

LIMITORQUE VALVE OPERATOR BACKWASH VALVES

1. Only calibrate with the Washwater tanks drained.
2. Notify the Operator before calibrating.
3. Connect milliamp reader to terminal block numbers 7 and 8 to measure valve report back position.
4. Connect process 4-20 mA output to terminal block numbers 17 and 18, being sure to totally disconnect at least one of the twisted pair wires that were there.
5. Place valve in local control and shut it completely. Adjust the zero control on the position transmitter (pt20sd) input display to read 4.00 mA by the milliamp reader.
6. Open valve till the dial valve position indicator reads 50%. Adjust the span control on the position transmitter (pt20sd) to make the milliamp reader display show 12.00 mA.
7. Repeat steps 6 and 7 until you no longer have to readjust.
8. Ensure valve is open to 50%.
9. Place valve in remote control and process meter to 4.00 mA.
10. Valve should go closed and closed limit switch should activate.
11. If valve is not closed, adjust zero control on Modutronic 20 II circuit board until valve just closes.
12. Open valve to 25%, then turn output signal to 4.30 mA.
13. Valve should not fully close. If it does, adjust zero control until the valve just opens a little.
14. Turn output signal to 4.00 mA. Valve should close.
15. Turn the output signal to 12.00 mA. Valve should just open to 50% and the report back signal should read near 12.00 mA. If it does not, adjust span control on Modutronic 20 II circuit board until valve is open 50%.
16. Turn control signal back to 4.00 mA and verify valve just closes. Yu may have to adjust the zero and span several times to achieve good tracking.
17. With the valve fully closed, turn control signal to 6.88 mA and verify that the valve opens to about 18% and report back current is close to 6.88 mA.
18. When you are satisfied with the results. Reconnect wires as they were an make sure valve is in the remote position.