

**DOW FILMTEC™ Membranes**

DOW FILMTEC High Flow 100 Gallons Per Day Drinking Water Element

**Features**

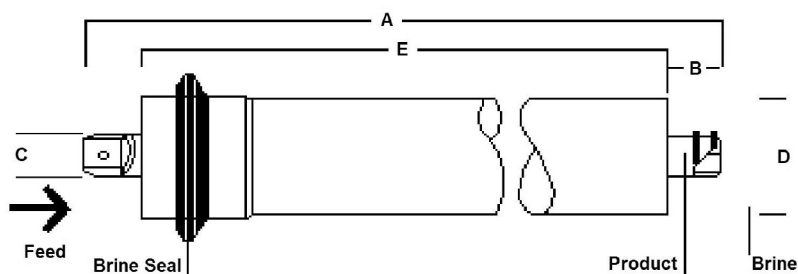
Dow Water & Process Solutions reverse osmosis membrane elements for home drinking water are the industry's most reliable. Advanced membrane technology and automated fabrication allow these elements to deliver consistent performance that equipment suppliers, water treatment dealers and residential customers can rely on. DOW FILMTEC elements are shipped dry for convenient handling and long shelf-life.

DOW FILMTEC™ TW30-1812-100 is rated a 50 psi and will purify about 20% more water than competitive elements rated at 60 psi.

**Product Specifications**

Product	Part Number	Applied Pressure psig (bar)	Permeate Flow Rate gpd (l/h)	Stabilized Salt Rejection (%)
TW30-1812-100	170102	50 (3.4)	100 (16)	90

1. Permeate flow and salt rejection based on the following test conditions: 250 ppm softened tapwater, 77°F (25°C), 15% recovery and the specified applied pressure.
2. Minimum salt rejection is 90.0%.
3. Permeate flows for individual elements may vary +/-20%.
4. Product specifications may vary slightly as improvements are implemented.
5. For ease of installation, element o-rings have been pre-lubricated with glycerin.

**Figure 1**

Product	Dimensions – Inches (mm)				
	A	B	C	D	E
TW30-1812-100	11.74 (298)	0.87 (22)	0.68 (17)	1.75 (44.5)	10.0 (254)

1. TW30-1812-100 elements fit nominal 2-inch I.D. pressure vessel. 1 inch = 25.4 mm

**Operating Limits**

• Membrane Type	Polyamide Thin-Film Composite
• Maximum Operating Temperature	113°F (45°C)
• Maximum Operating Pressure	300 psig (21 bar)
• Maximum Feed Flow Rate	2.0 gpm (7.6 lpm)
• pH Range, Continuous Operation <sup>a</sup>	2 - 11
• pH Range, Short-Term Cleaning (30 min.) <sup>b</sup>	1 - 13
• Maximum Feed Silt Density Index (SDI)	5
• Free Chlorine Tolerance <sup>c</sup>	< 0.1 ppm

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

<sup>b</sup> Refer to Cleaning Guidelines in specification sheet 609-23010.

<sup>c</sup> 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, FilmTec recommends removing residual free chlorine by pretreatment prior to membrane exposure. Please refer to technical bulletin 609-22010 for more information.