

Smart Valve Positioner

The smart valve positioner utilizes a two-wire system for simultaneous power and signal transmission. It enhances control valve reaction speed and precision, especially in high-vibration environments, and can replace conventional explosion-proof positioners.



Overview

Smart Valve Positioner

This advanced smart valve positioner is designed to enhance the performance and accuracy of industrial control valves. By translating electrical signals into precise pneumatic outputs, it ensures the valve stem reaches the exact demanded position. The unit features robust self-diagnostic capabilities, HART communication support, and a ruggedized enclosure suitable for demanding industrial environments.

Electrical Specifications

Input Signal	4–20mA analog signal
Power Supply	24V DC
Input Loading Voltage	7V, 9V (with communication)

Performance Metrics

Core Performance Metrics

1 % Intrinsic Error	1 % Hysteresis	0.1 % Minimum Dead Band
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Air Consumption	4 NI/min
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Mechanical Specifications

Stroke Range	10–100mm
Turn Angle	60°–90°

Operating Environment

Enclosure Classification

IP65

Ambient Temperature	-40 to +80°C (Explosion-proof: -40 to +60°C)
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Certifications

Explosion-Proof Signs	Ex dIICT6, Ex iaIICT6
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