

JCS Industries Inc.

Innovative Chemical Feed Solutions

ROBO-CONTROL®

OPERATION

The Model RC is an actuator that OPENS AND CLOSES the valve on compressed gas cylinders such as chlorine, sulfur dioxide, and ammonia cylinders and containers. The actuator is battery-operated with an electric motor that rotates the valve stem toward open or closed position for alignment, tests, and remote operation. The actuator is designed to mount without interfering with cylinder mounted hardware such as chlorinators, regulators etc. No yoke modifications or additional adapters are required. The motor, gears, and controls are assembled as one unit.

CAPABILITIES

- Battery operated with automatic charger
- No large signal cables
- Remote control by leak detector, panic button or other digital signals such as PLC or computer
- Easily attaches to valve
- Can be used on chlorine, sulfur dioxide and ammonia 150# cylinders and ton containers
- Eliminates the need for scrubbers in certain applications per the Uniform Fire Code

FEATURES

The system includes a remote power supply enclosure for trickle charge of the SLA battery. Engaging the actuator is accomplished by tilting the actuator, resting actuator on valve and repositioning to the same plane as the valve stem. Monitor and controls are accomplished with a microprocessor and integral LED lights for CLOSED, ALIGN, and OPEN. Setup is accomplished through an integral keypad. Valve position is transmitted to the microprocessor from a direct-coupled potentiometer.

ADDITIONAL INFO

For information on more actuators that open and close ton cylinders, refer to Specification Model 2000C and Model U.

For information on inexpensive leak detectors to interact with the actuators, refer to Specification JCS Model 4500

MODEL RC AUTOMATIC CLOSURE FOR CYLINDER AND TON CONTAINER



DETAILS

Enclosure	NEMA 4X
Battery	12/24-Volt SLA 7AH
Charger	120/240 VAC, 1 Amp
Indicator	Automatic Four LEDs
Inputs	Close from Remote Contact RF Open/Close from RCP
Remote	Battery and Charger (RSP006) Control Enclosure w/ transceiver
Rotation	Programmable up to 360 degrees
Materials	Polycarbonate, stainless steel, steel, brass, RF Nylon
Actuator wt.	6 Pounds
Torque	40 ft/pounds
Compatibility	Chlorine Institute 110 and Conforms to CI Publication

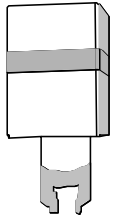
"RECOMMENDATIONS FOR EMERGENCY CLOSURE DEVICES FOR CONTAINER VALVES"

Technical Specifications for Model RC Actuator

A LIQUA FLOW PRODUCT

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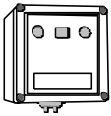
SYSTEM COMPONENTS



MODEL RC

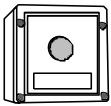
The Model **RC** actuator is packaged as an independent actuator that opens and closes the cylinder or container valve by using an integral membrane keypad. The actuator mounts to the valve independently from any hardware that may be mounted to the valve. A 30-foot, 4-wire shielded signal cable is included with an AMP connector that attaches to the actuator. The loose end of the cable is terminated in the Model RPS006 or RCP006RC for battery power and a close signal that is created by a remote contact from another device, such as a leak detector or panic button. The enclosure body can be rotated on the actuator base by 180 degrees to accommodate mounting two actuators on a ton container simultaneously. The gear drive alignment arm can be rotated in 90 degree increments to accommodate various mounting requirements. The Model RC shipping carton is 12" x 6" x 6", weighs 8 pounds, and includes actuator, 30-foot cable, storage bracket and instruction book.

ACCESSORIES



JCS MODEL 4500

The Model **JCS Model 4500** is a remote leak detector and is powered by a 120/240 source. The leak detector has a contact closure that will close all actuators if the ambient air contains chlorine or sulfur dioxide. Alarm points are adjustable in increments of 1 PPM from 1 to 10 PPM. The enclosure is NEMA 4X and includes a 4-20mA output, a power light, alarm light and acknowledge pushbutton to clear the output contact closure. Mounting holes and cable entries are created by the installer. The Model JCS 4500 weighs 2 pounds. The leak detector and instruction book are included.



MODEL RPB001

The Model **RPB001** is a remote pushbutton that can be used to close all actuators. It has one dry contact that can be connected to the LD terminals of the RPS006 or RCP006RC. Mounting holes and cable entries are created by the installer. The Model RPB001 with shipping carton is 7" x 7" x 7" and weighs 2 pounds.



MODEL RCP006RC

The Model **RCP006RC** is an optional control panel for Model RC actuators. This control panel has battery for Model RC, optional second battery for leak detectors, charger, and terminals for six actuators. The enclosure includes a power light, input/output isolation relay, and panic button for operator interface. As an option, this control panel can supply power for up to 10 Model RC actuators. The Model **RCP006RC** with shipping carton is 24" x 18" x 12" and weighs 26 pounds.

LK006 - U Clip Retainer required for each actuator on ton containers

BA012-7 - Spare Battery -12 Volts 7AH

BA012-5 - Spare Battery -12 Volts 5AH