MEMTECK MEMBRANE TECHNOLOGY
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MemTeck™ Domestic Low Pressure (DLP)

KEY FEATURES	Applications
The **Domestic Low Pressure (DLP)** membrane has key features of: ➢ Low operation pressure 65 Psi, ➢ **High salt rejection** ➢ High permeate flow, ➢ These membranes are designed for domestic/commercial water treatment applications, such as the treatment of tap water, low salinity waters for home, residence, hospital, laboratory, shop, store	The **DLP** series of low-pressure elements is generally suitable for treating: ➢ Domestic water ➢ Tap water ➢ Low salinity Brackish water, ➢ Laboratory ➢ Shop, Store ➢ Hospital

Typical Properties

Product	Act17ive Membrane Area ft² (m²)	Permeate Flow Rate GPD	Stabilized Salt Rejection %
DLP-50	4 (0.4)	50	99.5
DLP-75	4 (0.4)	75	99.5
DLP-100	5(0.5)	100	99.5
DLP-125	5(0.5)	125	99.5
DLP-200	10(1)	200	99.5
DLP-300	14 (1.4)	300	99.5
DLP-400	16(1.6)	400	99.5

1. Test conditions: 1000 ppm NaCl, 65 psig (4.56 bar), pH 8, 77˚F (25˚C), 15 % recover.
2. Minimum salt rejection is 99 %.
3. Individual elements may have different permeate flows by +/15%.

Element Dimensions

Operation Specifications and cleaning limits*

Membrane Materials	Polyamide Thin-Film Composite
Maximum Operating Temperature[a]	113˚F (45˚C)
Maximum Pressure Drop	15 psig (1.0 bar)
pH Range	2 - 11
Maximum Feed Silt Density Index (SDI)	SDI 5
Free Chlorine Tolerance	< 0.1 ppm

1. Over pH 10, the maximum continuous temperature is 95˚F (35˚C).
2. In certain conditions, free chlorine and other oxidizing agents can cause premature membrane failure.

General Information

1. After initial wetting, keep elements moist at all times
2. The limited warranty will be null and void if the operating limits and guidelines are not strictly followed.
3. For the purpose of preventing biological growth during prolonged system operation shutdowns, membrane elements should be immersed in a preservative solution
4. The customer is fully responsible for the effects of incompatible chemicals and lubricants on elements
5. The maximum pressure drop across an entire pressure vessel (housing) is 50 psi (3.4 bar).
6. Always avoid static backpressure on the permeate side
7. The permeate obtained from the first hour of operation should be discarded.
8. Make sure there are no abrupt changes in pressure or crossflow
9. During start-up, shutdown, cleaning, or other sequences, spiral elements should be protected from damage. It is recommended to gradually transition from a standstill to an operating state during startup:
10. The feed pressure should be gradually increased over a 30–60-minute period
11. The crossflow velocity should be gradually increased over 15-20 seconds to reach the set operating point.
12. It is crucial that the system is designed and operated correctly in order to reduce cysts and pathogens effectively.
13. The permeate obtained from the first hour of operation should be discarded.

Important Information

14. To prevent membrane damage due to overfeeding or hydraulic shock, it is essential to start up reverse osmosis water treatment systems properly. As a result of following the proper start-up sequence, system water quality and productivity goals can also be achieved.
15. Pretreatment of the membrane, loading of the membrane elements, instrument calibration, and other system checks should be completed before starting the system

Regulatory Note

Please check the application status of this product before using or selling it; some countries may restrict the use of this product in drinking water.

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