ASCO™ Redundant Control System (RCS)

Fully assembled pilot valve system providing high process safety and reliability

PRODUCT

High process reliability while maintaining required plant safety levels.

- Solenoid valve availability is enhanced through automated on-line testing and diagnostic feedback from pressure switches or GO™ Switches fit for use in SIL 3 applications
- The RCS has been assessed per IEC 61508:2010 Parts 1-7 and meets requirements providing a level of integrity to:
  - Systematic Integrity: SIL 3 Capable
  - Random Integrity: Type A Element
- No single point of failure that could result in an unplanned closure of the process valve
- Automated on-line testing of solenoid valve and partial stroke tests. Full functional testing all the way through the RCS vent port
- Easy on-Line maintenance allows for quick, easy replacement of solenoid valves, coils, and pressure switches without process interruption
- 2oo2 and 2oo3 configurations available with or without diagnostics

Asco™

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SIL 3 Capable

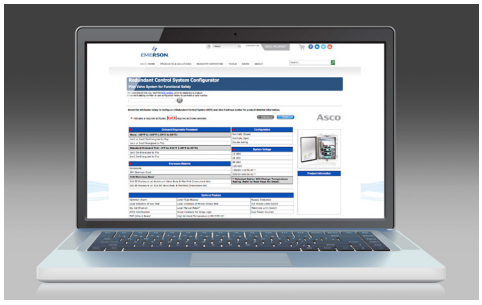
The RCS in 2oo2 and 2oo3 configurations is fit for use in SIL 3 applications per IEC 61508:2010 for low demand mode applications. Third party certified by Exida. For more information, consult the RCS safety manual.

The industry's best choice for process valve diagnostics and actuation

Typical process industry applications:

- Emergency Shut-down Systems
- Burner Management Systems
- Isolation and Venting Systems
- High Integrity Pressure Protection Systems (HIPPS)
- Flaring Systems

- RCS achieves a higher level of process safety and reliability by using a redundant, fault tolerant architecture, high diagnostic coverage, and automated testing.
- A pneumatic maintenance bypass allows for on-line maintenance of the RCS without process interruption.
- The RCS is available in a variety of constructions with and without valve diagnostics.



Click Here to use the online RCS configurator.

RCS Specifications	
Total weight:	2oo2D - 75 lbs (standard unit) 2oo2D - 120 lbs (unit w/stainless steel internals) 2oo3 Basic - 65 lbs 2oo3D - 106 lbs
Media	Dry instrument air
Filtration Requirement:	Dry instrument air, filtered to 40 microns (5 micron particulate and .3 micron coalescing filtration recommended)
Ambient Temperatures:	-40°F to 140°F (-40°C to 60°C)
Wiring:	Maximum wiring size 14 awg
Cv:	2oo2D: 2.0 2oo3 Basic: 3.0 2oo3D: 2.3 (typical Cv for NC constructions, Process to Exhaust)

ASCO™ For more information:
www.Emerson.com/ASCO

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