Nitto
Innovation for Customers

HYDRANAUTICS

Product Data Sheet

HYDRApolish 8

High Rejection RO composite sanitary membrane is designed specifically for dairy process applications requiring continuous operation at high pressure, high temperature, or periodic heat sanitization at high temperature. Applications include whey concentration, whey UF permeate concentration, skim milk concentration, and RO permeate polishing.

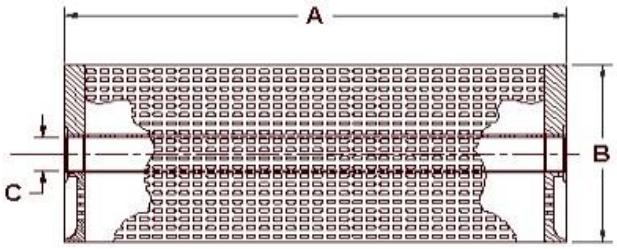
Components conform to FDA regulation CFR Title 21 Part 177. Product is Kosher and Halal certified.

General Product Description

Configuration: Sanitary (Full-Fit) Spiral Wound
Membrane Polymer: Composite Polyamide

Packaging: Elements are enclosed in a sealed polyethylene bag containing less than 1.0% sodium meta-bisulfite solution, and then packaged in a cardboard box. HYDRApolish 8 includes interconnector assembly, anti-telescoping devices (ATDs), and brine seals. For Halal applications do not use the brine seal.

Model	Feed Spacer, inch (cm)	Area, ft^2 (m^2)	Dimensions, inch (cm)			Max. Feed Flow, GPM (m^3/hr)	Max. Pressure Drop per Element, psi (MPa)
			A	B	C		
HYDRApolish 8	0.030 (0.076)	360 (33)	40.0 (101.6)	7.90 (20.1)	1.125 (2.86)	80 (18.2)	13 (0.09)



8040 Style with ATDs

Product Use and Restrictions^

Maximum Applied Pressure at 77°F (25°C):	1200 psig (8.3 MPa)
Maximum Applied Pressure at Maximum Temperature:	450 psig (3.1 MPa)
Maximum Operating Temperature:	158°F (70°C)
Sanitizing Temperature/Pressure Maximum:	185°F/25 psig (85°C/0.17 MPa)
Maximum Chlorine Concentration:	< 0.1 PPM
Operating pH Range:	2.0 – 11.0^
Cleaning pH Range (ambient temperature):	1.5 – 11.5
Cleaning pH Range (max temp 122°F/50°C):	1.8 – 11.0
Maximum Pressure Drop for a vessel	60 psi (0.41 MPa)

^ The limitations shown here are for general use. For specified projects, operation at more conservative values may ensure the best performance and longest life of the membrane. See Hydranautics Technical Bulletins for more details.

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