

# CRANE VALVES NORTH AMERICA

## Automation Capabilities



**CRANE**

THE VALVE EXPERTS

Crane Valves North America provides a variety of valve automation products, including pneumatic and electric actuators, and gives you a single source for automated valve packages. Our team of actuation experts can help you solve your valve and actuation adjustment and control needs.

## ACTUATORS

### PNEUMATIC

- Rack and Pinion
  - Size Range: 1/4" - 48"
  - Torque: 30 in-lb to 107,531 in-lb
  - Spring Return (CW, CCW)
  - Double Acting
  - Direct Mount
  - Bracket Mount
  - Special Configurations
- Scotch Yoke
  - Size Range: 6" - 48"
  - Torque Range: 12,581 in-lb to 6,000,000 in-lb
  - Bracket Mount
  - Double Acting
  - Spring Return

### ELECTRIC

- Size Range: 1/4" - 16"
- Torque: 347 in-lb to 17,359 in-lb
- Temperature: 13°F to 150°F
- AC Voltage: 24,120 or 229 1 phase
- DC Voltage: 12 or 24
- Certifications: CSA-NRTL/C
- Direct Mount to Center Line Valves
- Special Configurations

## INSTRUMENTATION

### SOLENOIDS

- 3- and 4-way Configurations
- NEMA, UL, FM and Explosion Proof

### LIMIT SWITCHES

- Economy, Conventional and Explosion Proof

### POSITIONERS

- Pneumatic, Electric Versions Available
- Explosion Proof

### SPECIAL APPLICATIONS

- Speed Control
- Emergency Shut Down
- Lock Up
- Manual Override





**RACK & PINION AND SCOTCH YOKE**

Downtime means lost profits, so reliable automation is a key to maintaining optimum performance. Crane’s pneumatic actuators offer a number of features to assure reliable operation including a patented three-point guiding system and high precision machining for exceptionally close tolerances. These actuators can mount directly to Center Line valves, eliminating the added cost of a separate bracket and mounting kit.

**FEATURES**

- Aluminum alloy construction provides superior corrosion resistance and durability
- Available in single- and double-acting models
- Twelve sizes available with torques ranging from 30 in-lb to 107,531 in-lb (12 Nm to 4000 Nm)
- Patented three-point guiding system
- Precision machining for tight tolerances to minimize gear backlash
- Standard NAMUR accessory interfaces
- ISO 5211 mounting flange

**SPECIFICATIONS**

- Pressure:** 3 psi to 145 psi (0.2 bar to 10 bar)
- Temperature:** -4°F to 176°F (-20°C to +80°C)
- Materials:** Housing – aluminum alloy  
Shaft – hard anodized aluminum alloy
- Finish:** Two-component polyurethane
- Lifespan Standards:** Minimum of 500,000 cycles
- Quality Assurance:** DIN ISO 9001/EN 29001
- Mounting Flange:** ISO 5211
- Drive Connection:** ISO 5211 (DIN 3337 optional)
- Solenoid Connection:** VDI/VE 3845 (NAMUR)
- Positioner, Limit Switch Connections:** VDI/VE 3845 (NAMUR)

**INSTRUMENTATION OPTIONS**

- Solenoids**
- Limit Switches**
- Positioners**
- Special Applications**



## ELECTRIC ACTUATORS

With nearly maintenance-free operation, the Crane 44000 electric actuator is ideal for small to medium diameter valves in high frequency applications. These actuators allow precise positioning of the valve and provide modulating service as well as on/off. Maintenance is simplified because no lubrication service or changing of brakes is required. The Crane 44000 actuator mounts directly to Center Line valves and mounting to Flowseal valves is accomplished by using a separate mount kit.

### FEATURES

- Compact and lightweight
- Available for on/off or modulating duty
- All circuitry encapsulated to protect against moisture, heat and vibration
- Instantaneous motion stop circuit (modulating version) eliminates hunting and overrun and guarantees 250 steps over entire 90° range
- Self-locking final reduction worm gear holds last position if power is lost
- Valve position indicator built into actuator
- Maintenance-free design

### COMMON SPECIFICATIONS

- Power:** 120 VAC ( $\pm 10\%$ )
- Temperature:** -13°F to +131°F (-25°C to +55°C)
- Housing:** NEMA 4/4X
- Speed Range:** 13-50 sec./90°  
(depending on model)
- Condensation Protection:** Space heater equipped

### ON/OFF MODEL SPECIFICATIONS

- Torque Range:** 347 in-lb to 17,360 in-lb
- Duty Rating:** 50-100% (depending on model)

### MODULATING MODEL SPECIFICATIONS

- Torque Range:** 347 in-lb to 17,360 in-lb
- Output Shaft Resolution:** Over 1/250 for 0°-90°  
(Max. 1/400)
- Duty Rating:** 50-100% (depending on model)

### STANDARDS

- Quality Assurance:** ISO 9001
- Electrical Safety:** CSA C/US and CE
- Enclosure:** UL50 Type-4, 4X

### INSTRUMENTATION OPTIONS

- Solenoids
- Limit Switches
- Positioners
- Special Applications

## SOLENOIDS

- 3-way
- 4-way
- UL Listed
- FM Approved/Cenelec
- NEMA
- Explosion Proof



## LIMIT SWITCHES

### CLS Series

- Economical Resin Housing (CLSE Series)
- Stainless or Epoxy Coated Aluminum (CLSC Series)
- Explosion Proof Housing (CLSX Series)
- Visual and Remote Indication
- 2-wire ASi Interface
- NEMA 4, 4X Class I Division 2
- ATEX, Cenelec, UL and CUL Certifications
- Mechanical or Inductive Proximity Switches
- Wireless, Dribble Control Options



## POSITIONERS

### C100 Series – Positioners for Revo

- Single Cast Aluminum Housing for All Types
  - Pneumatic (C100P)
  - Electro-pneumatic (C100E)
  - Explosion Proof (C100EX)
- Powder-polyester Coated Housing
- Stainless Steel, Retained Fasteners
- NEMA 4X and IP66 Protection
- Available Drives: NAMUR, 1/2" Square and Others
- Maintenance-friendly Pilot Valve
- Simple Calibration – External Zero Adjustment

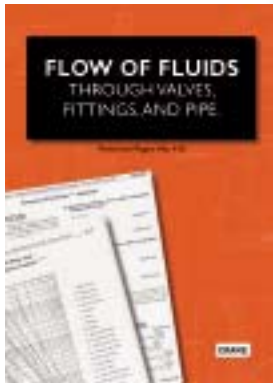


## CONTACT INFORMATION

### FOR TECHNICAL SPECIFICATIONS, PLEASE REFER TO:

Crane Revo – CV-204  
Crane Electric – CV-108  
Crane Positioners – CV-11  
Crane Limit Switches Coming Soon

### “WE WROTE THE BOOK”



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**CRANE**

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VISIT OUR WEBSITE FOR OUR FEATURED PRODUCTS.

[www.cranevalve.com](http://www.cranevalve.com)