

LIMITOQUE VALVE OPERATOR
FILTER EFFLUENT VALVES

1. Only calibrate effluent valves on filters that are in service with the wash water tanks drained.
2. Notify the Operator before calibrating.
3. Since calibration of these requires shutting the valve several times, an extra filter should be put in service to avoid excessive flows through filters not being calibrated at the time.
4. Connect milliamp reader to terminal block numbers 7 and 8 to measure valve report back position.
5. 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.
6. 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.
7. Open valve till the dial valve position indicator reads 75%. Adjust the span control on the position transmitter (pt20sd) to make the milliamp reader display show 16.00 mA.
8. Repeat steps 6 and 7 until you no longer have to readjust.
9. Ensure valve is open to 50%.
10. Place valve in remote control and process meter to 4.00 mA.
11. Valve should go closed and closed limit switch should activate.
12. If valve is not closed, adjust zero control on Modutronic 20 II circuit board until valve just closes.
13. Open valve to 25%, then turn output signal to 4.50 mA.
14. Valve should not fully close. If it does, adjust zero control until the valve just opens a little.
15. Turn output signal to 4.00 mA. Valve should close.
16. Turn the output signal to 16.00 mA. Valve should just open to 75% and the report back signal should read near 16.00 mA. If it does not, adjust span control on Modutronic 20 II circuit board until valve is open 50%.
17. Turn control signal back to 4.00 mA and verify valve just closes. You may have to adjust the zero and span several times to achieve good tracking.
18. When you are satisfied with the results. Reconnect wires as they were and make sure valve is in the remote position.