Higher performance and operator confidence thanks to Emerson’s TopWorx™ valve controllers

RESULTS
- Provided real-time feedback on process valve position
- Increased operator’s confidence
- Enhanced decision making
- Improved safety
- Saved material and labor costs

APPLICATION
Position Indication for Actuated Valves

CHALLENGE
An oil and gas production company required position indication sensors for the automated process valves that controlled oil field production. The valves managed the flow of crude oil to pipelines and storage tanks and were installed in emergency shutdown applications. The oil producer wanted the sensors mounted on these actuated valves to provide position feedback to maximize production, reduce maintenance time, and improve safety. The sensors had to be rugged and dependable since they were installed in remote locations.

SOLUTION
The oil and gas producer chose the TopWorx Model DXR discrete valve controller for its position monitoring application. The robust and reliable valve monitor was a field-proven solution that met the customer’s requirements. Its rugged resin enclosure was ideal for withstanding the oil field’s harsh environment. The Model DXR provided continuous feedback as the valve moved, so its position was known to the operator in real-time. This capability provided a much higher level of performance and operator confidence than the end-of-travel indication offered by most limit-switch alternatives. As a result, the operator could make more informed decisions about the exact location of the valve control element. This permitted more productive decisions on safety, maintenance, and repair that saved material and labor costs. The company has standardized on TopWorx discrete valve controllers and continues to order its products.