**Valves**

The following valves are typically included in a membrane system:
- Feed inlet valve to shut down the plant for maintenance and preservation.
- Valve on the pump discharge line or bypass line to control feed pressure during operation and feed pressure increase rate during start-up.
- Check valve on pump discharge line.
- Check valve and atmospheric drain valve on permeate line to prevent permeate pressure from exceeding the feed pressure.
- Flow control valve on the concentrate line to set the recovery. (Caution: backpressure valve must not be used.)
- Valve in the permeate line to provide permeate drain during cleaning and start-up.
- Valves in the feed and concentrate lines (and between stages) to connect a clean-in-place system.
FILMTEC™ Membranes
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China: +10-800-600-0015
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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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