

BW30 PRO-4040 & BW30 PRO-2540 Element

Fiberglassed LargeCommercial Elements for Challenging Water Conditions

Key Features

- Delivers consistent water quality and higher rejection and flow than previous generation The Company BW30 product.
- Based on historical The Company BW30 industry-standard RO membrane with decades of proven performance.
- Outstanding durability resulting in stable, long-term performance and sustainable water solutions.
- Enhanced fouling protection.
- Dry elements achieve quick stabilization.

Key Applications

- Light industrial and drinking water applications requiring stringent permeate quality
- Harsh feed water conditions

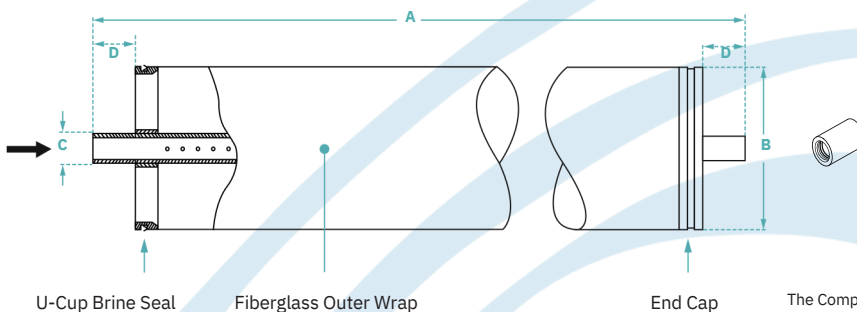


Typical Properties

Product	Part number	Active Area ft2 (m2)	Permeate Flow Rate gpd (m3/d)	Stabilized Salt Rejection (%)	Minimum Salt Rejection (%)
BW30 PRO-4040 element	12080524	85 (7.9)	2,600 (9.8)	99.7	99.5
BW30 PRO-2540 element	12081023	28 (2.6)	1,000 (3.8)	99.7	99.5

1. Permeate flow and salt rejection based on the following standard conditions: 2,000 ppm NaCl, 225 psi (15.5 bar), 77°F (25°C), pH 8 and 15% recovery.
2. Flow rates for individual elements may vary but will be no more than 15% below the value shown for BW30 PRO-4040 and no more than 20% below the value shown for BW30 PRO-2540
3. Sales specifications may vary as design revisions take place.

Element Dimensions



	Dimensions – inches (mm)	
	BW30 PRO-4040	BW30 PRO-2540
A	40.0 (1,016)	40.0 (1,016)
B	3.9 (99)	2.4 (61)
C	0.75 (19)	0.75 (19)
D	1.05 (27)	1.19 (30.2)
ID = Inner Diameter		
1 inch = 25.4 mm		

The Company coupler part number 89055 is ordered separately for each element. Each coupler includes two 2-210 EPR O-rings (part number 89255).

1. For element weight information refer to [What is the weight of The Company elements as delivered?](#) (Form No. 45-D04811-en)
2. For element packaging and shipping information refer to [How are The Company elements packaged and shipped?](#) (Form No. 45-D04811-en)
3. The Company BW30 PRO-4040 Elements fits nominal 4-inch I.D. pressure vessel, The Company BW30 PRO-2540 Elements fits nominal 2.5-inch I.D. pressure vessel.

Suggested Operating Conditions



Membrane Type	Polyamide Thin-Film Composite
Maximum Operating Temperature ¹	113°F (45°C)
Maximum Operating Pressure	600 psi (41 bar)
Maximum Pressure Drop	
Per Element	15 psi (1.0 bar)
Per Pressure Vessel	50 psi (3.5 bar)
pH Range	
Continuous Operation ¹	2 -
Short-Term Cleaning (30 min.) ²	11 - 1
Maximum Feed Flow ³	- 13
4040 Elements	16 gpm (3.6 m ³ /h)
2540 Elements	6 gpm (1.4 m ³ /h)
Maximum Feed Silt Density Index (SDI)	SDI 5
Free Chlorine Tolerance ⁴	< 0.1 ppm

1. Maximum temperature for continuous operation above pH 10 is 95°F (35°C).
2. Refer to The Company [Cleaning Guidelines](#) (Form No. 45-D01696-en).
3. For recommended feed and permeate flow rates, flux and recovery for various feed sources, refer to The Company [Design Guidelines for multiple-element systems of midsize elements](#) (Form No. 45-D01588-en).
4. Oxidation damage is not covered under warranty, The Company recommends removing residual free chlorine by pretreatment prior to membrane exposure. Please refer to [Dechlorinating Feedwater](#) (Form No. 45-D01569-en) for more information.

Important General Information

- Keep elements moist at all times after initial wetting.
- For successful operation of Reverse Osmosis (RO) and Nanofiltration (NF) membrane systems, the operation must follow the guidelines provided in the The Company [Reverse Osmosis / Nanofiltration Elements Operation Excellence and Limiting Conditions Tech Fact](#) (Form No. 45-D04388-en).
- To prevent biological growth during prolonged system shutdowns, it is recommended that membrane elements be immersed in a preservative solution.
- The customer is fully responsible for the effects of incompatible chemicals and lubricants on elements.
- Avoid static permeate-side backpressure at all times.
- Permeate obtained from the first hour of operation should be discarded.
- The use of this product in and of itself does not necessarily guarantee the removal of cysts and pathogens from water. Effective cyst and pathogen reduction is dependent on the complete system design and on the operation and maintenance of the system.

Please consider good operating practices for the optimal performance of the Reverse Osmosis membrane elements to assure damage free operation:

1. [Loading of Pressure Vessels – Preparation & Element Loading](#) (Form No. 45-D01602-en)
2. System Operation, including plant [Start-Up Sequence](#) (Form No. 45-D01609-en) and [RO & NF Systems Shutdown](#) (Form No. 45-D01613-en)
3. [Handling, Preservation, and Storage](#) (Form No. 45-D03716-en)

Full information of plant design, system operation, and troubleshooting is given in the The Company [Reverse Osmosis Membranes Technical Manual](#) (Form No. 45-D01504-en).

Regulatory Note

This product may be subject to drinking water application restrictions in some countries; please check the application status before use and sale.

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