



Logix™ 3800e Digital Positioner

Precision valve control optimizes flow rates
and reduces operating costs



Experience In Motion



Logix 3800e digital positioner

Cost-competitive, highly reliable performance and one-button calibration

The Flowserve Logix 3800e positioner is a value-based, robust digital positioner engineered for unmatched performance for valve control and monitoring in oil and gas, petrochemical, and pulp and paper applications. Built on the same platform as the proven design of the Logix 3800 digital positioner from Flowserve, the Logix 3800e positioner is a cost-competitive, easy-to-use, high-precision unit that facilitates improvements in process uptime and yield at low costs.

Installation is simplified with easy configuration and calibration. The Logix 3800e positioner features a one-button setup, which automatically configures the zero, span and gain of the positioner for most valves in less than 60 seconds.

In addition, the Logix 3800e positioner supports a wide variety of double- or single-acting linear and rotary applications. It is compatible with Flowserve linear and rotary valves and actuators and enables easy retrofit to other manufacturers' control valve packages.

Robust and reliable

Trouble-free performance in demanding conditions is ensured by robust housings and a rugged, modular design that provides protection from dirt and water ingress (IP-66), impact and vibration.

Easy configuration and calibration

Innovative quick-calibration feature greatly simplifies commissioning. One-button setup automatically configures the zero, span and gain of the positioner for most valves in less than 60 seconds.

Application versatility

Broad application versatility and well-suited for use with flow-top valves and when explosion-proof design is required; compatible with industry-leading communication technologies, including HART, 4-20 mA or discrete I/O signals. Compatible with a variety of valve and actuation configurations, including any 24V-solenoid valve suitable for the application.

Asset health monitoring (condition monitoring)

The Logix 3800e positioner can be connected to the Flowserve Intelligent Performance Systems (IPS) suite of products, software and services to collect critical process data. Plant operators are empowered to make data-driven decisions and implement preventive actions that can increase equipment availability and minimize unplanned downtime.

Simplified upgrades

The Logix 3800e positioner is identical in form and fit to the Logix 3800 digital positioner, enabling easier upgrades from the Logix 3800e positioner to the Logix 3800 positioner when more analytics are needed.

Low procurement and operational costs

Cost-competitive, high-performance digital positioner designed for high reliability and performance.

Predictive diagnostics

The Logix 3800e positioner has a simplified diagnostic set compared to the Logix 3800 positioner for logging and pinpointing problems in the valve assembly.

The Logix 3800e digital positioner shares the rugged design of the proven Logix 3800 positioner along with its industry-leading levels of quality, simplicity and reliability.

To meet the needs for a cost-competitive alternative, Flowserve developed the Logix 3800e positioner with fewer diagnostic capabilities. For applications requiring a full range of diagnostics, specify the Logix 3800 positioner.

Multiple housing options for improved safety and economy

Explosion-proof or an intrinsically safe housing from -40°C to 85°C (-40°F to 185°F) ensures safe, reliable operation in hazardous conditions. Certified for use in explosion-proof Exd IIC hazardous locations. An economic housing is available with a plastic cover for general purpose applications.



Logix 3800e positioner with intrinsically safe housing with aluminium cover



Logix 3800e digital positioner in explosion-proof housing



Specifications and certifications

| Performance characteristics | Description |
|-----------------------------|--|
| Air capacity | 30.6 Nm ³ /h @ 4.1 bar (18 SCFM @ 60 psi) |
| Temperature range | -40°C to 85°C (-40°F to 185°F) |
| Linearity | +/-1.25% |
| Hysteresis | ≤ 1.0% |
| Sensitivity | ≤ 0.25% |
| Stability | ≤ 0.4% |
| Certifications | Description |
| Safety | ATEX, IECEx and FM/CSA explosion-proof, intrinsically safe, non-incendive, SIL 3 capable |
| Communications | HART 6 and 7, 4-20 mA |

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