Redundant Control System (RCS)

The ASCO Redundant Control System (RCS) is a fully assembled pilot valve system that provides an economical solution to meet the need for high process reliability while maintaining required plant safety levels in a variety of process industries.

Applications

• Emergency Shutdown Systems
• Burner Management Systems
• Isolation and Venting Systems
• High Integrity Pressure Protection Systems (HIPPS)
• Flaring Systems

Features & Benefits

• New Optional Stainless Steel Construction
  • 316L Stainless Steel valves and pressure switches are suitable for use in corrosive environments
• No Nuisance Trips
  • Fault tolerant redundant solenoid valve architecture provides a system with no single point of failure that could result in an unplanned closure of the process valve
• Automated On-Line Testing
  • Solenoid valve and partial stroke tests
  • No bypassing required - full functional testing all the way through the RCS vent port
• High Safety Availability
  • Solenoid valve availability is enhanced through automated on-line testing and diagnostic feedback from pressure 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
• Easy On-Line Maintenance
  • Allows for quick, easy replacement of solenoid valves, coils, and pressure switches without process interruption