water or glycerin to lubricate seals. The use of petroleum or vegetable-based oils or solvents may damage the element and void any warranty.

Preservation

- Short Term (up to two weeks): 0.25% w/w sodium metabisulfite.

Storage

- The membrane should not be allowed to dry. It should be stored in a sealed bag, at 4°-30°C (39-86°F).

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Solvent Stability*:

(S-Stable, LS- Limited Stability, NS-Not Stable):

Acetonitrile	S	Methanol	S
Ethyl acetate	S	Ethanol	S
2-Propanol	S	Hexane	S
Tetrahydrofuran (THF)	S	Acetone	S
Toluene	S	Dimethylformamide	S
N-Methyl Pyrrolidone	S	Methylene chloride	S

* Determined upon immersing the membrane in pure organic solvent for a period of 3 months at 25°C (77°F).

Other

- Do not expose the membrane to chlorine or other oxidants.

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