

UltraPro[™] A-U301

Acid Stable Membrane Data Sheet

Product description

Membrane Chemistry:	Proprietary Composite Ultrafiltration Membrane		
Membrane Type:	Acid Stable Ultrafiltration Membrane		
	8040 Spiral Wound Element		
Construction*:	Feed Spacer: 31 mil, 46 mil		
	Permeate Tube: Polysulfone		

*For special requests, please contact AMS

Specifications

Model	Deiter (in a d)	Flux LMH	Membrane Area	Feed Spacer
	Rejection %	(GFD)	m^2 (ft ²)	mil
A-U301-8040-31P	60-70	85 (50)	31 (333)	31
A-U301-8040-46P	0070	00 (00)	24 (264)	46

Test Conditions: 40 bar (580 psi), 30° C (86° F), Flux measured with RO water, Feed solutions for rejection tests are 0.2% MgSO₄ in RO water. Permeate flux may vary for individual element but it will no more than 20% 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:	0-12
Allowable pH – Clean in Place (CIP):	0-13
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

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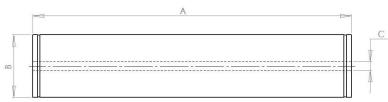


Recommended cleaning materials

- 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		В		С	
	(Inches)	(mm)	(Inches)	(mm)	(Inches)	(mm)
8040	40	1016	7.9	200	1.122	28.5

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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 four weeks): 1% w/w sodium metabisulfite.
- Long Term: Please refer to the AMS element storage and handling instructions.

<u>Storage</u>

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

Acid Stability:

Typical solutions include:

 20% H₂SO₄
 20% HCl
 4% HNO₃

 30% H₃PO₄
 15% Acetic acid

Our membranes run at high and stable fluxes in very acidic environment for 12 months and more.

Other

- Do not expose the membrane to chlorine or other oxidants.
- Sodium metabisulfite (without catalysts such as cobalt) is the preferred chemical to eliminate free chlorine or other oxidizers in the feed.

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