Foxboro B0123HE

Official Technical Reference Excerpt

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

VERIFIED PRODUCT ROLE

Characteristic 1

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

Characteristic 2

Handles regulated instrument air through the documented Foxboro system path.

Characteristic 3

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

Characteristic 4

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

MANUFACTURER DOCUMENT

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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Instruction

MI 011-157
October 2013

B0123HF and B0123HE Pressure Regulators

and

B1279UL Air Filter

invensys
Foxboro®

Introduction

These regulators provide controlled air service to pneumatic instruments. The regulator regulates a maximum supply pressure of 1.7 MPa (250 psi, 17 bar or kg/cm^2) to the nominal levels required by pneumatic instrumentation.

General

The B0123HF and B0123HE regulators have identical control ranges and are similar in construction, except that the B0123HE has an integral filter element and drain feature.

Specifications

Supply Pressure	1.7 MPa (250 psi, 17 bat or kg/cm^2)
Flow Capacity at 700 kPa (100 psi, 7 bar or kg/cm^2) supply. Regulated to 140 kPa (20 psi, 1.4 bar or kg/cm^2)	33.6 m^3/hr
Sensitivity	25 mmH_2O (1 inH_2O)

Installation

Part No. B0123HF Regulator

Refer to DP 011-158 for overall dimensions. The B0123HF can be supported by the supply and regulated line piping, or panel mounted. Panel mounting is accomplished by utilizing the two 0.190-24 tapped holes in the top of the regulator. When installing regulator, care should be taken that the IN and OUT ports are correctly oriented for the piping.

Part No. B0123HE Regulator

Refer to DP 011-157 for overall dimensions. The regulator should be installed as near as possible to the instrument it is to service. It can be installed either vertically or horizontally, provided the drain remains located at the lowest point on the assembly. The regulator has two 8 mm (0.320in) diameter holes passing entirely through the body for mounting on a suitable bracket, or it can be supported by the supply and regulated line piping. It also has two 0.190-24 tapped holes in the body for mounting to a panel.

Operation

To increase pressure, turn the regulator adjustment knob in a clockwise direction. To decrease pressure, turn the adjustment knob in a counterclockwise direction.

Part No. B0123HE Regulator

Periodic cleaning of the filter element is recommended. Shut off the air supply and drain condensate.

1. Remove the large bolt from the bottom of the regulator and remove sump.
2. Lift out the filter element. Clean all parts thoroughly and reassemble in reverse order of removal.

   Repair Kit, Part No. B0127VS, available from Foxboro, contains a replacement diaphragm and a pintle valve and spring. Repair Kit, Part no. B0127VT, contains a resealing gasket, sump bolt washer, and a replacement drain valve.

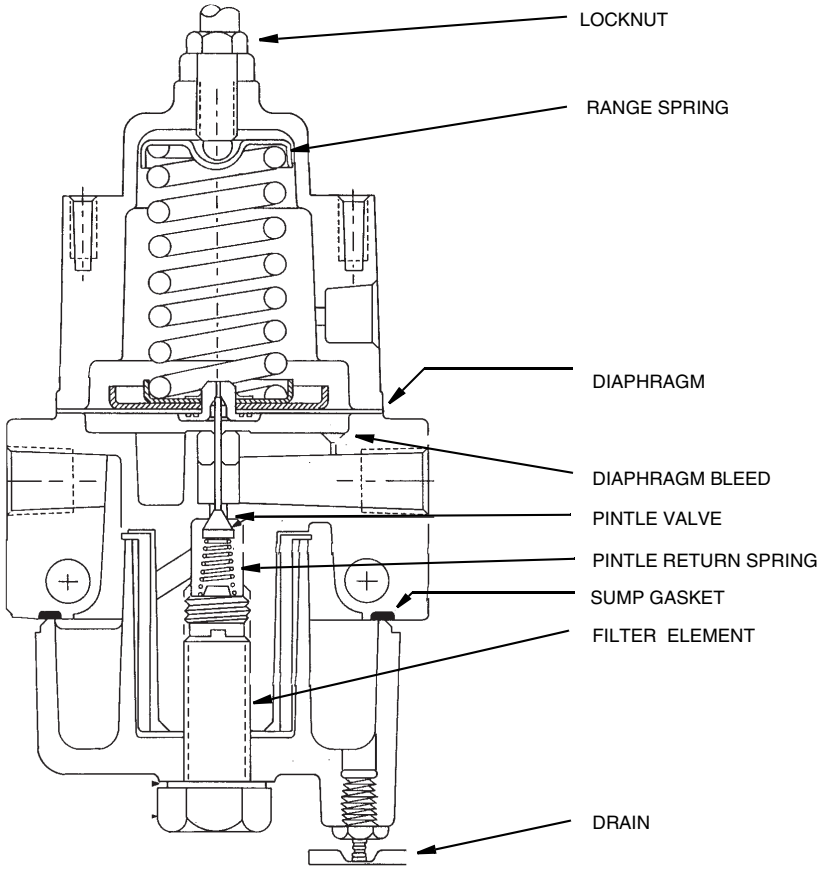


Figure 2. Cross Section of Regulator B0123HE

Related models and source control

Use these live ApterPower pages for comparison. Verify each complete ordering string independently.

RELATED PRODUCT REFERENCES

Bently Nevada 330130-070-01-00	Technical-reference companion. Review the complete ordering string before selection.
Bently Nevada 330190-045-01-05	Technical-reference companion. Compare the required interface and system position.
Bently Nevada 24701-28-05-00-070-04-02	Technical-reference companion. Confirm the execution independently for the intended task.

EXACT-SELECTION CONTROLS

Product identity	Confirm the complete B0123HE marking.
System interface	the pneumatic instrument supply line with the drain kept at the lowest point
Technical boundary	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.
Source	Invensys Systems, MI 011-157, B0123HF and B0123HE Pressure Regulators and B1279UL Air Filter, October 2013.

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