BIBS100 Datasheet

BUILT-IN BREATHING SYSTEM BACK PRESSURE REGULATOR

PRESSURE TECH

● Gas ○ Liquid | ● Diaphragm ○ Piston | ○ Self-Venting ● Non-Venting | Max Rating: 50 bar (725 psi) | Control Range: 30 bar (435 psi) | Cv 2.0

INTRODUCING THE BIBS100...

The BIBS100 is a negative-biased, dome-loaded back pressure regulator for gas applications. It offers fine adjustment of the bias spring for enhanced process control.

Its **balanced main valve** as standard minimises load on the seat and provides stable pressure control. In addition, servicing is simplified with easy access to the seat cartridge from the base of the regulator.

SPECIFICATION

Max. Rating	50 bar (725 psi)
Control Range	Up to 30 bar (435 psi) Bias
Design Proof Pressure	150% max. working pressure
Bias Spring	Up to 3 bar (45 psi)
Seat Leakage	In accordance with ANSI/FCI 70-3
Weight	6.5kg (14.3lbs)

STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS
Body and Bonnet	ASTM A479 316/316L Stainless Steel (UNS S31600/S31603) or Brass
Main Valve Pin	ASTM A479 316/316L Stainless Steel or Brass
Soft Seat	PCTFE (Kel-F)
Valve Spring	ASTM A240 301 Stainless Steel (UNS S30100)
Diaphragm	FKM/FPM (Viton)
O-Rings	FKM/FPM (Viton)
Spring	ASTM A479 316/316L Stainless Steel

Note: Pressure regulator rating may be limited by connection type, Cv and/or seat material. Contact the office for specific pressure or temperature requirements.

FEATURES AND BENEFITS

1 LARGE SENSITIVE ELASTOMERIC DIAPHRAGM

Provides accurate pressure regulation.

2 EASY ACCESS TO SEAT CARTRIDGE

Simplified servicing through base of regulator.

3 FINE ADJUSTMENT OF BIAS SPRING

Enhanced control of process and set-up.

4 CV 2.0

Supports applications with a large flow.

NOTE: Product availability and specifications contained herein are subject to change without notice. Consult local distributor or factory for potential revisions and/or service related issues. Pressure Tech Ltd support with product selection recommendations only - it is the users responsibility to ensure the product is suitable for their specific application requirements.

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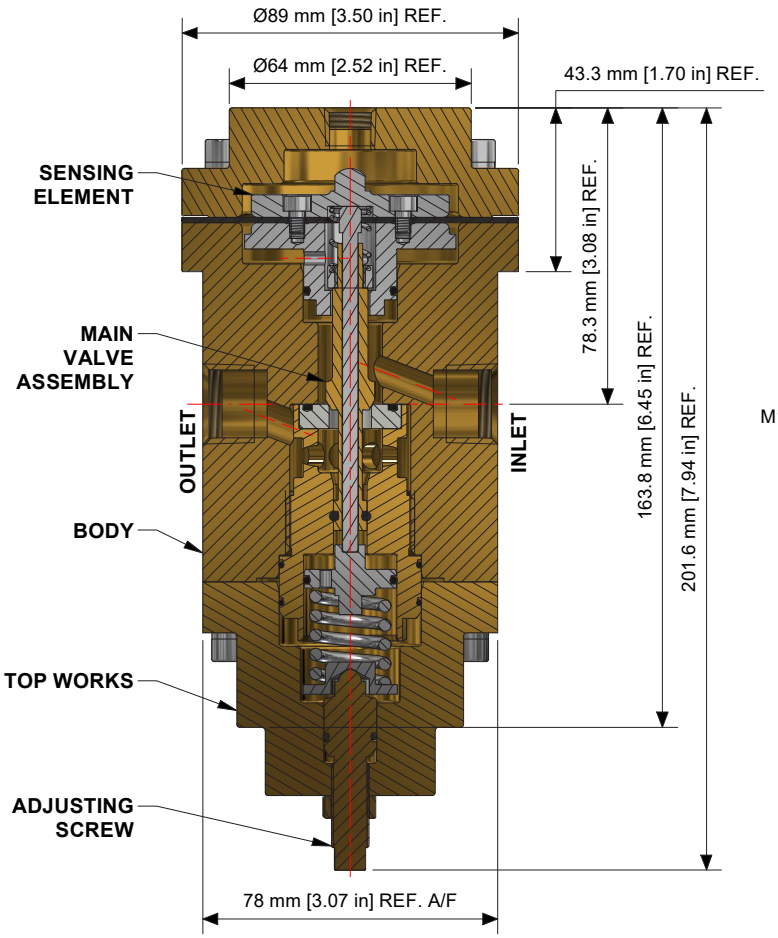
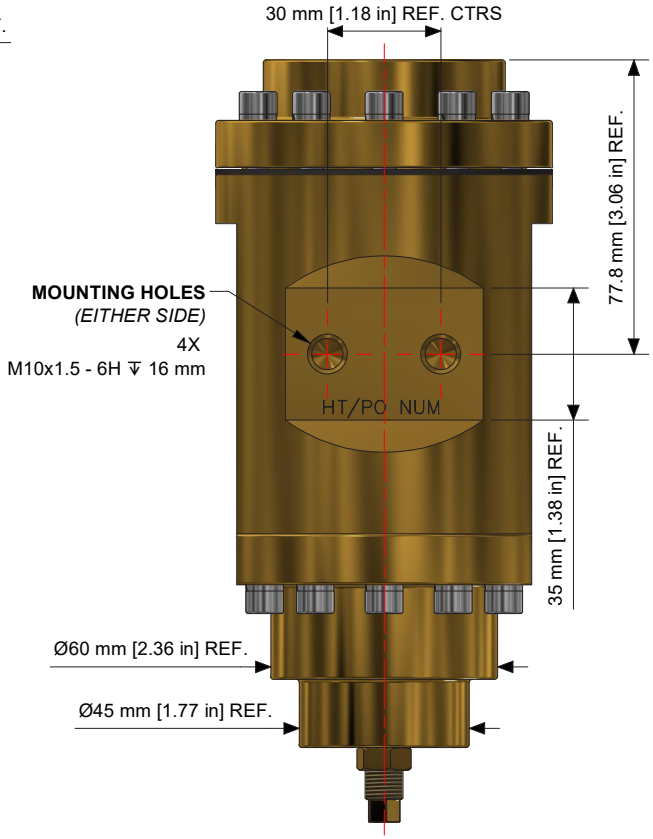
DRAWINGS AND INSTALLATION DIMENSIONS

Dimensions shown for 3/4" NPT option and standard configurations only - please contact the office for other options.





Note:

All gauge ports are 1/4" NPT as standard.

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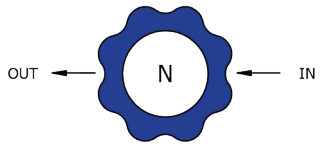
FLOW CURVE

Please contact the office for further information.

PORTING CONFIGURATIONS



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ORDERING INFORMATION

To build a Pressure Tech part number, simply combine the characters identified below in sequence:

BIBS103 – 2 – S – 30D – V – K – 06N – N – XXX

REGULATOR

BIBS100 – No Bias
BIBS101 – 1 bar Bias
BIBS102 – 2 bar Bias
BIBS103 – 3 bar Bias

CV

2 – 2.0

BODY MATERIAL**

S – ASTM A479 316/316L Stainless Steel
B – HT Brass (CW721R)

CONTROL PRESSURE

5 – Up to 5 bar (75 psi)
10 – Up to 10 bar (145 psi)
20 – Up to 20 bar (290 psi)
30 – Up to 30 bar (725 psi)

LOADING MECHANISM

D – Dome-Loaded

MODIFICATIONS*

Contact the office for information.

PORTING CONFIGURATION

N - No gauge ports

IN/OUT CONNECTION SIZE**

04 – 1/2”
06 – 3/4”

IN/OUT CONNECTION TYPE**

B – BSPP
N – NPT

SEAT MATERIAL**

K – PCTFE

O-RING MATERIAL**

V – FKM/FPM

OPTIONAL EXTRAS

	PART NUMBER	DESCRIPTION
Service Kit	SRK-BIBS100...	Various options available
Panel Mounting Ring	PT-C-024	-

Note: Ancillary Equipment and additional Service Kit options also available.

* Where applicable
** Other materials may be available - please contact the office

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