

Service and support Toll-free: 855 341 3415 Actuation Solutions and Systems for the World's Most Challenging Environments

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

ESD Valve Rotary Electrohydraulic Actuator Self-contained E2H Torques: Up to 2,650,000 in-lbs On/Off Service Fail Last, Fail Close, or Fail Open Spring-return available Stand Temp: -40°C to 70°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



E2H-ESD

ESD Valve Rotary Electrohydraulic Actuator Self-contained E2H - Direct drive. 3,000,000.00 Lbs-in Hydraulic output. 306,000.00 Lbs-in Spring output. On/Off Service. Fail Last, Fail Close, or Fail Open. Standard (-20C to +40C) ; High (-20C to +55C) ; Low (-40C to +40C). Certified SIL 3 Capable

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.

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: 1¹/₂" to 14" Piston rod diameter: 1" to 7¹/₂" 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: %" to 10" Thrust: Up to1.5 Million Ibs 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





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

cowan dynamics



E²H Series

Valve Actuators

Electro-Hydraulic Linear

On/Off or Modulating Service

Stroke Range: Up to 36"

Thrust: Up to 125,000 lbs

API 6A Hydraulic Actuators 250 to 1200 psi Supply Nominal Pressure: 3000 psi/ 5000 psi Closing Time: ≤ 5s Stand Temp: -40℃ to 70℃ Solutions for Demanding Applications: Harsh Environments Corrosion-Resistant Submersible High Speed and More!

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-butdifferent" configuration every time
- Contains every forseeable pathway for fail close, fail open, fail last and fail lock configurations

Conventional Actuator Control Solutions

Conventional actuator control solutions are also available.



Site installation example of all accessories integrated with the CPAC Module.

- Solenoid Valves
- Pilot Valves
- Quick Exhausts

Position Feedback:

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

ZE-ESD Module

ESD Hydraulic manual system

- Automatic Emergency Shutdown
- ESD electric or pressure pilot signal
- Hydraulic manual pressurization
- Operating hydraulic normal
 pressure 1,500 psig
- To be used with our series of rotary or linear actuators



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

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



Hydraulic manual override with indicator

Manual Overrides

Manual override options are available.

Screwjack with handwheel

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.

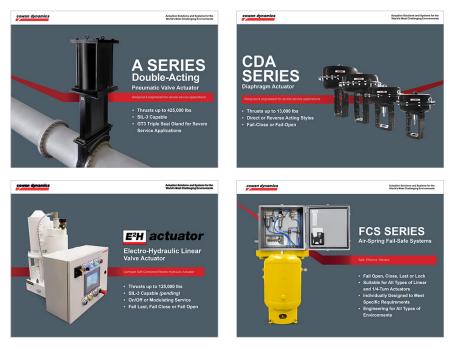
Do more with less

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.



Related materials

Visit our website to download or request a printed catalogue.



For sales and technical information, Contact us at:

Head Office/Factory: 6194 Notre Dame West Montreal, Quebec H4C 1V4 TOLL-FREE: 855-341-3415 info@cowandynamics.com

