



PA2000 Series

Spring Return Direct Coupled
Actuators

Description

The PA2000 Series spring return direct coupled actuators are designed to be direct couple mounted over a damper or valve control shaft with the use of the universal mounting clamp. The angle of rotation is 95 deg. The compact size allows easy installation where space is limited.

The PA2000 Series features:

- Brushless DC motor
- Electronic overload protection throughout entire rotation
- NEMA 2 or NEMA 4 housing standard
- Compact housing requires limited space
- Constant running time, independent of torque load
- Manual positioning crank tool included as standard
- Direction of rotation switch L / R (CCW / CW)

Specifications

General

Direction of rotation: **Spring:** Mounting L / R (ccw/cw);

Motor: Selected by switch L / R (ccw/cw)

Lifespan spring: Min. 60,000 open-close operations

Manual override: Crank tool

Angle of rotation: Maximum 95deg

Universal mounting clamp: Self-Centering from \varnothing 3/8" to 3/4" and from \square 1/4" to 1/2"

Running time: Motor 90 s (+/- 5 %); Spring return 10 s

Position indication: Mechanical

Listings: UL873: C-UL; CE; Housing material: UL94-5V (flamability rating)

Environmental

Noise level: < 35dB (A)

Operating temperature: -22 to 122deg F (-30 to 50deg C)

Storage temperature: -40 to 176deg F (-40 to 80deg C)

Operating humidity: 5 to 95% RH

EMV by: EN50081-1 (Emission; EN 61000-3-2/-3 (Supply Feedback)

Electrical

Supply voltage: 24VA models: 24VAC, 50/60 Hz; 24VDC

120VA models: 120VAC, 50/60 Hz

Operating range: 24VA models: 20 - 29VAC, 21.6 - 36VDC **120VA models:** 90 - 264VAC

Paralleling: +/- 5 %Feedback signal: 0/2 to 10VDC (max. 0,9 mA) for 0 to 100 %

Electrical connection: Cable 3ft. 18GA, UL CL2P appliance cable, 1/2" conduit connector (plenum rating on some models)

Specifications subject to change without notice

Ordering Information

Part No.	Description
PA2000	Actuator, spring return, 26in-lb (3Nm), 24VAC, on/off, NEMA 4, non-plenum cable
PA2001	Actuator, spring return, 26in-lb (3Nm), 120VAC, on/off, NEMA 4, non-plenum cable
PA2002	Actuator, spring return, 26in-lb (3Nm), 24VAC, 3pt, NEMA 4, plenum cable
PA2003	Actuator, spring return, 26in-lb (3Nm), 24VAC, 0/2 to 10VDC, NEMA 4, plenum cable
PA2004	Actuator, spring return, 62in-lb (7Nm), 24VAC, on/off, NEMA 2, non-plenum cable
PA2005	Actuator, spring return, 62in-lb (7Nm), 24VAC, on/off, 2 aux. switch, NEMA 2, non-plenum cable
PA2006	Actuator, spring return, 62in-lb (7Nm), 120VAC, on/off, NEMA 2, non-plenum cable
PA2007	Actuator, spring return, 62in-lb (7Nm), 120VAC, on/off, 2 aux switch NEMA 2, non-plenum cable
PA2008	Actuator, spring return, 62in-lb (7Nm), 24VAC, 0 to 10VDC, NEMA 2, plenum cable
PA2009	Actuator, spring return, 62in-lb (7Nm), 24VAC, 0 to 10VDC, 2 aux. switch, NEMA 2, plenum cable
PA2010	Actuator, spring return, 132in-lb (14Nm), 24VAC, 0/2 to 10VDC, electric failsafe, NEMA 4, plenum cable

PA Series Accessories

PA1100	Crank arm, 4 inches
PA1101	Crank arm, 8 inches

Dimensions

Note: inches [mm]

PA2000 Series

