

# Direct Coupled, Spring Return Actuators, 135 in-lb



## DESCRIPTION

Electronic, motor-driven, reversible, noiseless, direct coupled spring return actuators with fail-safe control.

**GA-SRPH135-024**  
**Spring Return**  
**0-135 Ω**

## APPLICATION

Actuators may be easily installed by direct shaft mounting on air dampers, shutters and butterfly valves in ventilation and air conditioning systems. The mechanical spring return function operates only upon a power failure or power interruption caused by an unsafe condition. Can be controlled by any compatible electric or electronic analog controller, DDC/PLC control or automation system.

## FEATURES

- *Direct coupled, easy to install*
- *Feedback signal*
- *Manual override*
- *Overload protected*
- *Tested for 60,000+ full operations including safety strokes for mechanical spring return*
- *Maintenance-free*
- *Five-year warranty*

CE  
 ISO 9001



## SPECIFICATIONS

### Control

Input signal Proportional  
 0-135 Ω Honeywell series 90,  
 or a 0-135 Ω input  
 Feedback signal 2-10 VDC, 0.5 mA

### Electrical

Power supply 24 VAC/VDC ± 20%, 50/60 Hz  
 Over voltage Up to 40 V, max. 5 sec.  
 Power consumption 7.0 W (9.0 VA)  
 - holding 4.0 W

### Performance

Torque 135 in-lb (15 Nm)  
 Damper size Up to 34 sq. ft. (3.0 m<sup>2</sup>)  
 Angle of rotation 100° (-5 to 95°)  
 - direction Spring return can be selected  
 by CCW/CW mounting

### Rotation time

- actuator rotation < 150 sec/0-90°  
 - spring return < 20 sec/90-0°  
 Power failure Spring return to -5° position

### Position indicator

Visual scale  
 Synchronization ± 1%  
 Overload protection Electronic throughout rotation  
 Manual override 3 mm hex crank, shipped  
 w/actuator

### Motor type

DC motor  
 Noise level  
 - motor Max. 50 dB(A)  
 - spring return Max. 62 dB(A)

### Environmental

Permissible ambient  
 - working temperature -22°F to 122°F (-30°C to 50°C)  
 - storage temperature -40°F to 176°F (-40°C to 80°C)  
 - humidity 5-95% RH, non-condensing

### Physical

Enclosure  
 - cover plates Zinc coated steel  
 - base PA 6.6  
 - color Silver and black  
 - protection NEMA 2  
 Mounting position Any position  
 Anti-rotation bracket Included w/actuator  
 Stacking/paralleling See table "Multiple Actuators"  
 Clamp connection to  
 - round shaft Ø 3/8" to 3/4" (9 to 20 mm)  
 - square shaft □ 3/8" to 5/8" (9 to 16 mm)  
 Wire connection 3 ft. (0.9 m) appliance cable,  
 number coded

### Wire connection

- option, on request Plenum rated cable  
 Wire size 18 AWG (0.75 mm<sup>2</sup>)  
 Conduit connector 1/2", built-in  
 Dimensions 9.84 x 3.86 x 2.28 in.  
 (250 x 98 x 58 mm)

### Weight

4.4 lbs. (2.0 kg)  
**Manufacturing**  
**Listings/Approvals**

### Warranty

ISO 9001 certified  
 CE  
 UL and CSA  
 Five-year material and  
 workmanship  
 (Two-year standard,  
 three-year conditional)

## ORDERING INFORMATION

**GA-SRPH135-024** Standard

