

Crude oil sampler drains faster with ASCO™ valves — saving end-users time and money

RESULTS

- Drained sampler in less than one second — much faster than competitive valve
- Improved sampler's field efficiency, saving time and expense
- Horizontal mounting enhanced system design and ergonomics
- Same-day shipping eliminated inventory



APPLICATION

Crude Oil Sampler

CHALLENGE

A manufacturer of oil field additive injection equipment was developing a new spring-loaded positive displacement crude oil sampler that utilized a piston/cylinder assembly. The technology offered several advantages over traditional diaphragm samplers. The stainless-steel construction resisted corrosion, a no-diaphragm design made it more rugged and versatile, and its piston/cylinder assembly improved accuracy. The company required a solenoid valve with a larger orifice and better design to enable the sample cylinder to drain in less than one second.

SOLUTION

The oil field equipment maker selected Emerson's ASCO Series 320 solenoid valve for its new crude oil sampler. The valve's 3/32-inch orifice enables the sample cylinder to empty in less than one second — four seconds faster than the competitor's product. The faster draining improved the sampler's efficiency in the field, saving the well operator time and money. In addition, the ASCO Series 320 valve could be mounted horizontally, permitting its installation on the sampler in an out-of-the-way location. The valve's reliability and availability through Emerson's same-day shipping program eliminated the customer's need to stock inventory. The manufacturer has been highly satisfied with the Emerson solution and is purchasing more ASCO products for additional projects.

Faster draining improved the crude oil sampler's efficiency in the field, thus saving the operator time and money.

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