

AUTOMATIC CONTROL FOR CYLINDER AND CONTAINER VALVES

OPERATION

The Model RC is an actuator that **OPENS AND CLOSSES** 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 adaptors are required. The motor, gears, and controls are assembled as one unit.

CAPABILITIES

- ◆ Battery operated with automatic charger
- ◆ NO large signal cables and can be radio operated
- ◆ 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 and sulfur dioxide 150# cylinders or 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 LD100.

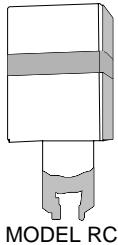


DETAILS

Enclosure	NEMA 4X
Battery	12-Volt SLA 7AH
Charger	120/240 VAC, 1 Amp Automatic
Indicator	Three 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"**

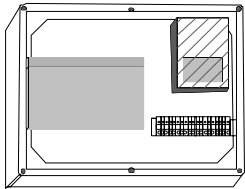
SYSTEM COMPONENTS



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 3-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 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. When remote open and close is required, the actuator can be modified with the RA901 radio transceiver kit to accept radio signals from the Model RCP016RF remote control panel. The kit and control panel must be purchased separately.

The Model RC shipping carton is 12" x 6" x 6", weighs 8 pounds, and includes actuator, 30-foot cable and instruction book.

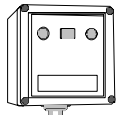


MODEL RPS006

The Model RPS006 is a remote power supply with automatic charger, 12 volt battery, and terminals to power up to six actuators. Terminals are also included for signal wire from remote dry contacts to close the actuators. The enclosure is NEMA 4X and includes a window to monitor the charger and battery condition. Cables for actuators are furnished with each actuator and are supplied with a CGB connector for sealed entry into this enclosure. Mounting holes and cable entries are created by the installer.

The Model RPS006 with shipping carton is 14" x 10" x 6" and weighs 9 pounds.

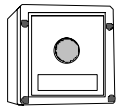
ACCESSORIES



MODEL LD100-0

The Model LD100-0 is a remote leak detector and is powered by the RPS006 battery that is used for the actuators. 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 7 PPM. The enclosure is NEMA 4X and includes a power light, alarm light, and acknowledge pushbutton to clear the output contact closure. Mounting holes and cable entries are created by the installer.

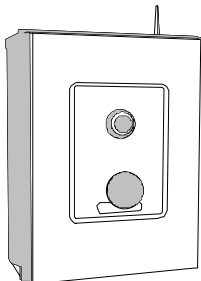
The Model LD100-0 with shipping carton is 7" x 7" x 7" and weighs 2 pounds. The leak detector and instruction book are included.



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. 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 RCP016RF

The Model RCP016RF is a remote control panel for radio control of all actuators. This panel must be used when radio control is desired. The control panel has battery, charger, transceiver, antenna and necessary program to operate up to 16 actuators. The Model RC actuators, actuator radio conversion kits (RA901), and actuator power supply (RPS006) must be purchased separately. The enclosure includes a power light and panic button for operator interface. The control panel has RS232 interface for connection to a PLC or computer.

The Model RCP016RF with shipping carton is 24" x 18" x 12" and weighs 26 pounds.

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

Spare Battery – 12 Volts 7AH

Radio Transceiver Kit for actuator – Includes wiring harness, transceiver, and antenna

Relay Kit – Relay and socket for adding isolated output contacts in RPS006

Pushbutton Kit – Pushbutton with contact block for adding Panic Button to RPS006