



Tech Fact

Usage Guidelines for DOW FILMTEC™ 8” Elements

General Information

- If operating limits and guidelines given in this bulletin are not strictly followed, the limited warranty will be null and void
- The customer is fully responsible for the effects of incompatible chemicals and lubricants on elements
- Keep elements moist at all times after initial wetting
- To control biological growth during prolonged system shutdowns, it is recommended that membrane elements be immersed in a preservative solution

Operation Guidelines

- Maximum pressure drops are 15 psi (1.0 bar) per element or 50 psi (3.4 bar) per multi-element pressure vessel (housing), whichever value is more limiting
- Avoid static permeate-side backpressure at all times
- Avoid any abrupt pressure or cross-flow variations on the spiral elements during start-up, shutdown, cleaning or other sequences to prevent possible membrane damage. During start-up, a gradual change from a standstill to operating state is recommended as follows:
 - Feed pressure should be increased gradually over a 30 – 60 second time frame
 - Cross-flow velocity at set operating point should be achieved gradually over 15 – 20 seconds
 - Permeate obtained from first hour of operation should be discarded

Important Start-up Information

Proper start-up of reverse osmosis water treatment systems is essential to prepare the membranes for operating service and to prevent membrane damage due to overfeeding or hydraulic shock. Following the proper start-up sequence also helps ensure that system operating parameters conform to design specifications so that system water quality and productivity goals can be achieved.

Before initiating system start-up procedures, membrane pretreatment, loading of the membrane elements, instrument calibration and other system checks should be completed.

Please refer to the application information literature entitled "[System Operation: Initial Start-Up](#)" for more information.

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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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