

Pilot Operated Relief Valves Improve Safety at Energy Utility

RESULTS

- Second layer of overpressure protection to comply with new regulations
- Substantial cost avoidance in relight costs when overpressure events occur
- Precise understanding of relief event location to expedite service technicians

APPLICATION

Pressure Relief Valves

CUSTOMER

Natural gas distribution utility in the U.S.

CHALLENGE

With the recent PIPES Act legislation mandating a second form of overpressure protection for utilization pressure stations, a natural gas distribution utility reached out to Emerson for potential options. Pressure relief valves provide reliable overpressure protection while guaranteeing continuity of service to customers. Additionally, to minimize their carbon footprint and increase their safety measures, they wanted to monitor these relief valves.

SOLUTION

Emerson and one of our Impact Partners offered low pressure pilot valves with relief valve monitoring. This package solution provides fail safe overpressure protection, eliminated emissions due to natural gas leakage and provided real-time overpressure alerts.

RESOURCES

Anderson Greenwood™ Low Pressure Pilot Valves
PRV Monitoring Application Guide
PRV Monitoring Demo Video



“It costs us \$5M to relight every 10,000 customers each time we shut off natural gas service. PRVs provide the safety we need without shutting off gas service.”
- Engineering Director of Natural Gas Distribution Utility



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