

# COMMERCIAL

## JUST ADD WATER BULLETIN; ISSUE 5

### PRODUCT/APPLICATION – EXTERNAL PILOT FEED ADAPTER

*Just Add Water* is an Osmonics publication designed to communicate important product and application information on design modifications, Magnum Cv™ control valve applications, sales and marketing announcements, and any other pertinent information affecting the Autotrol® Magnum Cv control valve.

The versatility of the Magnum Cv series product line will inherently place it in applications that provide challenging conditions for reliable and trouble-free operation. Low-system water pressure is a condition that can cause operational problems for any water treatment control valve. The Magnum Cv series valves are also challenged by low pressure conditions. Adequate system pressure is required by the brine injector for proper brine draw, as well as by the diaphragm valve cartridges for proper activation and positioning. Another challenge is supply water that contains high turbidity, such as ferric iron or sand. This particulate matter can foul the pilot screen, reducing pilot pressure, thereby rendering the diaphragm valve cartridges inoperable. Both of these application challenges can result in above-average service calls.

### WE HAVE THE SOLUTION! – External Pilot Feed Adapter Part No. 1040668

The external pilot feed adapter has been designed to provide the Magnum Cv pilot assembly and diaphragm valve cartridges with a separate source of water. The adapter replaces the pilot screen, sealing off the internal supply of water from the inlet and provides a convenient 1/4-inch tubing connection for the external supply. Use of the pilot feed adapter is typically dictated by the application. A low or varying inlet water pressure situation can be solved by feeding the pilot assembly from a separate city supply or a constant high pressure water source, regulated by a booster pump. Turbidity or particulate matter in the source water is a problem that is easily solved by feeding the pilot water through a 30-micron sediment cartridge filter and utilizing the external pilot feed adapter. This way, a clean supply of water is fed to the pilot assembly and diaphragm valve cartridges, eliminating the potential for premature servicing.

