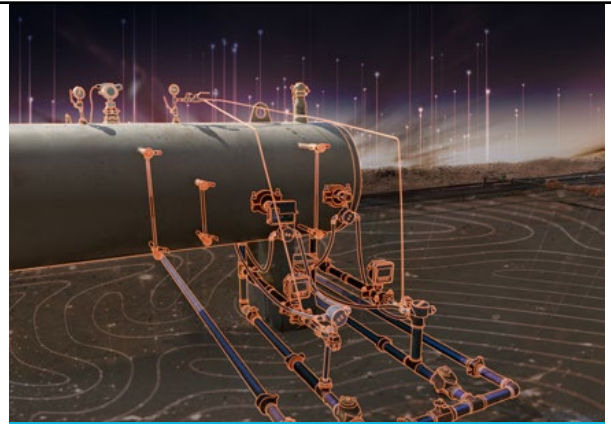


Laramie energy implements electric dump valves for environmental compliance and operational efficiency

RESULTS

- EPA and state regulation compliance
- Reduced methane emissions to zero
- Decreased maintenance needs significantly
- Improved wellhead pressure consistency
- Increased production by 5-10 MCF



APPLICATION

Managing separator emissions in oil and gas operations to meet environmental regulations, reduce methane leaks, and enhance production efficiency.

CUSTOMER

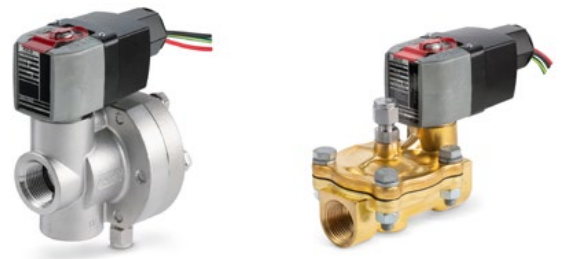
Laramie Energy is a Denver-based oil and gas company focusing on unconventional reserves in the U.S. Rockies, particularly in the Piceance Basin.

CHALLENGE

Laramie Energy faced new Colorado emissions regulations that required a significant reduction in methane emissions from its well sites. The company needed to find a way to minimize emissions from pneumatic components traditionally used in separators, which were a source of methane leaks. Additionally, compliance was critical to avoid substantial fines and operational costs associated with noncompliance, such as the \$900 per metric ton methane tax. This challenge necessitated a solution that would not only meet regulatory requirements but also enhance operational efficiency and reduce maintenance needs.

“Unlike the old-style pneumatic valves, our field operators don’t have to constantly adjust the electric dump valves.”

Lane Kizer
Automation Coordinator
Laramie Energy



SOLUTION

To address these challenges, Laramie Energy implemented ASCO™ all-electric solenoid dump valves on its separators. Unlike pneumatic valves that rely on natural gas and often lead to methane emissions, these electric valves not only eliminate the need for venting, they also do not require packing, ensuring zero fugitive emissions as well. The electric valves offer lightning-fast actuation times of 50 to 75 milliseconds, preventing gas blowby and ensuring precise control. This rapid actuation and reliable performance have significantly reduced maintenance needs and eliminated over-pressurization issues.

Furthermore, the valves have helped maintain tighter static pressure margins in wellheads, improving efficiency and increasing production by 5-10 MCF per site. The low power consumption and minimal current draw of these valves have also reduced the frequency of battery replacements and the need for additional solar panels. Even if environmental compliance was off the table, Kizer says the productivity and maintenance benefits of the electric dump valve have been well worth it. "Even if we didn't need to comply with anything, we would still use this solution in a heartbeat."

RESOURCES

www.Emerson.com/ASCO

Scan to learn more about how to tackle emissions challenges with electric dump valves:



"Having a tighter, more consistent static pressure range within the separators has allowed the wells to run more efficiently and has even increased production with an estimated 5-10 MCF depending on the production of the site."

Lane Kizer
Automation Coordinator
Laramie Energy

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