



Logix™ Zero-Bleed Automation Package

Redefining low-bleed pneumatic control

Natural gas-driven pneumatic controllers are used widely in the oil and gas industry. Although these devices significantly improve process efficiency, they emit a small but continuous stream of gas — and represent the largest source of methane emissions from the U.S. oil and gas industry.

Zero-bleed, steady-state operation

The Logix Zero-Bleed automation package from Flowserve is different. This smart pneumatic control system requires zero pneumatic medium consumption — and therefore emits zero gas — during steady-state operation. It makes pneumatic process control simple, effective and environmentally friendly.

Meet emissions reduction requirements — The Logix 3800zb control unit and the solenoid valve system work together to ensure zero-bleed operation in a steady-state position.

Get configured-to-order functionality — The modular design of the automation package ensures that each one is configured to suit application and installation requirements, including electrical failure logic, actuator fail-safe/fail last actions and mounting orientation.

Reduce installation and commissioning costs — A remote feedback unit enables the automation package to be installed in a separate location, reducing weight on the valve assembly. A quick-calibration button on the control unit makes commissioning fast and easy.

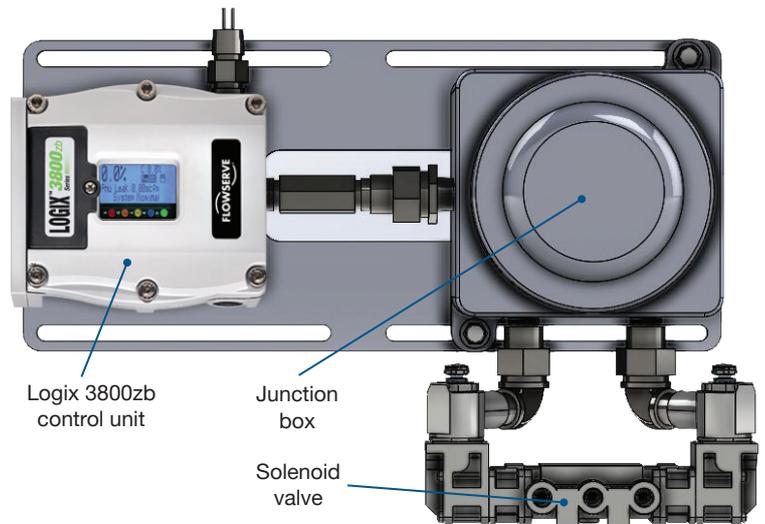
Ideal for midstream applications

- Pipeline transportation
- Export/import terminals
- Regasification plants

Performance characteristics*

Resolution	≤ 0.25%
Linearity	+/- 0.2%
Repeatability	≤ 0.15%
Hysteresis	≤ 0.4%

* Data refers to VL 100 linear actuator



Specifications

Input	4 to 20 mA
Additional power supply	24 VDC nominal
Operating temperature	-40°C to 60°C (-40°F to 140°F)
Max. digital output current	400 mA
Conduit entries	2 x 1/2 in. NPT
Mounting	5/16 UNC
Human interface	Local: LCD display Remote: HART communication
Hazardous area certification	FM explosion-proof, Class 1, Div. 1
Communication protocol	HART, ver. 7
Solenoid valve brand	Versa
Activator model	VXX-4323-316-H2-NGST-XXL-D024
SOV output port dimension	1/4 in. NPT
Output air capacity	1.8 Cv



Smarter pneumatic process control

The Logix 3800zb control unit is the heart of the Logix Zero-Bleed automation package. It enables operators to comply with environmental regulations while also reaping all the benefits of next-generation, smart technology.

Easy setup — Commissioning and operation are fast and easy with a quick-calibration button, auto-tuning functionality, and simplified interface that provides a full set of local controls plus remote management via the HART communication protocol.

Powerful diagnostics — On-board sensors and diagnostic capabilities enable operators to address developing problems in valves and actuators before a critical event causes unplanned downtime. Integration with our RedRaven predictive maintenance solution enables condition monitoring and advanced analytics.

Robust and reliable — Rugged design delivers maximum reliability in the toughest environments. In addition to simplifying maintenance, the modular enclosure provides protection from impact and vibration as well as dirt and water ingress (IP-66).

Flowserve Corporation
5215 North O'Connor Blvd.
Suite 700
Irving, Texas 75039-5421 USA

Flowserve Corporation has established industry leadership in the design and manufacture of its products. When properly selected, this Flowserve product is designed to perform its intended function safely during its useful life. However, the purchaser or user of Flowserve products should be aware that Flowserve products might be used in numerous applications under a wide variety of industrial service conditions. Although Flowserve can provide general guidelines, it cannot provide specific data and warnings for all possible applications. The purchaser/user must therefore assume the ultimate responsibility for the proper sizing and selection, installation, operation, and maintenance of Flowserve products. The purchaser/user should read and understand the Installation Instructions included with the product, and train its employees and contractors in the safe use of Flowserve products in connection with the specific application.

While the information and specifications contained in this literature are believed to be accurate, they are supplied for informative purposes only and should not be considered certified or as a guarantee of satisfactory results by reliance thereon. Nothing contained herein is to be construed as a warranty or guarantee, express or implied, regarding any matter with respect to this product. Because Flowserve is continually improving and upgrading its product design, the specifications, dimensions and information contained herein are subject to change without notice. Should any question arise concerning these provisions, the purchaser/user should contact Flowserve Corporation at any one of its worldwide operations or offices.

©2023 Flowserve Corporation. All rights reserved. This document contains registered and unregistered trademarks of Flowserve Corporation. Other company, product, or service names may be trademarks or service marks of their respective companies.

AIFLY000130-00 (EN/A4) June 2023