



FILMTEC Membranes

System Design: System Components

Control Instruments

To ensure proper operation of the RO or NF system, a number of control instruments are necessary. The accuracy of all instruments is critical. They must be installed and calibrated according to manufacturer's instructions.

- Pressure gauges to measure the pressure drop across the cartridge filter, the pressure on the pump inlet line and discharge line, the feed pressure to the membrane element(s), the pressure drop between feed and concentrate of each stage, and eventually the pressure in the permeate line. Liquid-filled gauges should contain membrane-compatible fluids such as water in place of oils or other water-immiscible liquids.
- Flow meters to measure concentrate and total permeate flow rate, also permeate flow rate of each stage.
- Water meters in the permeate and feed line to log the total water volume treated and produced.
- Hour meter to log the total operating time.
- pH meter in the feed line after acidification to measure carbonate scaling potential.
- Conductivity meters in the feed line, concentrate line and permeate line to determine permeate quality and salt rejection.
- Sample ports on the feed, concentrate and permeate (total permeate and permeate of each stage) to enable evaluation of system performance. A sample port on each pressure vessel permeate outlet is recommended to facilitate troubleshooting.

FILMTEC™ Membranes
For more information about FILMTEC
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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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