NanoPro™ B-4030

Base Stable Membrane Data Sheet

Product description

Membrane Chemistry:	Polyethersulfone
Membrane Type:	Base Stable Nanofiltration Membrane
	2540/4040 Spiral Wound Element
Construction*:	Feed Spacer (diamond): 31 mil, 46 mil
	Permeate Tube: Polysulfone

*For special requests, please contact AMS

Specifications

Model	Rejection % Na_2SO_4	Pure Water Flux LMH (GFD)	Membrane Area m^2 (ft^2)	Feed Spacer mil
B-4030-2540-31P	35-75	>200 (118)	1.8 (10.7)	31
B-4030-2540-46P			1.8 (10.7)	46
B-4030-4040-31P			7.6 (81.8)	31
B-4030-4040-46P			6.3 (67.8)	46

Test Conditions: 40 bar (580 psi); 20°C (68°F); Stirred cell (700 rpm).

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Operating Information (*)

Maximum Operating Pressure:	40 bar (580 psi)
Maximum Operating Temperature:	80°C (176°F)
Maximum Cleaning Temperature:	80°C (176°F)
Allowable pH – Continuous Operation:	3-14
Allowable pH – Clean in Place (CIP):	2-14
Maximum Pressure Drop per Element:	0.5 bar (7.2 psi)
Recirculation Flow Rate	2540: 2 m^3/h
	4040: 6–10 m^3/h

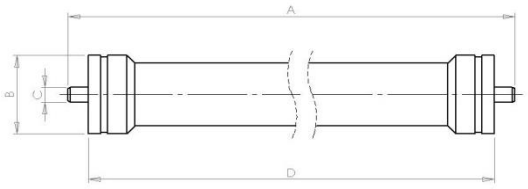
(*) Consult AMS Technologies for specific information

Recommended cleaning materials

- Use deionised water to wash the element. Use alkaline cleaner to clean organic contamination; use acidic cleaner to clean inorganic contamination.

Nominal Product Dimensions

For 2540:



Size	A	B	C	D
	mm (inches)	mm (inches)	mm (inches)	mm (inches)
2540	1016 (40)	62 (2.4) - OD	19.05 (0.75) - OD	965 (38)

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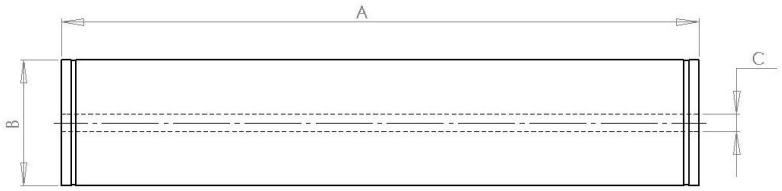
For 4040:



Size	A	B	C
	mm (inches)	mm (inches)	mm (inches)
4040	1016 (40)	101.5 (4.0)	16 (0.63) - ID

Lubricants:

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

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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