

# Series 141 Advanced Redundant Control System (ARCS)

## PRODUCT



Stay ON Stay SAFE



## Features

- Complete Redundant Solenoid Valve Configuration (1oo2/ 2oo2/ 2oo3 architecture)
- Compact and Fully Integrated Module
- Direct Valve to Valve Design (significantly reduces points of failure & leakage paths)
- Status Indication & Feedback
- Unique Emerson Designed Individual Isolation Valve Feature (available also in/ with common bypass option)
- Safe & Proven Direct Acting Solenoid Valve Technology (SIL 3 capable)

## Description

Advanced Redundant Control System (ARCS) is a redundant solenoid valve solution designed for emergency shutdown valves applications. It is available in 1oo2, 2oo2 and 2oo3 configuration to meet the needs for safety and/or reliability requirements. The ARCS is a direct acting platform with advanced diagnostic capability and online maintenance features.

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## Advantages

- **Complete Redundant Solenoid Valve Configuration**

- 1oo2 / 2oo2 / 2oo3 redundant configuration to meet availability & reliability
- Increases safety reliability (1oo2)
- Increases operation availability (2oo2)
- Increase the safety reliability & operation availability (2oo3)

- **Compact and Fully Integrated Module**

- Supplied as ONE complete module with factory pre-test & as a single part number
- Saves space
- Ready to install
- Simplified ordering

- **Direct Valve-to-Valve Design**

- Eliminate pipework and fittings between the solenoid valves
- Minimizes leak paths
- Increased reliability
- Reduces Total Cost of Ownership (TCO)

- **Status Indication & Feedback**

- Facilitate preventive maintenance and online detection of faults
- Visual status indication via pressure indicators / pressure gauges
- Digital input feedback to control room via pressure switches
- Avoids costly shutdown

- **Stay ON Stay SAFE (Individual Isolation Valve / Common By Pass Options)**

- Allows online maintenance
- Allows emergency shutdown of the process valve in online maintenance mode
- Individual isolation valve option available for both 2oo2 & 2oo3 configuration
- Common by pass valve available for all 1oo2, 2oo2 & 2oo3 configuration

- **Safe & Proven Technology**

- ASCO™ 327 series 3/2 way direct acting solenoid valves are certified to SIL 3 capable (Exida & TÜV)

## Options Available

- 3/2 Way Direct Acting
- ¼" and ½" Port Size
- High flow & low temperature
- Full Flameproof (Ex d) or Intrinsically Safe (Ex ia) options (Flameproof or Intrinsically safe)
- Manual operator or manual reset function
- Full stainless steel visual indicator or pressure gauge
- Solenoid valve diagnostic: Pressure or GO SWITCH options
- Options with explosion proof and intrinsically safe wiring for pressure switches
- Material of construction available in both full stainless steel & aluminium options



**ASCO™** For more information:  
[www.Emerson.com/ASCO](http://www.Emerson.com/ASCO)

