

## FAIL CLOSE TO FAIL OPEN SPRING RETURN ACTUATORS

The typical fail option for spring return actuators on a Marwin ball valve is the fail close option. A common request is for a customer in the field to get instructions on changing that action if needed.

The information below should assist you in changing the action of the spring return actuator on a Marwin ball valve.

The valve set for Fail Close will start off in the closed position (Fig 1 & Fig 2). The picture indicates the valve closed and the position indicators for the fail close option.



Fig 1



Fig 2

In the Fail Close positions, the actuator will rotate clockwise to close and counter-clockwise to open.

To change the action to fail open, remove the actuator from the valve. Rotate the stem of the valve to move the ball to the open position. (Fig 3-4) Mount the actuator back onto the valve. The position indicators should be changed to indicate the fail open position.(fig 5) With the actuator changed to the fail open position the actuator springs will go clockwise to open and counter-clockwise to close.



Fig 3



Fig 4



Fig 5

This same instruction can be used to change the action from a fail open to a fail close actuator as well.