



Logix™ 1500 Digital Positioner

Smart, compact flow control
for single-acting applications



Experience In Motion

Solving the toughest challenges in flow management

Industrial sites around the world trust Flowserve products for their proven performance, durability, and reliability in the most difficult fluid management applications. Our portfolio of pumps, seals, valves, and actuation is only part of the story. Our customers need answers that demand extensive know-how and experience, and we've got it. Thousands of committed associates are go-to resources for expert engineering, project management, technical support, and service in every corner of the world.



The Logix 1500 is a streamlined, compact smart positioner for single-acting applications.

Simply powerful: a compact, modular positioner with a simple user interface

Flowserve's Logix 1500 digital positioner provides an array of positioner functions in a compact package. Take advantage of Flowserve's renowned flow control solutions while enjoying ease of operation with the Logix 1500.

Choose between analog input and HART 7 communications to control the position of your valve, while the optional analog output allows you to monitor the actual position of the valve with precision.

Configuration packages allow you to customize your Logix 1500 digital positioner to your facility's needs. Easily switch between linear and rotary applications with a simple shaft change.

Select ½" NPTF or M20 conduits to match with the rest of your fixtures. Opt in or out of using gauges depending on your monitoring needs.

Exceeding industry standards, not budgets

Compact and Lightweight

The small size of this positioner means that it can fit in even the smaller control valve packages, allowing for ease of maintenance in the most crowded skids or inaccessible locations. The overall product design and engineering solutions maximize weight savings and it takes up less storage space.

Modular Design

This positioner was designed with modularity and customization in mind. Easily change out modular parts on this positioner without affecting certifications or impeding functionality, all without calling a service representative.

Simple Interface

The scroll-push button on the front of this positioner allows you to easily navigate the helpful LCD menu to configure your positioner and perform a quick calibration, even with safety gloves on.

Diagnostic Capabilities

This positioner functions with ValveSight DTM or RedRaven IOT to provide helpful basic diagnostic information and allow you to predict maintenance needs.

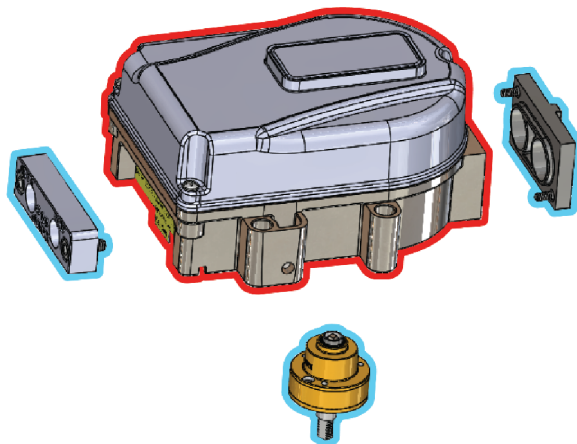
Hazardous Locations

Logix 1500 has been engineered to support a large variety of markets with both safe and hazardous areas in mind. The electronic board is certified to support intrinsically protection method to the highest certification level as for Ex ia IIC marking. The complete positioner is designed to support applications from -40°C to 85°C (-40°F to 185°F) to ensure safe and reliable operation.

Pneumatic Function

This positioner is equipped with a single-acting poppet-style relay with outstanding reliability and responsiveness.

Poppet style technology excel in applications requiring tight control and is less susceptible to dirt and debris. Their design enables swift actuation and a reduced stroke, making them ideal for situations where quick response is crucial.



- Base Positioner Unit
- Configuration Kit Parts

Base Positioners

The customizable base positioner allows you to get exactly what you want from a positioner.

Housing — Full aluminum enclosure for maximum resistance.

Communication — Maintain simple analog communication or add HART 7 for enhanced communication.

Analog Output — Opt in or out of having analog output in your positioner.

Configuration Kits

Multiple configuration kits allow you to have a positioner that changes as your facility's needs evolve.

Feedback Shaft — Equip a linear D shaft or a rotary Namur shaft.

Conduit Adapter — Use a 1/2" NPTF or M20 conduit adapter.

Air Connection — Enjoy 1/4" NPTF air connection or G 1/4 Pneumatic with or without gauges.

Simple, Secure Installation

• Fast

The Logix 1500 can attach directly to the actuator or valve body without needing external tubing, fittings, or bulky mounting brackets. Refer to the IOM for direct mounting kit options. This streamlined process allows for quicker setup, minimizing downtime and enabling faster deployment.

• Reduced Components and Weight

By integrating the positioner directly into the system, you decrease the number of required components, reducing the overall weight of the equipment, leading to potential cost savings in material handling and shipping.

• Lower Assembly Costs

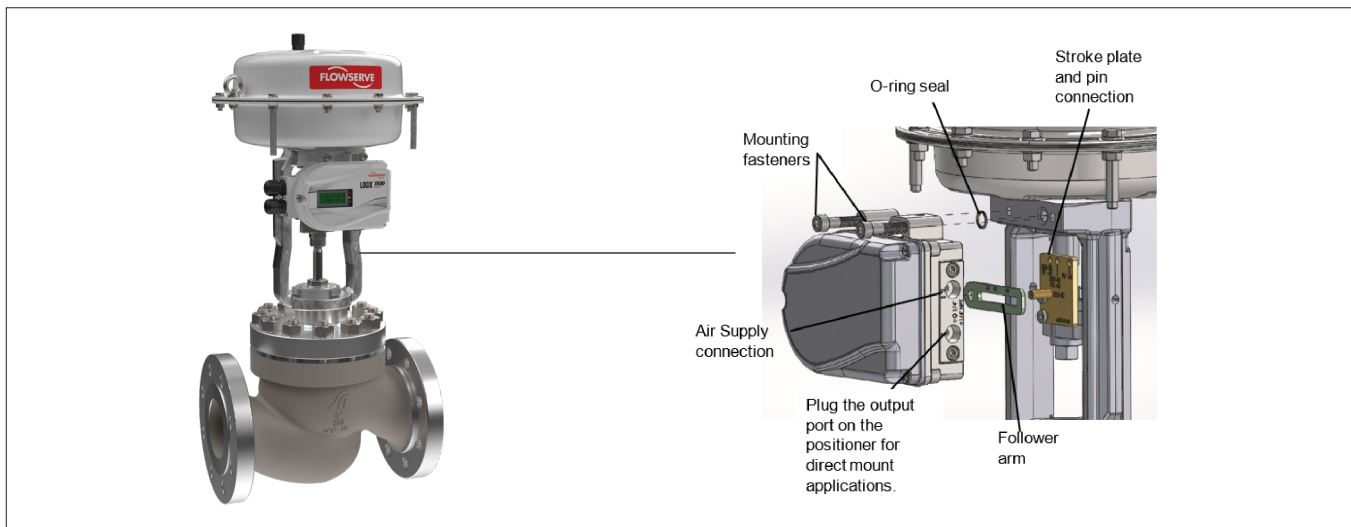
With fewer parts to manage and assemble, direct mounting cuts down on labor costs. The simplicity of the setup translates to less time spent on assembly, an important cost advantage.

• Minimized Potential Leak Points

Direct mounting reduces the number of connections and interfaces, minimizing potential leak points. This enhances system integrity and reliability, particularly important in applications where leaks could lead to safety hazards or expensive operational inefficiencies.

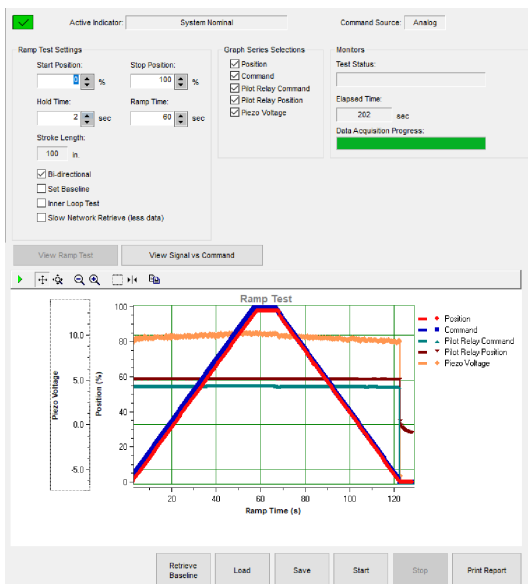
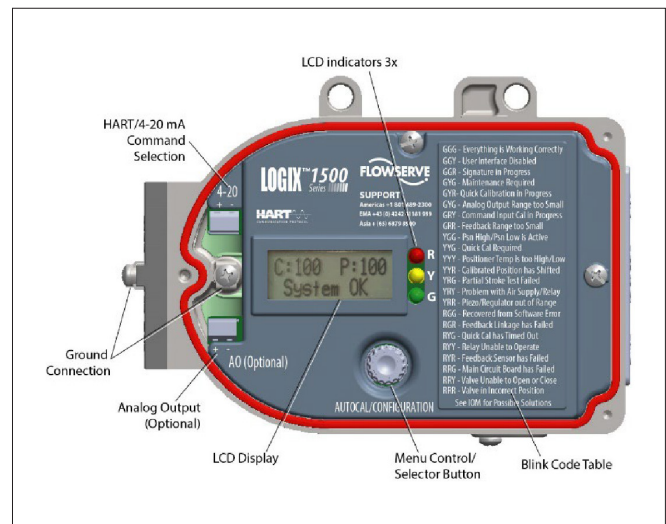
• Increased Robustness in High Vibration Environments

The secure attachment provided by direct mounting makes the positioner more resilient to vibrations and shocks, crucial in industrial settings where equipment is subjected to harsh conditions.



Designed for Straightforward Diagnostics

The Logix 1500 positioner is equipped with over 20 warning alarms designed to monitor and report on the health of your positioner and valve assembly. These diagnostics assess critical parameters to identify potential issues, reducing unexpected downtimes and minimizing risks. Alerts are clearly displayed on the annunciator panel, LCD screen, and through LED blink codes. The system automatically identifies root causes of issues, and health pages provide detailed information and solutions. Alarm settings can be easily adjusted for optimal performance.





Specifications and certifications

Performance characteristics*	Description
Resolution	$\leq 0.25\%$
Linearity	$\pm 1.25\%$
Repeatability	$\leq 0.25\%$
Hysteresis	$\leq 1.0\%$
Deadband	$\leq 0.3\%$
Sensitivity	$\leq 0.25\%$
Stability	$\leq 0.5\%$ for 5 minutes
Supply pressure effect	$\leq 0.20\%$ per 10 psi (0.69 bar)

Output air capacity	
Standard relay	12 SCFM 60 psi (Cv 0.47)

Air consumption	
Standard relay	0.05 SCFM 60 psi (Cv 0.008)

Temperature range	
Operating temperature	-40°C to 85°C (-40°F to 185°F)
Transport/Storage	-40°C to 85°C (-40°F to 185°F)

Hazardous area certifications

- Intrinsically safe: FM/CSA, ATEX, IECEx, CCOE*, INMETRO* and CCC*
- Non-Incendive: FM/CSA

*Certification in progress 1/26



Logix 1500 Base-Positioner Configurations

Selection	Description	Code
Base Model	Logix 1500 Series	15
Housing	Aluminum Enclosure	0
Communication	4–20 mA input – Analog Only	1
	HART 7	2
		-
Certifications	General purpose and Intrinsically Safe Protection Method (US/CAN, ATEX, IECEx, CCC)	14
	Intrinsically Safe Protection Method (US/CAN, ATEX, IECEx)	52
Communication	No Analog Output	0
	Analog Output	1
		-
Configuration Options	Base Positioner Unit without configuration kit	00
	Linear Shaft, ½" NPTF Conduit, ¼" NPTF Pneumatic, No Gauges	0A
	Linear Shaft, M20 Conduit, ¼" NPTF Pneumatic, No Gauges	0B
	Linear Shaft, ½" NPTF Conduit, ¼" NPTF Pneumatic, Gauges	0C
	Linear Shaft, M20 Conduit, ¼" NPTF Pneumatic, Gauges	0D
	Rotary Shaft, ½" NPTF Conduit, ¼" NPTF Pneumatic, No Gauges	0E
	Rotary Shaft, M20 Conduit, ¼" NPTF Pneumatic, No Gauges	0F
	Rotary Shaft, ½" NPTF Conduit, ¼" NPTF Pneumatic, Gauges	0G
	Rotary Shaft, M20 Conduit, ¼" NPTF Pneumatic, Gauges	0H
	Linear Shaft, M20 Conduit, G¼ Pneumatic, No Gauges	0J
	Linear Shaft, M20 Conduit, G¼ Pneumatic, Gauges	0K
	Rotary Shaft, M20 Conduit, G¼ Pneumatic, No Gauges	0L
	Rotary Shaft, M20 Conduit, G¼ Pneumatic, Gauges	0M

To learn more

For more details on the Logix 1500 positioner, visit flowserve.com/logix1500



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