

## **Stanley Door Systems**

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### **Models 460, 440 and 400 Swing Gate Operators**

The Stanley Swing Gate Operators Series have been designed with state-of-the-art technology to provide the utmost in reliability and dependability. They feature easy mounting and full systems capability. Each has a separate control box that can operate a single gate or pair of gates working in tandem.

#### **Features:**

Stanley's Model 460 hydraulic vehicular swing gate operator is ideal for many commercial applications. It is compact enough to fit on most gates and can be used on those gates that lack the space to place a traditional gate operator.

Operator mounts easily to the gate; separate control box can operate a single gate or pair of gates working in tandem. Full systems capability with manual release; easily adjustable limits and sensitivity. Easily accessible control box utilizes plug-in components and is designed for the easy installation of accessories; virtually noise-free, low maintenance with 1-year warranty. UL listed (complete operator).

#### **Specifications**

Model 460 Hydraulic Vehicular Swing Gate Operator shall have a 230 VAC 1 phase, 60 Hertz motor with current draw .7 amp, and 1700 R.P.M. Operator shall have a thermal overload of 135°C. The Operator unit shall have a maximum rod stroke of 11.5 in., rod speed .50-.60 in./sec.; and output force maximum of 1500 lbs. The Operator's maximum pressure shall be 450 per square inch with 2 integral/adjustable pressure valves. The Operator's opening time shall be 20 seconds (90° opening). The Operator's control box shall be rated NEMA 4. The Operator shall have integral mounting flanges for ease of installation, and have provisions for locking. The Operator shall have hydraulic locking in both directions. The Operator shall use "Shell LMH" hydraulic fluid. The Operator shall be UL/CSA listed.

- Applications: Medium commercial vehicular swing gates, with a maximum length of 12 feet and a maximum weight of 900 pounds. Maximum cycles per hour - 20. One cycle equals full open and full close.

- Construction: The model 460 is basically two primary components, the actuator arm and the controller. These two components are connected together using four (4) conductor, outdoor rated wiring cable. The actuator arm is approximately 3 1/2" x 3 1/2" square and 38" long. Its main construction materials are aluminum and "Hi-Impact" plastics. The controller is weather resistant. The controller is made from galvanized steel. The controller houses the power circuit board, micro circuit board and optional automatic time delay to close circuit board.

- Actuator Arm: Motor is an open construction, located in the housing containing the hydraulic fluid. It is 1700 R.P.M. @ 60 hz. and 1350 @ 50 hz. The hydraulic fluid used is Shell LHM, with a temperature range of -22 degrees F to +176 degrees F. Viscosity index of 250 minimum. Maximum stroke - 11.4". Maximum stroke speed .4" per sec. Maximum pump pressure -450 p.s.i. Maximum output force - 1500 lbs. Incorporates dual pressure halves and by-pass valve.

- Electrical: Primary voltage 115 vac., 1 phase, 60 hz. / Secondary voltage 24 vac / Power consumption - 345 watts (full load) / Current @ full load -1.5 A.

- Features: One controller can operate dual actuator arms. Virtually noise free. On-Off (vacation) switch. Sleek “European” styling. Plug-in componentry.

- Systems: The Model 460 is compatible with almost all types of access controls and safety management systems.

- Approvals: U.L. and C.S.A. listed.

### **Features:**

Stanley’s Model 440 hydraulic vehicular swing gate operator is ideal for many light commercial applications. It is compact enough to fit on most gates and can be used on those gates that lack the space to place a traditional gate operator. Its small size and sleek design allow it to blend into any landscape environment.

Operator mounts easily to the gate; separate control box can operate a single gate or a pair of gates working in tandem. Full systems capability with manual release

Easily adjustable limits and sensitivity; large controller (Part No. 24600) utilizes plug-in components and is designed for the easy installation of accessories. Small controller (Part No. 24997) will accept radio receiver only. Virtually noise-free; low maintenance with 1-year warranty. UL/CSA listed (complete operator)

### **Specifications**

Model 440 Hydraulic Vehicular Swing Gate Operator shall have a 115 VAC 1 Phase, 60 Hertz Motor with current draw of 3.5 Amp and 1700 R.P.M. Operator shall have a thermal overload of 135°C. The Operator shall have a maximum rod stroke of 8.6 in., rod speed of .50 in./sec; and output force maximum of 830 lbs. The Operator’s maximum pressure shall be 426 pounds per square inch with 2 integral/adjustable pressure valves. The Operator’s opening time shall be 18 seconds (90° opening). The Operator’s control box shall be rated Nema 4. The Operator shall have integral mounting flanges for ease of installation, and have provisions for locking. The Operator shall use “Shell LMH” hydraulic fluid. The Operator shall be UL /CSA listed.

- Applications: Light commercial vehicular swing gates, with a maximum length of 10 feet and a maximum weight of 500 pounds. Maximum cycles per hour - 10. One cycle equals full open and full close.

- Construction: The model 440 is basically two primary components, the actuator arm and the controller. These two components are connected together using four (4) conductor, outdoor rated wiring cable. The actuator arm is approximately 3 1/2" x 3 1/2" square and 32" long. Its main construction materials are aluminum and “Hi-Impact” plastics. The controller is available in two (2) styles, large and small. Both are weather resistant. The large controller is capable of handling more accessories. Both are made from galvanized steel. The controller houses the power circuit board, micro circuit board and optional automatic time delay to close circuit board.

- Actuator Arm: Motor is an open construction, located in the housing containing the hydraulic fluid. It is 1700 R.P.M. @ 60 hz. and 1350 @ 50 hz. The hydraulic fluid used is Shell LHM, with a temperature range of -22 degrees F to +176 degrees F. Viscosity index of 250 minimum.

Maximum stroke - 8.6". Maximum stroke speed .4" per sec. Incorporates dual pressure halves and by-pass valve.

- Electrical: Primary voltage 120 vac., 1 phase, 60 hz. / Secondary voltage 24 vac / Power consumption - 335 watts (full load) / Current @ full load -3.5 A.

- Features: One controller can operate dual actuator arms. Virtually noise free. On-Off (vacation) switch. Sleek "European" styling. Plug-in componentry.

- Systems: The Model 440 is compatible with almost all types of access controls and safety management systems.

- Approvals: U.L. and C.S.A. listed.

### **Features:**

The Model 400 AutoGate d.c. powered swing gate operator offers superb performance in light duty applications. It's compact enough to fit on most gates, and is an excellent choice for jobs in which traditional sized swing gate operators would be too large. For convenience, its 12 Vdc battery can take a charge from either a transformer or a solar panel.

Battery Powered: sealed lead acid 12 Vdc., 6.5 Ah battery supplied with built-in Trickle Charge Circuit: from either the plug-in step down transformer or solar panel.

Built-in Positive Limits: for full open and close positioning; built-in On/Off Switch: can be used to manually shut down the system. Hold Feature will enable the gate to be held in any position desired and will ignore any input signal or time delay to close.

Quiet Operation and Accepts Multiple Types of Controls: will work with one button control, three button control and external reversing devices such as photo beams, edges, etc. Transient Overvoltage "Spike" Protection; operator mounts easily to the gate. Built-in master slave capability with 1-year warranty. UL/CUL listed.

### **Specifications**

Model 400 "AutoGate" vehicular swing gate operator shall have a 12 Vdc. motor with a nominal operating current of 5.0 Amp. and 12,000 R.P.M. Operator shall have planetary gearing of 144:1 for speed reduction. The maximum stroke will be 10.0 inches with a nominal speed of .55 in./sec. The operators nominal opening time shall be 18 seconds (90° opening). The operator shall have positive full open and full close limits. The operator shall be able to observe and then react to obstructions in either the opening or closing directions. The operator shall be powered by a sealed lead acid battery with minimum rating of 12 Vdc./6.5 Amp. hour. The operator shall be able to trickle charge the battery from either a solar panel or a plug-in transformer. The trickle charge circuit shall be built into the operator's micro processor. The operator shall be U.L. listed.

- Applications: Light vehicular swing gates, with a maximum length of 10 feet and a maximum weight of 250 pounds. Maximum cycles per day - 25 (transformer)/18 per day (solar). One cycle equals full open and full close. For master/slave systems cycle rates will be halved.

- Construction: The model 400 is basically two primary components, the actuator arm and the controller. These two components are connected together using five (5) conductor, outdoor rated wiring cable. The actuator arm is approximately 3 1/4" x 3 1/4" square and 27" long. Its main construction materials are brushed aluminum and die cast. The controller is approximately 8" x

9", is non-metallic and is sealed for weather resistance. It houses the microprocessor, battery and optional radio receiver.

- Motor: 12 vdc. / 12,000 +/- 10% R.P.M. / current no load - 2A. / current average load - 4A.

- Battery: Sealed lead acid / Amp. hours - 6.5 / Maximum charging voltage - 13.7 vdc.

- Solar Panel (Option): Operating voltage - 16 vdc. / Operating current - 330 mA. / Peak wattage - 5.5 / Non-glass material / 14 1/2" x 15 5/8".

- Plug-in Transformer: Input voltage - 120 vac., 60 hz. / Output voltage - 12 vdc. / Output current - 1.5A.

- Features: Built-in trickle charge circuit. Positive limits. On-Off (vacation) switch. Transient overvoltage "spike" protected. Programmable - single or dual unit operation, automatic time delay to close, dual gate sequencing. Self Teach-N-Learn microprocessor - internal obstruction sensing (motor current monitor) and maximum run time automatic shut-off. Automatic low-voltage shut off (to protect battery). L.E.D. indicators for battery voltage, programming and charging circuit.

- Systems: The Model 400 is compatible with almost all types of access controls and safety management systems.

- Weight: Actuator arm - 16 lbs. Controller with battery - 11 lbs.

- Approvals: U.L. and C.U.L. listed.