



RUPTURE-MITIGATION VALVE AUTOMATION SOLUTIONS

OUR SOLUTIONS

Is your pipeline company adequately prepared for the PHMSA Final Rule? The latest regulations require the installation of rupture-mitigation valves (RMVs) for onshore gas transmission, Type A gathering lines, and hazardous liquid lines 6 inches or greater. The rule includes updates to requirements for valve spacing, operational updates for maintenance and inspection, risk analysis, and emergency response. EN Automation has extensive pipeline industry experience, and we are uniquely qualified to assist companies with RMV compliance and valve automation.

Integrity and safety are critical to pipeline infrastructure and public safety, and much of this burden falls on operators. EN Automation understands the importance of establishing RMVs with the proper alarming and functionality to help operators manage the responsibility of following regulations in the event of a rupture.

EN Automation's automation and controls professionals have the expertise needed to manage a wide range of RMV applications and our portfolio includes automating over 900 valves for major pipeline companies.

EN AUTOMATION'S COMPREHENSIVE SERVICE OFFERINGS FOR RMV AND VALVE AUTOMATION INCLUDE:

Applicability:

- System reviews and applicability studies
- Evaluation of RMV options and alternatives

Design:

- Pipeline and facility design
- Valve automation
- Leak detection
- Communication and SCADA system updates

Implementation:

- Incorporation of leak detection and RMVs into SCADA
- Control room integration and implementation
- Field commissioning and point-to-point verification

Data Analytics:

- Evaluating ASV/RCV placement location within operating system based on flow modeling and GIS locations
- Support rupture detection analysis
- Data tracking and trending analysis tools

Processes and Procedures:

- Annual ERP reviews and field exercises
- Flow modeling
- Notification procedures
- Effectiveness testing
- OQ updates



ENAUTOMATION

ENTRUST Solutions Group is a leading design firm and control systems integrator with the experience and resources to help our clients manage every aspect of the rupture-mitigation valve process from applicability studies to design, software development, SCADA, panel fabrication, commissioning, and ongoing support.

The primary defense in reacting to a pipeline failure is to isolate the ruptured line. Valve automation accomplishes this by first detecting, and then closing valves surrounding the rupture using automatic shut-off valves (ASV), remote-controlled valves (RCV), or alternate equivalent technology. Our extensive experience and industry knowledge enable us to help our clients select the right valve automation solutions with some of the following considerations:

- SCADA and gas control capability
- Communication system reliability
- Valve system reliability and failure modes
- Managing multiple events
- Pipeline network complexity
- Proximity to major customer loads
- Proximity to seismic faults



Our engineers have decades of experience working with pipeline and facility clients, specifically conducting installation of RCVs, ASVs, gas and electric actuators, and solar power systems at remote and urban locations. As a CSIA-certified systems integrator, we comply with rigorous industry standards and apply best practices supporting over 50 automation platforms. We can help clients determine the best solution for automating RMVs with customized solutions or turnkey packages.

Partner with us for guidance and support for every aspect of the compliance journey.

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