

# Partial Stroke Test Solution for Performance and Profitability

## An Emergency Shutdown Valve Controller That Doesn't Disrupt Your Process

### PRODUCT



### Savings, Simplicity, Safety

- By enabling partial stroke tests (PST), the D-ESD saves up to 60 percent the cost of performing a full ESD test. It also reduces setup and restart times.
- The D-ESD is an all-in-one solution that requires no additional equipment to set up or operate. Features include an onboard Sensor Control Module for PST analysis and compatibility with the ASCO™ A/RCS.
- The D-ESD minimizes the probability of failure in high-integrity ESD valves and ensures that valves with sporadic operation will perform as expected in emergencies.
- This controller comes with global certifications and is approved to work in harsh environments.

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# Improve Plant Performance, Increase Profitability

Running mandatory full stroke tests for ESD valves involves shutting down the entire process. The D-ESD extends the time between these costly shutdowns—boosting your uptime. The D-ESD Valve Controller integrates partial stroke tests to ESD valves, extending the time between process disruptions and costly shutdowns while still maintaining the safety of your operation. This SIL-3 suitable solution lowers your insurance premiums and reduces the total cost of your operation to increase your savings.

## D-ESD Partial Stroke Test Distinctive Features

*Integrated solenoid and spool valve for PST function.  
Functions as simple retrofit for existing installations.*

*Adjustable target to set partial stroke travel range—providing control over the PST.*

*Available in aluminum or stainless steel. Certified for hazardous areas.*

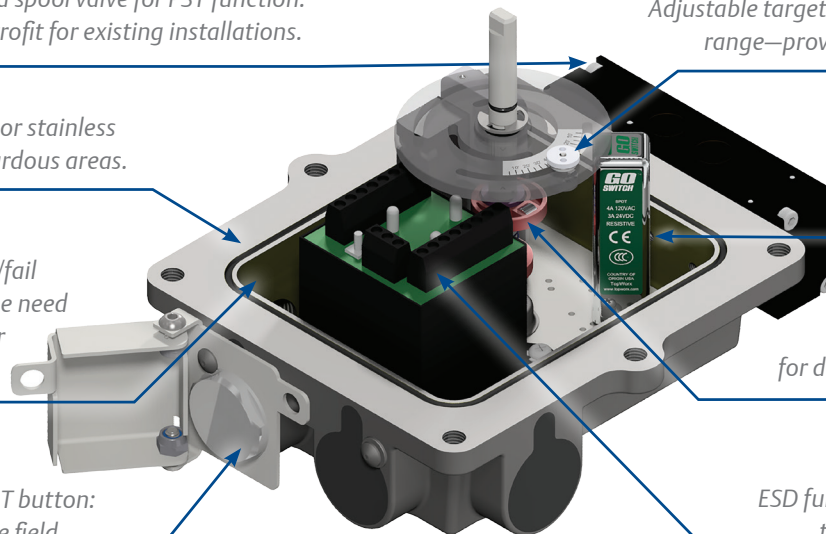
*Uses industry-leading GO™ Switch technology for maximum reliability.*

*Integrates simple pass/fail diagnostics without the need for complex training or interpretation.*

*Easily adjustable set cams for discrete position indication.*

*Integrated, lockable PST button:*  
- Performs PST from the field  
- Eliminates external wiring  
- Prevents tampering  
- Also available with remote PST activation

*ESD function overrides the PST in the event of an emergency.*



## Accessories Available

The D-ESD controller is available with a variety of accessories, including TopWorx universal mounting brackets, exhaust protectors and conduit plugs—enabling us to create the best configuration for your requirements.

For more information, visit: [www.emerson.com/topworx](http://www.emerson.com/topworx) or contact your sales representative.

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