



The DHC positioner is a high performance, high resolution digital positioner. A simple three-button control is used to configure ALL parameters that the unit needs for a variety of applications, and eliminates the need for special meters and/or tools for calibration. As long as there is supply power, the unit can easily be field calibrated.

This positioner can be calibrated for various command types (such as 4-20 mA, 1-5 VDC, 0-5 VDC, 0-10 VDC or digital) and also the default operation upon loss of command (such as fail open, fail close, or fail as is). The optional transmitter/auxiliary limit switch module is installed into the positioner card via plug and socket. This allows a user defined feedback signal of current or voltage, and provides three SPST relay contacts for open position, closed position and a fault condition.

Series 92 Standard Features

- Reversing, brushless capacitor-run motor (120 VAC and 220 VAC)
- All 120 VAC and 220 VAC motors are CE compliant, and bear the CE mark
- Integral thermal overload protection for motor windings with automatic reset (120 VAC and 220 VAC)
- 50 - 100 percent duty cycle motor
- Permanently lubricated, Rockwell hardened solid alloy steel gearing
- Weatherproof enclosure rated Type 4X has a thermally bonded powder coat finish with SS trim
- ISO mounting configuration FO7/17mm star
- Two 1/2" FNPT conduit entry to eliminate cross feed between control, feedback, and power signals
- Highly visible beacon position indicator for positive position of valve, even at a distance
- Declutchable manual override: Pull up on indicator knob, insert 5/8" wrench onto flats and rotate in the appropriate direction (CCW for open/CW for close). Models with handwheel override do not require a wrench. Simply push down on handwheel until engaged with cam and rotate
- Series 92 actuators have an output torque range from 400 in./lbs. to 2,000 in./lbs.

Positioner Standard Features

- High resolution
- Simple push-button calibration
- Calibrated as standard or reverse acting
- Multi-meter not required for potentiometer calibration
- Control signal not required for calibration
- Options install into positioner via plug and socket
- Selectable fail position for loss of input signal; fail open, fail close, or fail as is
- Selectable input signal; 4-20 mA, 1-5 VDC 0-5 VDC, 0-10 VDC, or digital
- Loss of command and feedback potentiometer fault detection
- Motor stall detection will sense when the motor has reached a stall condition and remove power from the motor

Series 92 Engineering Specifications

Size: S92, A92, B92, C92

Torque: 400 in./lbs. - 2000 in./lbs.

Voltage: 120 VAC, 1-phase, 50/60Hz

Amp Draw: S92 = 0.5A

A92 = 0.8A

B92 = 0.5A

C92 = 1.0A

Duty Cycle: S92 = 100%

A92 = 75%

B92 = 100%

C92 = 50%

Conduit Entry: two 1/2" FNPT

Maximum Ambient Temperature: 150° F

Switches: two single pole, double throw (Two SPDT) , 15 Amp rated

Cycle Time per 90 degree: 15 seconds for S92 & A92*
32 seconds for B92 & C92*

*Cycle times are approximate.

Actuator/Positioner Options

- Voltages: 230 VAC, and low AC or DC
- Heater and thermostat
- Mechanical brake
- 4-20 mA output transmitter with three SPST relay contacts
- ModBus
- Local Remote Station (PK100)