

Valve Automation Solutions



Valve Actuation - Rotary

Cowan has built an international reputation on the quality of our products and their performance for the world's most challenging environments.



E²H90 Series Self-Contained Electro-Hydraulic Rotary Actuators

Operating Pressure: 3000 psi
Torques: Up to 4,000,000 in-lbs
Fail Last, Fail Close, or Fail Open
On/Off Service

Stand Temp: -40°C to 70°C



CRP Series Rack & Pinion Actuators *Double-Acting or Spring-Return* Torques up to 110,000 in-lbs Pressure Rating: up to 115 psi Fail Last, Fail Close, or Fail Open

Low Temp: -40°C to 80°C

Stand Temp: -40°C to 70°C

High Temp: -15°C to 150°C



CSY Series Pneumatic Rotary Actuators

Double-Acting or Spring-Return
Torques up to 2,500,000 in-lb
Operating Pressure: 40–100 PSIG
Low Temp: -40°C to 80°C

Stand Temp: -20°C to 80°C

High Temp: -20°C to 120°C



CGO Series Gas/Oil Rotary Actuators Electronic Line Break Protection Torques up to 4,000,000 in-lbs Supply Pressure: 5– 150 Bar Suitable for Rotary (Quarter-Turn) valves. Linear design also available.

Mounting & Control Solutions

We offer a wide range of options to facilitate both the valve adaption and the valve operation process.



C-PAC Module®: Cowan Pneumatic Actuator Control

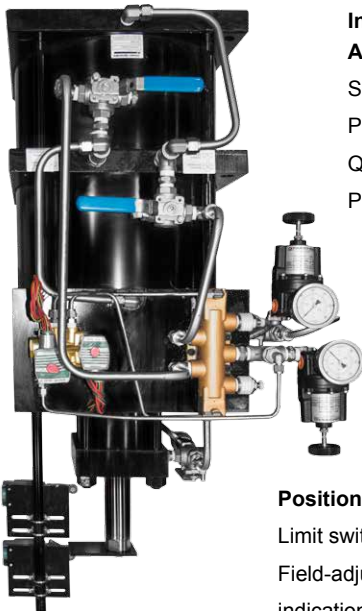
Revolutionize the way you configure actuator pneumatic controls.

Compact. Versatile. Simple. Cost Effective

- Cut down on reworking the “same-but-different” configuration every time
- Contains every foreseeable pathway for fail close, fail open, fail last and fail lock configurations
- Has ports for every possible component: quick exhaust, speed controls, fusible plugs, etc.
- Don't need a port? Leave it plugged
- Suitable for linear and 1/4-turn actuators
- Also available in Namur mount

Conventional Actuator Control Solutions

Conventional actuator control solutions are also available.



Integration of Control

Accessories:

- Solenoid Valves
- Pilot Valves
- Quick Exhausts
- Positioners

Position Feedback:

- Limit switches and position sensors
- Field-adjustable for open and close indication.
- Analog and digital feedback

Mounting Kits: ISO, MSS, & Customized Patterns Available

Cowan valve mounting kits can be designed for any linear valve. Mounting kits available in steel and stainless steel construction.



Anti-Rotation Torque Arm:

- Maintains constant alignment between valve stem and cylinder piston-rod
- Compatible with rotary type switch boxes and beacons

Field-adjustable travel stop:

- to limit stroke for position-seated or limited-travel applications.
- Ensures valve reaches positive sealing every time without damage to valve internals

Manual Overrides

Manual override options are available.



Screwjack with handwheel



Hydraulic manual override with indicator

A2A Booster: 250 psi Dual-Stage High-Output Pneumatic Booster

- Ratios 2:1, 3:1, and 4:1
- 125 psi max inlet pressure
- 250 psi max outlet pressure
- Low Temp: -48°C to 60°C



Valve Actuation - Linear

Cowan has built an international reputation on the quality of our products and their performance for the world's most challenging environments. Ask about our SIL 3 capabilities.



A Series
Pneumatic Valve Actuators
Double-Acting
Bore size: 4" to 42"
Piston rod diameter: 1" to 5½"
Thrust: Up to 425,000 lbs
Low Temp: -54°C to 90°C
High Temp: -10°C to 200°C



AS Series
Spring-Return
Pneumatic Valve Actuators
Fail-Close or Fail-Open
Thrust: Up to 72,000 lbs
Larger sizes available
3 week quick-ship option
Low Temp: -54°C to 90°C
High Temp: -10°C to 200°C



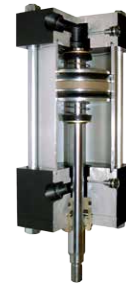
AT Series
Pneumatic Modulating Valve Actuators with Integral Position Transducer
Double-Acting or Spring-Return
Bore Size: 5" to 42"
Piston rod diameter: 1" to 5½"
Thrust: Up to 425,000 lbs
Low Temp: -40°C to 90°C
Stand Temp: -20°C to 90°C



MS Series
Hydraulic Spring-Return
Fail-Open or Fail-Close
Bore size: 1½" to 14"
Piston rod diameter: 1" to 7½"
Thrust: Up to 72,000 lbs
Low Temp: -54°C to 60°C
High Temp: -29°C to 205°C



ML Series: 3,000 psi
Hydraulic Valve Actuators
Double-Acting or Spring-Return
Bore Size: 1½" to 20"
Piston Rod Diameter: ¾" to 10"
Thrust: Up to 1.5 Million lbs
Low Temp: -54°C to 60°C
High Temp: -29°C to 205°C



P & V Series
High Pressure Air & Direct Gas Actuators
250 to 1200 psi Supply
Bore Size: 6" to 24"
Strokes up to 36"
Thrust: Up to 750,000 lbs
NACE available for Sour direct gas



E²H Series
Electro-Hydraulic Linear Valve Actuators
On/Off or Modulating Service
Stroke Range: Up to 36"
Thrust: Up to 125,000 lbs
Fail Last, Fail Close, or Fail Open
Low Temp: -50°C to 25°C
High Temp: -15°C to 40°C

Solutions for Demanding Applications:
Harsh Environments
Corrosion-Resistant
Submersible
High Speed and More!



CDA Series
Diaphragm Actuators
Direct or Reverse Acting Styles
Effective Diaphragm Area: Up to 217 in²
Stroke: up to 4.00"
Thrust: Up to 13,000 lbs
Pressure Rating: Up to 60 psi
Fail-Close or Fail-Open
Stand Temp: -40°C to 70°C



C6A Series
API 6A Hydraulic Actuators
250 to 1200 psi Supply
Nominal Pressure: 3000 psi/
5000 psi
Closing Time: ≤ 5s
Stand Temp: -40°C to 70°C

Fail-Safe Systems and Control Panels

We offer a wide range of valve automation control options including control panels, PLC panels and fail-safe systems.

Do more with less

A²A Systems are significantly smaller and lighter than a conventional air tank system. Below is an example of how air-assisted fail-safe systems which use Cowan's A²A pneumatic booster provide a more economical solution than a conventional air tank fail-safe system

Example:

Conventional System

- 785 lbs
- 400 gallon tank
- 30"x30" footprint
- 20" Bore pneumatic valve actuator



- upto **85%** Smaller
- upto **45%** Lighter
- upto **40%** Cost Savings

The A²A System

- 430 lbs
- 60 gallon tank
- 20"x20" Footprint
- 16" Bore pneumatic valve actuator

Related materials

Visit our website to download or request a printed catalogue.



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