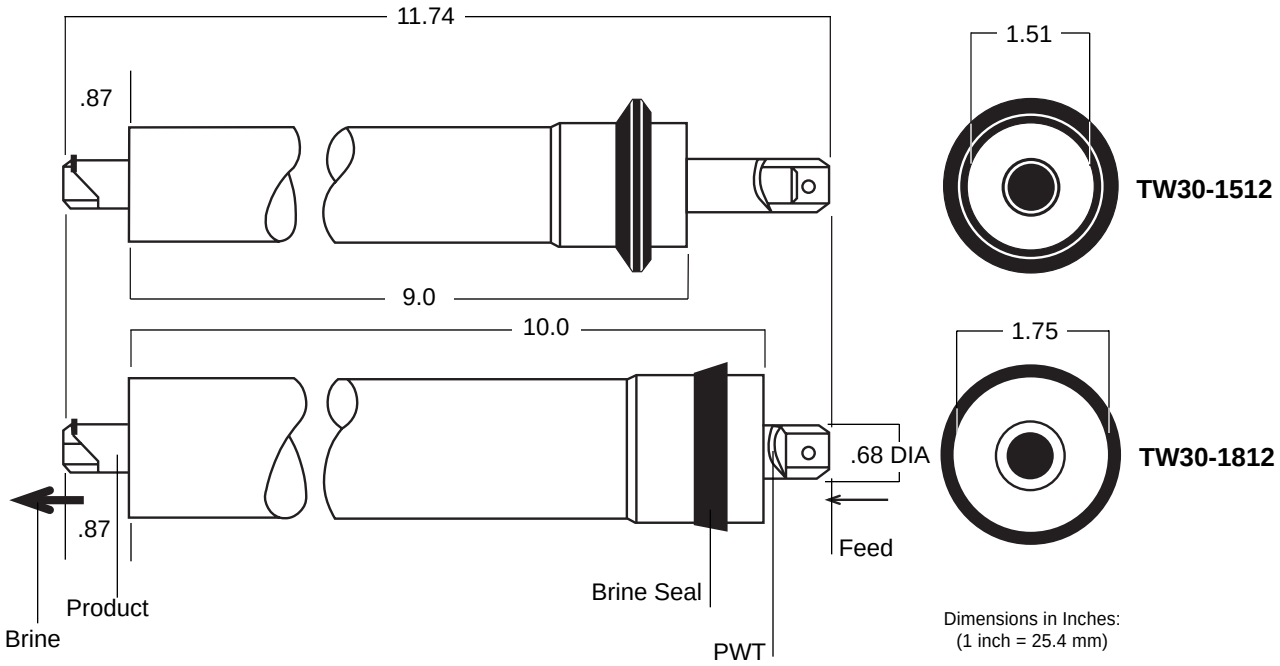
FILMTEC Membranes

FILMTEC® Low-Pressure RO Elements

Product Specifications

Product	Product Water Flow Rate (gpd)	(m^3/d)	(lph)	Minimum Salt Rejection Cl^- (%)	Stabilized Salt Rejection Cl^- (%)
TW30-1512-10	10	0.04	1.6	96	98
TW30-1812-16	16	0.06	2.5	96	98
TW30-1812-24	24	0.09	3.8	96	98
TW30-1812-36	36	0.14	5.7	96	98
TW30-1812-50	50	0.19	7.9	96	98
TW30-1812-75	75	0.28	11.8	96	98

1. Permeate flow and salt rejection based on the following conditions: 250 ppm softened tapwater, 50 psi (.36 MPa), 77°F (25°C), pH 8, and 15% recovery.



Operating Limits

Maximum Operating Pressure.....125 psi (0.86 MPa)
Maximum Feed Flow Rate.....2 gpm (7.5 lpm)
Minimum Concentrate Flow Rate.....4 x permeate flow
pH Range, Continuous Operation.....2-11
pH Range, Short-Term Cleaning (30 min.).....1-12
Maximum Operating Temperature.....113°F (45°C)
Maximum Feedwater Turbidity.....1 NTU
Maximum Feed Silt Density Index.....SDI 5
Free Chlorine Tolerance.....<0.1 ppm

COMPONENT
Tested and Certified to
ANSI/NSF Standard 58

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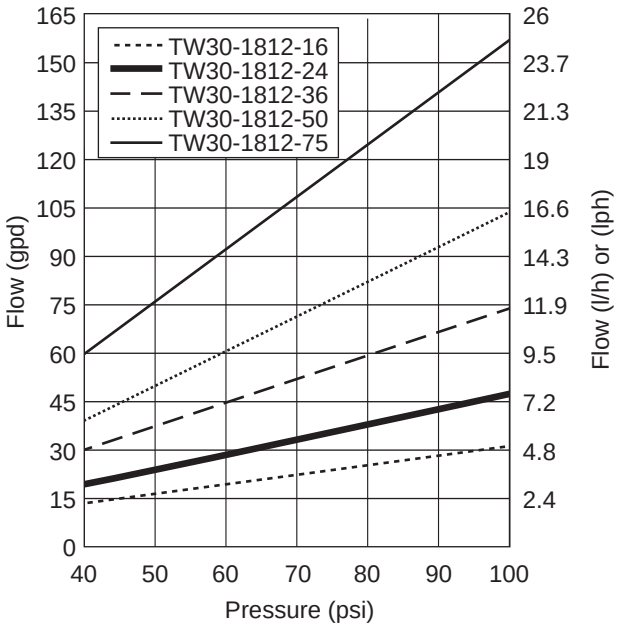
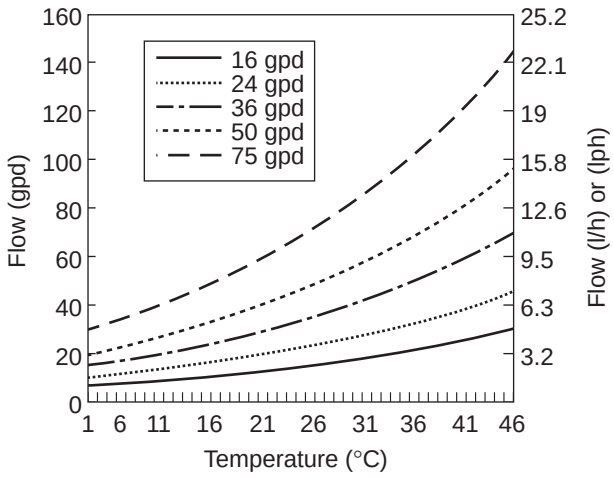
FILMTEC Membranes

For more information about FILMTEC membranes, call Dow Liquid Separations:
North America 1-800-447-4369
Latin America . . . . . .(+55) 11-5188-9345
Europe . . . . . .(+31) 20-691-6268
Japan . . . . . .(+81) 3-5460-2100
Australia . . . . . .(+61) 2-9776-3226
http://www.dow.com/liquidseps

Comparison of flow at various pressures (constant temperature, recovery)



Temperature effect on home drinking water elements



Important Operating Information

1. Install element into vessel.

2. Permeate obtained from first hour of operation should be discarded. Do not use this initial permeate for drinking water or food preparation.

3. Keep elements moist at all times after initial wetting.

4. If operating specifications given in this Technical Bulletin are not strictly followed, the limited warranty will be null and void.

5. To prevent biological growth during storage, shipping, or system shutdowns it is recommended that elements be immersed in a protective solution. The standard storage solution contains 1.5 percent (by weight) sodium metabisulfite (food grade).

6. The membrane shows some resistance to short-term attack by chlorine (hypochlorite). Continuous exposure, however, may damage the membrane and should be avoided.

7. The customer is fully responsible for the effects of incompatible chemicals on elements. Their use will void the element limited warranty.

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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