

# BIBS100 Datasheet

BUILT-IN BREATHING SYSTEM BACK PRESSURE REGULATOR



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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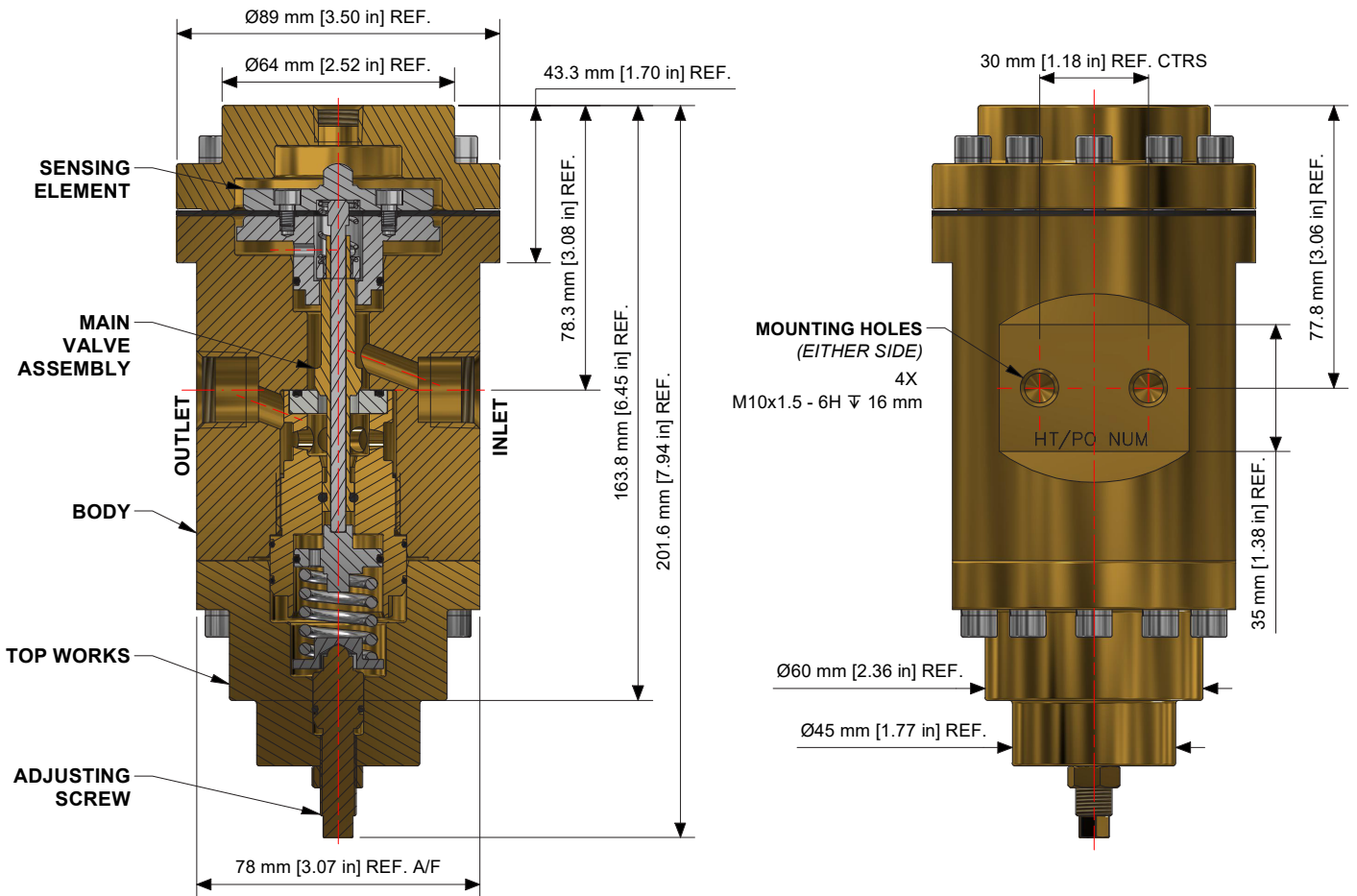
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## DRAWINGS AND INSTALLATION DIMENSIONS

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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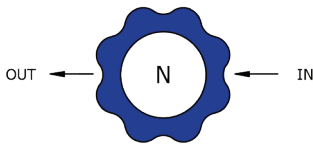


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## FLOW CURVE

Please contact the office for further information.

## PORTING CONFIGURATIONS



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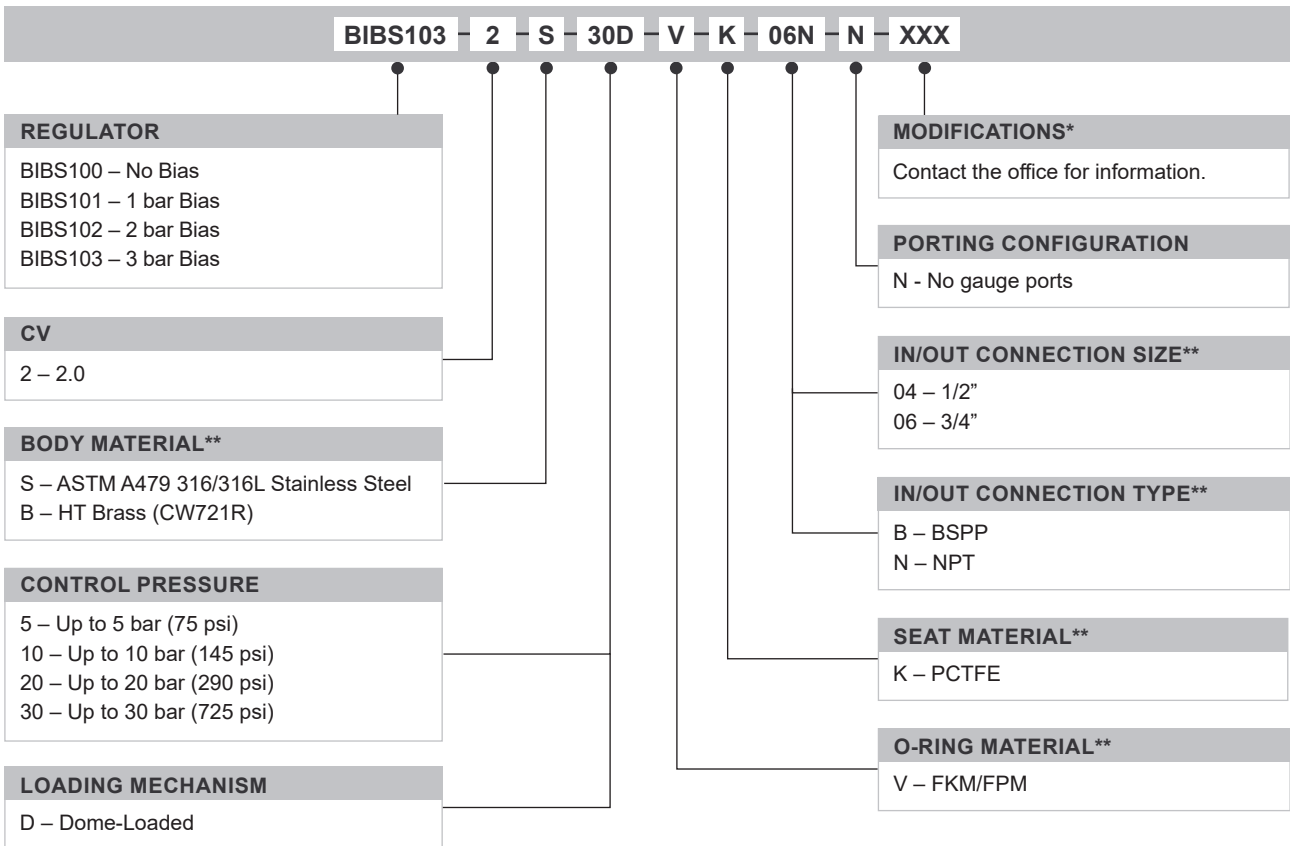
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## ORDERING INFORMATION

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



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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