

Reverse Osmosis and the LCA Series

Reverse osmosis (RO) is a widely utilized process in a multitude of industries needing applications for desalinization, general water treatment, or to create ultrapure water. A reverse osmosis system works by pressurizing water and forcing it through a semipermeable membrane to remove ions, molecules, and larger particles from the water. A typical reverse osmosis system includes a complex series of filters, shut-off valves and flow restrictors. Restricting the flow of water is especially important, and monitoring that is vital to the success of an RO system.

The Importance of Monitoring

On an RO system a flow monitor alerts operators quickly if flow rates are outside normal limits, letting them take appropriate corrective action. In an automated system, pumps could shut down before much product is spoiled or any equipment damaged.

The ChemTec Solution: LCA Series

Flow restrictors, also called flow controls, in many cases should be accompanied by a flow monitor to monitor the amount of "dirty" water going out through the drain. We recommend having a flow monitor for each stage of a reverse osmosis system. ChemTec has a series of options, including the LCA Series.



The LCA Series is an adjustable flow monitor that is highly customizable for many systems. When flow is increased, its magnetic piston is forced against a bias spring. As the magnet comes near the adjustable reed switch it actuates, indicating proper flow. When flow decreases the spring forces the piston in the opposite direction, deactuating the reed switch and indicating a reduced or no-flow situation.

The LCA Series features include:

- Adjustable
- Confirms: Normal flow conditions
- Senses: high flow or low flow conditions
- Output: Switch Contact

Order Your ChemTec Product Today!

3077 S.W. 13TH DRIVE DEERFIELD BEACH, FLORIDA 33442

TOLL-FREE: (800) 222-2177 | LOCAL/INT'L: +1 (954) 428-8259 | FAX: (954) 428-8745
info@chemtec.com

