Foxboro B0123HE

Installation & Commissioning Guide

Foxboro B0123HE is an adjustable pressure regulator with filter for regulated instrument air. It operates with the pneumatic instrument supply line with the drain kept at the lowest point and provides one adjustable pneumatic outlet.

PRODUCT ROLE AND VERIFIED FEATURES

Feature 1

Provides one adjustable pneumatic outlet for its adjustable pressure regulator with filter function.

Feature 2

Handles regulated instrument air through the documented Foxboro system path.

Feature 3

Works with the pneumatic instrument supply line with the drain kept at the lowest point.

Feature 4

Clockwise knob rotation raises regulated pressure; counterclockwise rotation lowers it.

VERIFIED DATA SNAPSHOT

Service	Controlled air supply for pneumatic instruments
Maximum supply pressure	1.7 MPa (250 psi or 17 bar)
Flow capacity	33.6 m3/h at the documented supply and regulated conditions
Sensitivity	25 mmH2O (1 inH2O)

SYSTEM RELATIONSHIP

Instrument air → **Integral filter** → **Pressure regulator** → **Pneumatic instrument**

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Pre-installation readiness

READINESS GATE

Identity

Compare the complete marking with the approved work order and installed record.

System match

Confirm the receiving channel, mating components and controlled configuration.

Physical condition

Inspect mounting surfaces, connectors, terminals, cable and support hardware.

Work controls

Apply authorized isolation, bypass, access and restoration procedures.

TECHNICAL PROFILE FOR THE WORK

Service

Controlled air supply for pneumatic instruments

Maximum supply pressure

1.7 MPa (250 psi or 17 bar)

Flow capacity

33.6 m3/h at the documented supply and regulated conditions

Sensitivity

25 mmH2O (1 inH2O)

Integral features

Filter element, sump and drain

IMPORTANT NOTICE

Resolve every unmatched interface, configuration or receiving-system condition before removal or installation.

SOURCE AND WORK CONTROLS

Manufacturer source	Invensys Systems, MI 011-157, B0123HF and B0123HE Pressure Regulators and B1279UL Air Filter, October 2013.
Evidence boundary	Technical statements are limited to the identified product or applicable manufacturer family.
Selection control	Use the complete ordering string and verify the installed system before purchase or installation.

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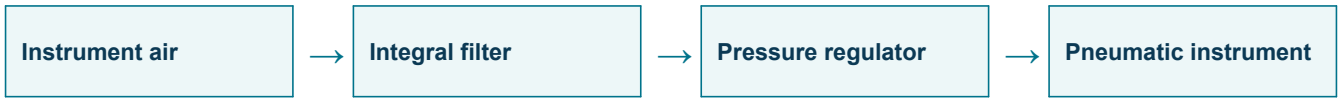
Installation sequence

CONTROLLED WORK STEPS

01	Match the complete B0123HE marking to the work order and installed position before removal.
02	Confirm the pneumatic instrument supply line with the drain kept at the lowest point before disconnecting any interface.
03	Keep regulated instrument air within the documented electrical or pneumatic range.
04	Record terminal designations, polarity, common, shield and cable routing before disconnection.
05	Inspect mounting, connector keying, terminal condition and retention hardware before installation.
06	Restore the controlled database, range, alarm, filter and fail-state settings before energization.
07	Review local indicators and controller diagnostics during the controlled startup sequence.
08	Prove the intended response across one adjustable pneumatic outlet and record the acceptance result before release.

CONNECTION RECORD

As found	Photograph and label every connection and installed orientation before removal.
Mechanical	Record mounting position, support, clearance and connector engagement.
Electrical	Record polarity, common, shield, channel assignment and cable route.
Configuration	Preserve approved settings, scaling, alarm logic and acceptance limits.
As left	Record the final physical condition and any controlled deviation.



WORK HOLD POINTS

Before removal	Identity, position, wiring, orientation and controlled settings recorded.
Before connection	Mating interfaces, condition and routing reviewed.
Before power-up	Mechanical work, wiring, shielding and configuration independently checked.
Before release	Static value, dynamic response and protection behavior accepted.

Commissioning and functional proof

COMMISSIONING SEQUENCE

Initial state

Observe status at power-up and check for unexpected fault or alarm indication.

Static value

Verify the expected bias, gap, loop, contact or channel value for the application.

Dynamic response

Apply the approved machine or test stimulus and confirm response and scaling.

Protection path

Verify the configured alarm, relay, data or receiving-system behavior.

APPLICATION-SPECIFIC EVIDENCE

System maintenance

Restores the documented adjustable pressure regulator with filter function in an existing Foxboro control system.

Signal-path service

Supports controlled testing of regulated instrument air at the assigned system position.

Planned replacement

Provides an exact-identity replacement path after the pneumatic instrument supply line with the drain kept at the lowest point has been verified.

Commissioning

Allows the responsible engineer to prove configuration, diagnostics and response for one adjustable pneumatic outlet.

ACCEPTANCE RECORD

Identity	Complete marking and final installed position recorded.
Physical inspection	Mounting, connectors, terminals and routing checked.
Channel status	Expected status and configured measurement confirmed.
Functional test	Required output or protection response demonstrated.
Restoration	Bypasses removed and operating state approved.

COMMISSIONING QUESTIONS

What distinguishes Foxboro B0123HE from B0123HF?	B0123HE includes an integral filter element and drain feature; the control ranges are otherwise the same.
What is the maximum documented supply pressure?	The instruction specifies 1.7 MPa, equivalent to 250 psi or 17 bar.

Release record and technical references

CLOSEOUT QUESTIONS

How should the regulator be oriented?	It may be installed vertically or horizontally provided the drain remains at the lowest point.
How is the regulated pressure increased?	Turn the adjustment knob clockwise to increase pressure.
When should the integral filter be serviced?	Clean the filter element periodically after isolating the air supply and draining condensate.
Which ports must be checked during installation?	Confirm that the IN and OUT ports agree with the actual supply and regulated-air piping.
What must be done before removing the cover screws?	Back off the pressure-adjusting screw counterclockwise to unload the range spring.
What proves correct operation after maintenance?	Restore air gradually, set the required pressure and verify stable regulation with no leakage at the sump, drain or piping.

RELATED MODELS FOR INSTALLATION PLANNING

Bently Nevada 330879-03-00	Installation-planning reference. Review the complete ordering string before selection.
Bently Nevada 330851-02-000-080-90-01-05	Installation-planning reference. Compare the required interface and system position.
Bently Nevada 330851-02-000-040-10-00-05	Installation-planning reference. Confirm the execution independently for the intended task.

MANUFACTURER SOURCE AND FINAL CONTROL

Manufacturer source	Invensys Systems, MI 011-157, B0123HF and B0123HE Pressure Regulators and B1279UL Air Filter, October 2013.
Evidence boundary	Technical statements are limited to the identified product or applicable manufacturer family.
Selection control	Use the complete ordering string and verify the installed system before purchase or installation.

IMPORTANT NOTICE	Release the equipment only after the responsible site authority accepts the recorded result.

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