

ACT LOCK

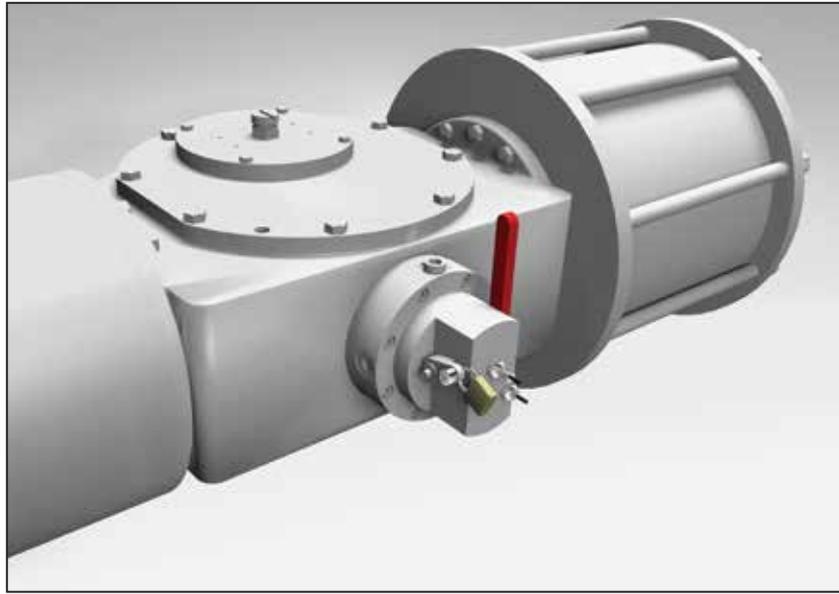
Patent Pending



V&A



Mainly emergency valves remain in their position and are just actuated in case of emergency. ACTREG ACTLOCK Partial stroke test (PST) allows to fully test all control elements involved in the emergency shut-down, as actuators, solenoids, lock up valves, filter regulators... etc. Partial stroke test is highly recommended in international standards IEC61508 & IEC61511 for testing all the ESDV, HIPPS or BDV valves at regular intervals. When PST is implemented correctly it provides an enhancement to the final elements (valves, actuators, solenoids...), by reducing its PFDavg (probability failure on demand average) contribution by 50% to the safety instrumented function (SIF). The new patented system ACTLOCK provides mechanical PST with fully automated system, reducing the overall dimensions for the final elements compared with other mechanical solutions and bringing more safety in all critical processes.



Vibration resistance IP67

MAIN CHARACTERISTICS

- ▶ Simple, integrated and 100% reliable mechanical solution
- ▶ Non complicated software, non fragile wiring or connections
- ▶ Robust and reliable. Vibration resistance. IP67 protection
- ▶ Build for the hardest environmental conditions
- ▶ Can be produced in Low carbon steel, Carbon steel or Stainless steel
- ▶ No overshoot or spurious travel due to mechanical stop
- ▶ Test for all final element loops, including solenoid valves, filter regulators and all ancillaries at real speed
- ▶ Suited for maintenance purposes with the possibility of changing ancillaries without interruption of the process
- ▶ Integrated feedback device
- ▶ Non commissioning or calibration routines
- ▶ 3 in 1 option: partial stroke test, locking device and automatic stroke limiter

Partial Stroke Test (PST)

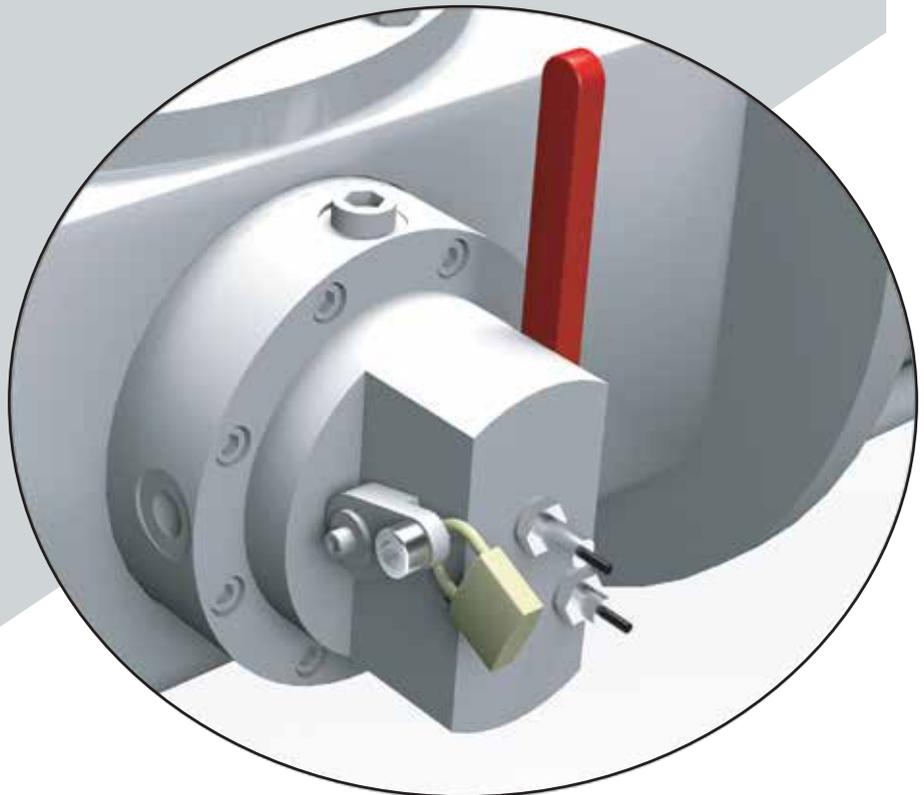
No risk OVERSHOOT

HOW IT WORKS

ACTREG ACTLOCK is a simple module attach to the actuator's body with integral mechanical stops. This mechanical stop can be actuated through a low pressure pneumatic line (minimum air pressure 3,5 bar or manually depending on the needs of each customer. When it is disengaged the valve will have free stroke on valve demand.

When we apply air pressure into ACTLOCK module, it will engage a mechanical stop that will act directly to the yoke. This module can be easily fitted from 5° to 30°. When air pressure is stopped, the internal safety springs will bring the mechanical stop to its initial position. In case an emergency shutdown appears in the middle of the partial stroke test, the safety springs will bring the module to the safe position.

SUITABLE for
SIL3 applications





ACTREG

The art of power and perfection



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& Automation**
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