

**Product Information** 



# DOW FILMTEC™ Membranes DOW FILMTEC 4.6" Tapwater RO Elements

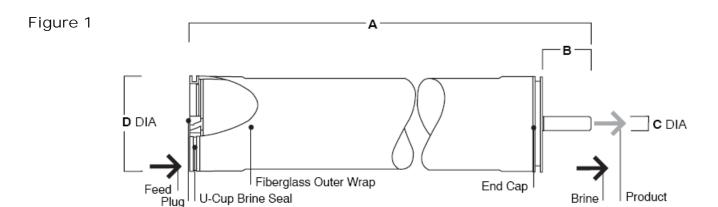
#### **Features**

DOW FILMTEC™ 4.6-inch diameter RO elements offer high quality water for sanitary applications, using the high performance TW30HP membrane, which offers excellent permeate flow and salt rejection. These elements are made with the same high quality materials of construction as our larger DOW FILMTEC elements used in municipal and industrial systems. For added convenience during shipping, storage and loading, these elements are available as either wet or dry products.

## **Product Specifications**

,	Product Water Flow Rate			Applied Pressure	Stabilized Salt
Product	(gpd)	(m³/d)	(l/h)	psig (bar)	Rejection CI- (%)
TW30HP-4611	1,200	4.54	189	225 (15.5)	99.0
TW30HP-4619	1,450	5.49	229	225 (15.5)	99.0
TW30HP-4641	5,200	19.68	820	225 (15.5)	99.0

- 1. Permeate flow and salt rejection based on the following test conditions: 2,000 ppm NaCl, pressure specified above, 77°F (25°C), pH 8 and the following recovery rates; TW30HP--4611 - 5%, TW30HP-4619 - 8%, TW30HP-4641 - 15%.
- 2. Minimum salt rejection for individual element is 98.0%.
- 3. Flow rates for individual elements may vary +/-20%.
- 4. For the purpose of improvement, specifications may be updated periodically.



	Maximum Feed	Dimensions – Inches (mm)					
Product	Flow Rate, gpm (m <sup>3</sup> h)	Α	В	С	D		
TW30HP-4611	18 (4.1)	11.32 (287.53)		0.75 (19)	4.61 (117)		
TW30HP-4619	18 (4.1)	19.20 (487.68)	_	0.75 (19)	4.61 (117)		
TW30HP-4641	18 (4.1)	41.31 (1,049)	2.19 (56)	0.75 (19)	4.61 (117)		

<sup>1.</sup> Refer to ROSA for multiple-element systems using the TW30HP-4641.

<sup>2.</sup> Elements fit nominal 4.6-inch I.D. pressure vessels.

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Polyamide Thin-Film Composite

### **Operating Limits**

Membrane Type

Maximum Operating Temperature113°F (45°C)Maximum Operating Pressure600 psi (4.1 MPa)Maximum Pressure Drop15 psi (1.0 bar)

pH Range, Continuous Operation<sup>a</sup>
pH Range, Short-Term Cleaning<sup>b</sup>
Maximum Feed Silt Density Index

Free Chlorine Tolerance<sup>c</sup>
< 0.1 ppm</li>

<sup>a</sup> Maximum temperature for continuous operation above pH 10 is 95°F (35°C)

b Refer to cleaning guidelines in specification sheet 609-23010.

Under certain conditions, the presence of free chlorine and other oxidizing agents will cause premature membrane failure. Since oxidation damage is not covered under warranty, DW&PS recommends removing residual free chlorine by pretreatment prior to membrane exposure. Please refer to technical bulletin 609-22010 for more information.

#### Important Operating Information

- Keep elements moist at all times after initial wetting.
- 2. If operating specifications given in this Product Information bulletin are not strictly followed, the FILMTEC Reverse Osmosis and Nanofiltration Element Three-Year Prorated Limited Warranty (Form No. 609-35010) will be null and void.
- 3. Permeate obtained from first hour of operation should be discarded.
- 4. To prevent biological growth during storage, shipping or system shutdowns it is recommended that DOW FILMTEC™ elements be immersed in a protective solution. The standard storage solution contains 1.0 percent (by weight) sodium metabisulfite (food grade).
- 5. The customer if fully responsible for the effects of incompatible chemicals on elements. Their use will void the FILMTEC Reverse Osmosis and Nanofiltration Element Three-Year Prorated Limited Warranty (Form No. 609-35010).

Notice: 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.

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