

High flow control helps reduce nuisance shutdowns in oil refinery

RESULTS

- The replacement of 45 competitor valves with reliable ASCO™ models improved plant uptime
- Infrequent shutdown led to time and cost savings
- Valve reliability also improved overall plant and worker safety



APPLICATION

Automated fluid management systems

CUSTOMER

One of the largest oil refineries in the U.S. with an output of 268,000 barrels per day (bpd)

CHALLENGE

A large oil refinery was experiencing frequent downtime because of unreliable solenoid valves. Due to the refinery's demanding operating conditions, the incumbent valves frequently failed—causing the plant to halt its critical operations and driving up time and costs. The customer wanted to replace these troublesome components with a more reliable model that would keep downtime to a minimum.

SOLUTION

One of the refinery's engineers had previous experience with ASCO valves. This history, coupled with ASCO's superior product reputation, opened the door for Emerson experts to work alongside plant engineers to overcome their valve-related challenges.

45 of the refinery's incumbent valves were replaced with the ASCO Series 316 solenoid valve. Ideal for oil and gas applications, these valves meet UL, ATEX, CSA and SIL 3 standards for safety. They also integrate rugged brass and stainless steel bodies, watertight and explosion-proof enclosures and internal piloting—making this series ideal for large actuators and high flows.

Frequent valve failure was driving up time and costs. The oil refinery needed components that could keep up their output of 268,000 barrels per day.

Thanks to its combination of durability and reliability, the Series 316 successfully reduced the number of plant shutdowns, eliminating a major pain-point for the customer. Because frequent valve failure in oil refineries can have serious health and safety implications, these valves also improved the overall safety of the plant and its workers.

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