



# FCS SERIES

## Air-Spring Fail-Safe Systems

Safe. Effective. Reliable.

- Fail Open, Close, Last or Lock
- Suitable for All Types of Linear and 1/4-Turn Actuators
- Individually Designed to Meet Specific Requirements
- Engineering for All Types of Environments



## Safe. Effective. Reliable.

Cowan Dynamics air-spring systems provide a reliable solution for large or high-pressure valve applications in which conventional spring-return cylinders are not a mechanically or economically viable option.

Designed to trigger a fail-open, fail-close or fail-last condition in the event of loss of power, air supply, or both; fail-safe systems prevent unwanted system conditions from occurring during emergency situations.

**Custom-Made:** Each fail-safe system is engineered to meet your site-specific process control requirements and operating challenges

**Worry-Free:** Automated, fully integrated control elements ensure fail-safe protection with little or no maintenance

**Reliable:** Fully enclosed control panels withstand the harshest operating or environmental conditions

**Secure:** Panels can be padlocked to prevent unauthorized access

**Cost-Effective:** World-renowned for their durability, Cowan systems are built to provide years of service





### Basic Fail-Safe Systems

Basic air-spring systems include an air tank and pneumatic controls sized and configured to meet specific application needs.

- Air tanks are ASME stamped and available with 20 to 5,000 gallon capacity
- Components are selected based on site-specific requirements: available air pressure, temperature and pressure range, cycle time, number of actuators, number of strokes, etc.
- For harsh environments, the control instruments can be housed in a protective enclosure



### Boosted Fail-Safe Systems

Consisting of a basic system to which a Cowan A²A pneumatic booster is added, these systems are designed for applications in which the available air pressure is too low and where space for additional air tanks is limited.

- Cowan's A²A pneumatic boosters intensify the pressure of the available air supply without the need for additional mechanical or electrical input
- Available in 2:1, 3:1 or 4:1 ratios
- Do more with less: Smaller footprint of the entire fail-safe system allows users to reduce the actuator size by increasing the operating pressure

### Conventional System

- 785 lbs
- 400 gallon tank
- 30" x 30" footprint
- 20" Bore pneumatic valve actuator



up to **85%** Smaller  
 up to **45%** Lighter  
 up to **40%** Cost Savings

### The A²A System

- 430 lbs
- 60 gallon tank
- 20" x 20" Footprint
- 16" Bore pneumatic valve actuator

**Related materials**

Visit our website to download or request a printed catalogue.



**Solutions Include:**

**Valve Actuators**

**Fail-Safe Systems**

**Digital Process Control Panels**

**Pneumatic Process Control Panels**

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