

ACT-FA-9001

Smart Actuator

Data Sheet



ACT-FA-9001

The ACT-FA-9001 Smart Actuator is a maintenance-free, fast-acting actuator that provides performance data and diagnostic information for Venturi air valves.

The ACT-FA-9001 features a brushless motor and patented Enerdrive fail-safe system. The actuator's quiet motor was designed to accommodate laboratory and hospital settings with exposed duct work for a more conducive work environment.

Performance data is retrieved through a pigtail communications pair, and the software enables you to harvest performance information like cycle counts, so that unstable control loops can be better tuned, creating longer product lifespans.

The ACT-FA-9001 is factory-calibrated and can also be used on Triatek's Venturi Valve Upgrade Kit to retrofit older, previously installed valves.


FEATURES INCLUDE

- Accessible performance data including cycle count tracking and diagnostic information
- Access window for easy connectivity to DIP switch
- Quiet, brushless DC-driven motor
- Contactless feedback position sensor
- Fast-acting 3 to 5 seconds
- Provides increased reliability
- Mounts easily onto valves
- Manual clutch with electronic disengagement of motor
- Maintenance-free
- Position indicator
- Fail-safe by Enerdrive system (US Patent #5,278,454)
- Auto-stroke on power up
- Connects into any building automation system with a 0-10V, 2-10V, 4-20V mA control signal
- $\pm 1\%$ positional accuracy

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ACT-FA-9001 Specifications	
Torque	50 in. lb. [5.6 Nm] at rated voltage
Holding Torque	50 in. lb. [5.6 Nm] at rated voltage
Running Time	3.5 to 4.5 seconds torque dependent
Optional Fail Safe (Enerdrive)	Default: fail open
Power Consumption	20VA / with fail-safe option: 24VA peak, 20VA
Power Supply	22 to 26 Vac; 28 to 32 Vdc; 50/60 Hz
Communication Connection (for performance data)	24 AWG twisted-shield cable (Belden 9841 or equivalent)
Electrical Connection	4-wire and 3-wire plenum cables (black) 22 AWG [0.34mm ²], 36" (90cm) long 2-wire plenum cable (black) 22 AWG [0.34mm ²], 9" (24cm) long
Control Signals	4-20mA, 0-10Vdc, 2-10Vdc, (DIP switch selectable) / 24Vac floating
Feedback Signals	4-20mA or 2-10Vdc (DIP switch selectable)
Angle of Rotation	0° to 90°, mechanically adjustable (default: 90° stroke)
Direction of Rotation	Reversible, CW: Clockwise, CCW: Counter Clockwise (default: CW)
Inlet Bushing	2 inlet bushings: 5/8" [15.9mm] and 7/8" [22.2mm]
Ingress Protection	IP22 equivalent to Nema type 2, IP54 equivalent to Nema type 3R if water tight inlet bushings (not supplied) are installed
Operating Temperature	0° F to +122°F [-18°C to +50°C]
Storage Temperature	-22°F to +122°F [-30°C to +50°C]
Relative Humidity	5 to 95% non-condensing
Weight	2.5 lb. [1.1kg]
Certifications	
Dimensions	A= 1.50" [38.1 mm] B= 3.26" [82.8mm] C= 6.60" [167.5mm] D=3.01" [76.4mm]

Product specifications are subject to change without notice. Triatek is a registered trademark of Triatek LLC. 100110

