Foxboro B0123HE

Complete Product Information

Foxboro B0123HE regulates instrument-air supply pressure and adds an integral filter element plus a drain feature for pneumatic service.

WHAT THIS PRODUCT DOES

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 characteristic 1

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

Product characteristic 2

Handles regulated instrument air through the documented Foxboro system path.

Product characteristic 3

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

Product characteristic 4

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

PRODUCT-PAGE TECHNICAL 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)

IMPORTANT NOTICE

Use B0123HE only with the pneumatic instrument supply line with the drain kept at the lowest point; verify every interface and the controlled project configuration before energizing or pressurizing the subsystem.

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Features and technical data

TECHNICAL DATA SHOWN ON THE PRODUCT PAGE

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

FEATURE INTERPRETATION

Product identity

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

System role

Handles regulated instrument air through the documented Foxboro system path.

Service context

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

Return-to-service focus

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

SIGNAL OR CONTROL PATH

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

The adjustable pressure regulator with filter belongs in the controlled Foxboro architecture and works with the pneumatic instrument supply line with the drain kept at the lowest point. Its mating hardware, wiring, database configuration and final response must be checked together before release.

PRODUCT-PAGE TECHNICAL 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.
How should the regulator be oriented?	It may be installed vertically or horizontally provided the drain remains at the lowest point.

Common applications

The application groups below reproduce the model-specific uses presented on the product page and connect each use to a practical verification point.

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.

APPLICATION VERIFICATION MAP

System maintenance	Confirm the documented system position and the required operating function.
Signal-path service	Compare the restored connection or control path with the approved record.
Planned replacement	Check the physical interface and the retained configuration before startup.
Commissioning	Record diagnostics and the final controlled response before release.

INFORMATION CARRIED INTO THE WORK RECORD

Identity record

Complete marking and assigned system position.

Connection record

Connector, conductor and interface arrangement as found.

Configuration record

Controlled settings, application data and option state.

Acceptance record

Observed status, response and release decision.

IMPORTANT NOTICE

Use the complete product identifier for every application review; a related product link is not evidence of interchangeability.

APPLICATION 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.

Product precautions and questions

EIGHT MODEL-SPECIFIC PRECAUTIONS

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.

FREQUENTLY ASKED TECHNICAL QUESTIONS

What distinguishes Foxboro B0123HE from B0123HF?	B0123HE includes an integral filter element and drain feature; the control ranges are otherwise the same.
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How should the regulator be oriented?	It may be installed vertically or horizontally provided the drain remains at the lowest point.
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RELEASE CHECKLIST

Identity accepted	The complete product marking and assigned system position agree.
Interfaces accepted	Connections, retention and controlled configuration match the recorded condition.
Response accepted	Diagnostics and the intended technical response have been documented.

FAQ, source record and related models

ADDITIONAL TECHNICAL QUESTIONS

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.

MANUFACTURER EVIDENCE RECORD

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.

RELATED MODELS ON APTERPOWER

Bently Nevada 330173-00-05-10-02-00	Related product reference. Review the complete ordering string before selection.
Bently Nevada 330800-28-45-020-03-02	Related product reference. Compare the required interface and system position.
Bently Nevada 24701-28-05-XX-023-04-XX MOD:323933-30-02	Related product reference. Confirm the execution independently for the intended task.

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