

Emerson Provides Fail-safe Actuation for Inlet Line Valve in West Texas of the United States

RESULTS

- Smart Bettis EHO provided reliable fail-safe operation
- Provided Emergency Shut Down(ESD) actuator when no reliable air supply was available



APPLICATION

An inlet line going into an oil and gas separating and processing facility requires a fail-safe actuator on its emergency shutdown valve.

CUSTOMER

An oil and gas exploration and production company in the West Texas of the United States.

CHALLENGE

Dependable Fail-safe Operation

The inlet line valve going to the facility requires a reliable fail-safe actuator in case an ESD event occurs. If the actuator fails to close the valve during an ESD event, a dangerous and hazardous situation can occur.

Reliable ESD Without Air Supply

Normally, this customer would use a pneumatic actuator when fail-safe operation is required. However, in this particular application, the air supplied to this facility was not clean and unreliable. The customer needed another solution to be able to provide ESD functionality to the inlet line valve.

SOLUTION

The Bettis Smart Electro-Hydraulic Operator(EHO) utilizes the Bettis G-series Hydraulic Actuator and the EIM TEC2000 electronic controls to produce an electro-hydraulic actuator that is reliable during ESD situations and also does not depend on air supply to operate.

Reliable Fail-Safe Operation

The Bettis Smart EHO utilizes the time tested, field proven Bettis G-series Hydraulic Actuator for its spring fail-safe stroke. The Bettis G-series Hydraulic Actuator uses state-of-the-art PowrSwivl™ and Acculine™ Drive Shaft technologies to reduce wear and increase reliability for its fail-safe operations.

“Emerson provided the reliable fail-safe Electro-Hydraulic Operator(EHO) for a remote shutdown valve where no clean air supply was available.”



ESD Without Air Supply

The Bettis Smart EHO does not require air supply to operate. It utilizes electro-hydraulic technology and only requires a power supply to operate. Paired along with the ever reliable spring in the Bettis G-series Hydraulic Actuator, the Bettis Smart EHO is able to provide the customer with ESD capability on the inlet line valve without ever having to worry about relying on an unreliable air supply for ESD. This should be a continuation of your Proven Results information about the project or technology.



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