

SERIES 900 ELECTRIC SPRING RETURN ACTUATORS

Description

The SERIES 900 Actuators are direct mount, spring return electric actuators that operate with these available power options:

- AC 24 V at 50/60 Hz or DC 24 V
- AC 120 V at 60 Hz
- AC 230 V at 50/60 Hz

These bidirectional actuators do not require a damper linkage, and are easily installed on dampers with 1/2 to 3/4 in. or 12 to 19 mm round shafts, or 3/8 and 1/2 in. or 10, 12, and 14 mm square shafts using the standard shaft clamp included with the actuator.

A single SERIES 900 Electric Spring Return Actuator provides a running and spring return torque of 177 lb-in (20 N-m). Two or three models mounted in tandem deliver twice or triple the torque. Integral line voltage auxiliary switches are available on the 900 models to indicate end-stop position, or to perform switching functions within the selected rotation range.

Features

- available torques of 177 lb-in (20 N-m) for single actuators, 354 lb-in (40 N-m) for two models, and 531 lb-in (60 N-m) for three models mounted in tandem — offer a selection that is most suitable for the application
- reversible mounting design — simplifies installation and enables the actuator to spring return in either direction
- electronic stall detection throughout entire rotation range — extends the life of the actuator by deactivating the actuator motor when an overload condition is detected
- removable coupler — adapts to a shorter damper shaft
- integral 48 in. (1.2 m) halogen-free cables with colored and numbered conductors — simplify field wiring
- integral auxiliary switches (900 Models) — provide one fixed and one adjustable switch point with line voltage capability
- NEMA 2 (IP54) rated aluminum enclosure — protects the internal components of the actuator from dirt and moisture
- easy-to-use locking manual override with auto release and crank storage — allows for manual positioning of the actuator hub
- integral connectors for 3/8 in. flexible metal conduit — simplify installation and field wiring

Applications

The SERIES 900 Electric Spring Return Actuators provide reliable control of dampers and valves in Heating, Ventilating, and Air Conditioning (HVAC) systems. The SERIES 900 Actuators are available for use with on/off, floating, and proportional controllers.



Electric Spring Return Actuator
 SERIES 900

Repair Information

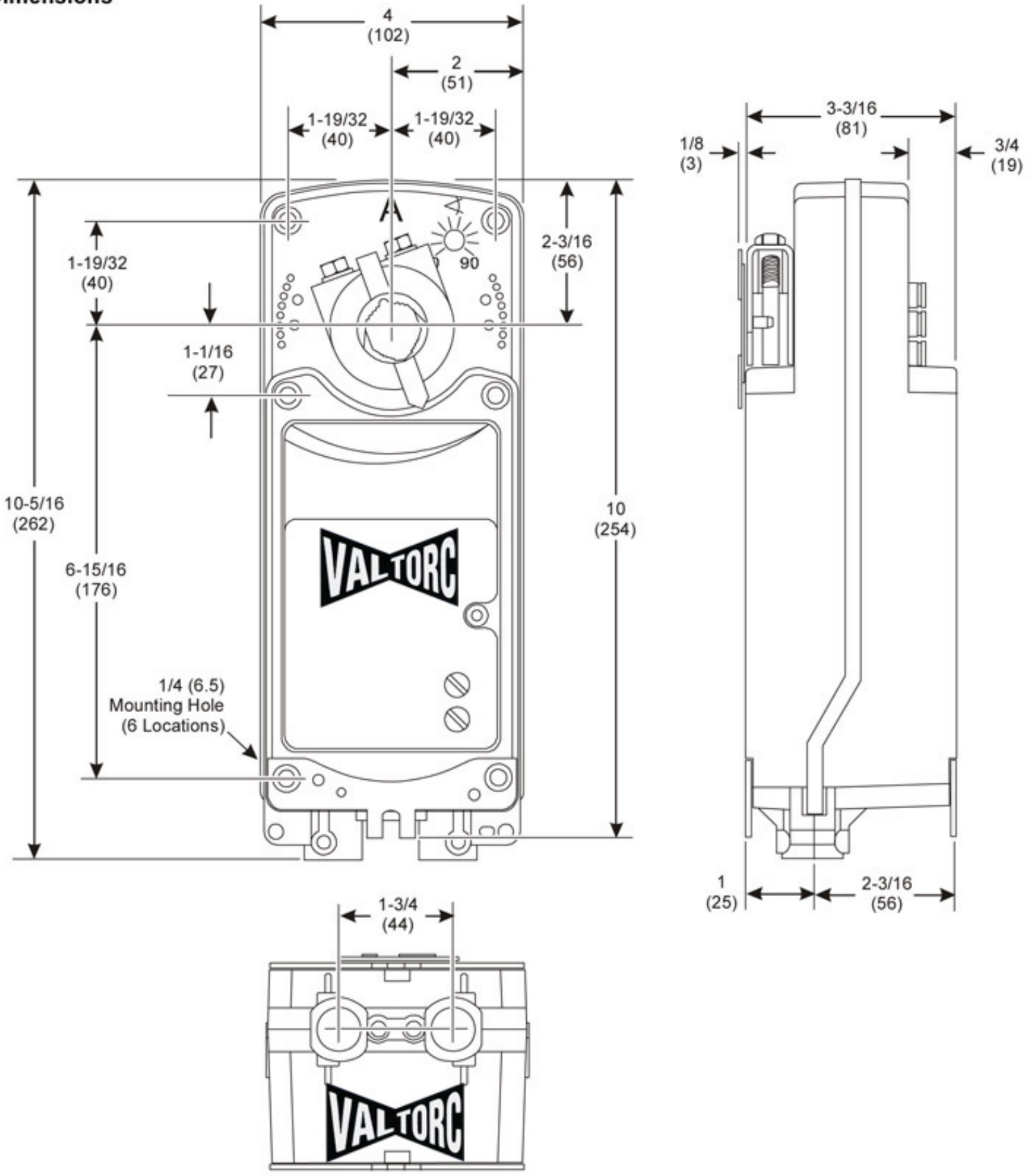
If the SERIES 900 Electric Spring Return Actuators fails to operate within its specifications, refer to the *Electric Spring Return Actuators Product Bulletin* for a list of repair parts available.

Selection Chart

| Code Number | Control Type | Auxiliary Switches | Power Requirements |
|-------------|---|--------------------|--------------------------------|
| 900-455 | Floating | None | AC 24 V at 50/60 Hz or DC 24 V |
| 900-763 | Floating | Two | AC 24 V at 50/60 Hz or DC 24 V |
| 900-775 | On/Off | None | AC 120 V at 60 Hz |
| 900-988 | On/Off | Two | AC 120 V at 60 Hz |
| 900-223 | On/Off | None | AC 230 V at 50/60 Hz |
| 900-909 | On/Off | Two | AC 230 V at 50/60 Hz |
| 900-009 | On/Off | None | AC 24 V at 50/60 Hz or DC 24 V |
| 900-004 | On/Off | Two | AC 24 V at 50/60 Hz or DC 24 V |
| 900-777 | Proportional | None | AC 24 V at 50/60 Hz or DC 24 V |
| 900-334 | Proportional | Two | AC 24 V at 50/60 Hz or DC 24 V |
| 900-885 | Proportional w/Adjustable Zero and Span | None | AC 24 V at 50/60 Hz or DC 24 V |
| 900-044 | Proportional w/Adjustable Zero and Span | Two | AC 24 V at 50/60 Hz or DC 24 V |

SERIES 900 ELECTRIC SPRING RETURN ACTUATORS

Dimensions



Spring Return Actuator Dimensions, in. (mm)