

VILLAGE OF WATERLOO WATER DEPT CHOSE KEYSTONE VALVE WITH THE SMARTSTEP ACTUATOR TO REPLACE OUTDATED LIQUID LEVEL CONTROLS

The Client

WATERLOO WATER

The Challenge

- Replace obsolete filter liquid level controls
- Required fail safe operation upon power loss

The Solution

- 8" Keystone NSF-61 butterfly valve
- SmartStep electric actuator, 100% duty cycle and fail close on power loss
- Ultra Sonic Sensor

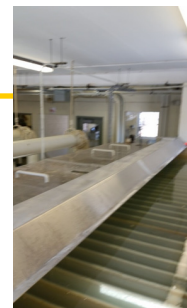
The Result

- On-Time Project Completion
- Accurate level control
- Lower maintenance costs



RM Headlee, a New York based distributor of valves, actuators and controls developed a simple control package for the water markets. Many municipalities have older equipment controlling their filter beds. Most of the valves, actuators and liquid level components are no longer made with no supporting spare parts. There are three primary items needed to upgrade to a simple, accurate proven system:

- Valve, typically a butterfly style, EPDM seats, S/S disc & stem with NSF certification. Either lug or wafer cast iron body. Double stem bearing for modulation service.
- Electric actuator to control the valve. 4-20 mA control signal can be used modulating the valve with options such as limit switches, 4-20mA feedback, fail position, 100% duty cycle for continuous control are readily available
- Ultrasonic sensor, measures distance from the sensor to the water surface (no water contact). Can be programmed to any distance and target level of the filter bed. Time delay can be calibrated avoiding the valve and actuator from constant hunting.



KEYSTONE