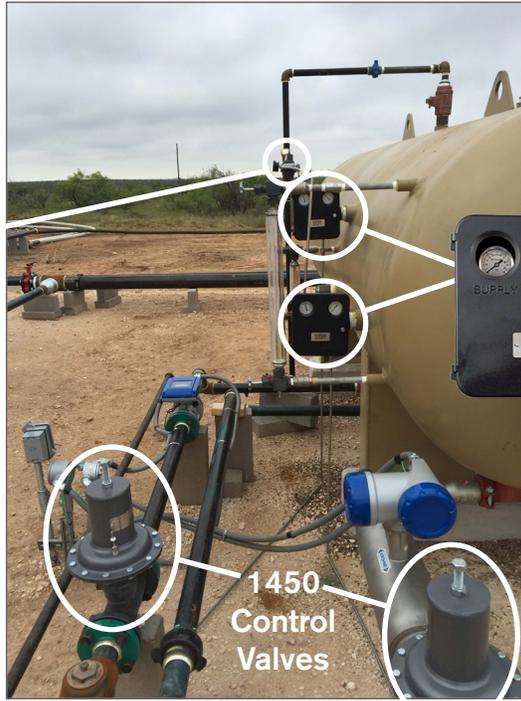


1267 Air Filter Regulator



Application Note

*Submitted by
Brian Carter from
SLATER CONTROLS
Thanks, Brian!*

**1600 Series
Liquid Level
Controllers**



**1450
Control
Valves**

Product 1600 Series Liquid Level Controller, 1450 Control Valve
Application Test Separator
Industry Oil & Gas

Challenge An oil company wanted to have accurate metering and typically the meters and control (dump) valves are not sized at the same time or by the same person. The oil was to be measured by a Coriolis meter while the water was to be measured by a magnetic flow meter. Both meters essentially have a point at which the flow could be too low to measure properly. Because of this, corresponding control valves need to be sized accordingly in order to assure the flow rate is high enough for the meters. This is on a test separator which is used for allocation as well as well production analysis. The level application also requires that proper pad level be maintained as not to send water into the oil side of the separator as well as making sure that oil makes it into the sales line without issue.

Solution SOR® 1450 Control Valves were sized to ensure that proper instantaneous flow rates were achieved to get the most out of the flow meters. Valves selected were snap acting as they wanted to meter the rates of both oil and water. Typically the water leg would be a throttling application to maintain a more constant level, but a snap acting dump was required to get the proper instantaneous flow rate. SOR 1600 Series Liquid Level Controllers and SOR 1267 Air Filter Regulators were also supplied to ensure proper operation of valves.



**1450
Control Valve**