

ROBO-CONTROL

SPECIFICATIONS MODEL 2000C OPEN AND CLOSE

AUTOMATIC CONTROL FOR TON CYLINDER VALVES

OPERATION

The Model 2000C is an actuator system to automatically open and close the valve on chlorine or sulfur dioxide ton cylinders.

The system includes a battery operated actuator with 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 or requiring yokes or additional adaptors for dispensers or discharging hardware. The motor, gears, and controls are assembled as one unit.

CAPABILITIES

- ◆ Battery operated with trickle charge
- ◆ Optional integral leak detection for automatic shutdown
- ◆ Remote control by leak detector, panic button, or other digital signals such as PLC or computer
- ◆ Easy to install or remove
- ◆ Can be used on chlorine and sulfur dioxide containers
- ◆ Can be part of an automatic changeover system to permit only one container in service at a time
- ◆ 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 batteries. Placement of the actuator can be accomplished by connection to the cylinder valve with an easy on/off latch. Monitor and controls are accomplished through an on-board microprocessor with integral LED displays for CLOSED, ALIGN, and OPEN. The LED display enables the operator to easily read the condition when mounted outdoors with bright sunlight. Programming is accomplished through an integral keypad. Valve position is transmitted to the microprocessor from a direct-coupled potentiometer and displayed in Degrees Open.

ADDITIONAL INFO

Inputs for remote control include "open", "close", and "latch close". Outputs for remote indication can include "valve open", "valve closed", "leak", or "fail".

For information on actuators that open and close 150-pound cylinders, refer to Specification **Model U**.



DETAILS

Enclosure	NEMA 4X
Batteries	18 V NimH or 12 V SLA
Trickle Charge	120/240 VAC, .2 Amp
Indicator	Three digit .5" LED
Inputs	Maximum three
Outputs	Maximum four
Remote	Wired Power Enclosure
Rotation	Programmable up to 360 degrees
Materials	Fiberglass, stainless steel, steel, brass, RF Nylon
Actuator wt.	11 Pounds
Torque	20 ft/pounds for test 40 ft/pounds for safety close
Compatibility	Chlorine Institute 110 and Conforms to CI Publication "RECOMMENDATIONS FOR EMERGENCY CLOSURE DEVICES FOR CONTAINER VALVES"

Model Number Breakdown

MODEL NUMBER ITEMS AND OPTIONS					
A	B	C	D	E	F
2000C	-	-	-	-	-

ITEM	OPTION	DESCRIPTION
A STANDARD EQUIPMENT	2000C	Base price includes actuator with hardware to mount on ton cylinder, manual open and close, LED display for indication of closed, open, align, failed, and latched closed.
B REMOTE POWER	0	Integral power supply and 4500 mAH battery pack, no remote power supply, weight increases by 5 pounds.
	X	Specify number of actuators required. One remote power supply enclosure to be furnished to accommodate number of actuators. (Note 3 and Note 7)
C INPUTS	0	Standard with terminals for contact closure input, cable entry is CGB
	1	One, close receiver, RF
	2	Three, RF (Note 2 and Note 5)
	3	Three, wired with quick connect/disconnect (Note 2 and Note 6)
D OUTPUTS	0	Standard with None
	4	Four, RF (Note 5)
	5	Four, wired with quick connect/disconnect (Note 6)
E LEAK DETECTION	0	None
	1	Integral leak detector with automatic close (Specify chlorine or sulfur dioxide)
F REMOTE DEVICES	0	None
	1	Remote Transmitter with Panic Button (For one common input)
	2	Remote Control, RF, with Panic Button
	3	Remote Terminal Box with PB, HWT 008, (Note 3) Per eight actuators

*NOTE 1 - The term "Latched Closed" represents the action of the actuator after receiving a remote contact closure. The actuator closes the valve and will not respond to other signals until an acknowledgement is made on the actuator keypad.

*NOTE 2 - Integral leak detector is required for remote open option.

*NOTE 3 - Shielded cable furnished (30') and may be connected to PLC/RTU without Terminal Box

*NOTE 4 - Spares must be ordered separately and may include:

Part # LD001 - Chlorine Sensor, 100 PPM

Part # LD003 - Sulfur dioxide Sensor, 100 PPM

Part # BA018 - 18/10 Volt, 4500 mAH, NimH, battery pack

Part # FS001 - Fuse, (Package of 5)

*NOTE 5 - When RF inputs and outputs are required, select C=2 and D= 4.

*NOTE 6 - When wired inputs and outputs are required, select C= 3 and D=5.

*NOTE 7 - The remote power supply enclosure includes output relay for remote alarm signal, power and alarm lights.

Robo-Control Inc.
P.O. Box 1824
Bridge City, TX 77611
www.robo-control.com

Tel: (409) 697-2666
Fax: (409) 697-2668
Email: mail@robo-control.com