SS-BP400 Datasheet

SUBSEA BACK PRESSURE REGULATOR

PRESSURE TECH

○ Gas	● Liquid	○ Diaphragm	● Piston	○ Self-Venting	● Non-Venting	Max Inlet: 400 bar (5,800 psi)	Max Outlet: 10 bar (145 psi)	Cv 2.0

INTRODUCING THE SS-BP400...

The SS-BP400 is a medium-flow subsea back pressure regulator with 1:1 tracking ratio to reference subsea pressure. Its reference port is located in an adjustable collar beneath the locking cap, enabling users to manually rotate through 360° to suit their application.

Capable of operating at depths of up to 3,000 metres (10,000 ft) and with a **balanced main valve** as standard it provides stable control under varying inlet pressures and can handle higher flow rates.

SPECIFICATION

Max. Rated Inlet Pressure	400 bar (5,800 psi)
Outlet Ranges	Up to 10 bar (145 psi)
Design Proof Pressure	150% max. working pressure
Seat Leakage	In accordance with ANSI/FCI 70-3
Weight	9kg (19.8lbs)

STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS
Body and Bonnet	ASTM A479 Duplex Stainless Steel (UNS S31803)
Main Valve Pin	ASTM A479 Duplex Stainless Steel (UNS S31803)
	Ceramic (Zirconia)
Seat	PCTFE (Kel-F)
Valve Spring	MP35N (UNS R30035)
Piston	ASTM A479 Duplex Stainless Steel (UNS S31803)
Locking Cap	ASTM A479 Duplex Stainless Steel (UNS S31803)
O-Rings	NBR N70 (Nitrile Buna N)
Loading Spring	MP35N (UNS R30035)

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 SUITABLE FOR DEEPER WATERS

Can operate at depths of up to 3,000 metres (10,000ft).

2 PISTON SENSING ELEMENT

Perfect for use in challenging conditions.

3 BALANCED MAIN VALVE DESIGN

Improved control across the pressure range.

4 OPTIONAL REMOTE OPERATION

Optional ROV handwheel or subsea multi-turn electric actuator.

PRESSURE TECH LTD
Unit 24, Graphite Way, Hadfield, Glossop, Derbyshire, UK, SK13 1QH
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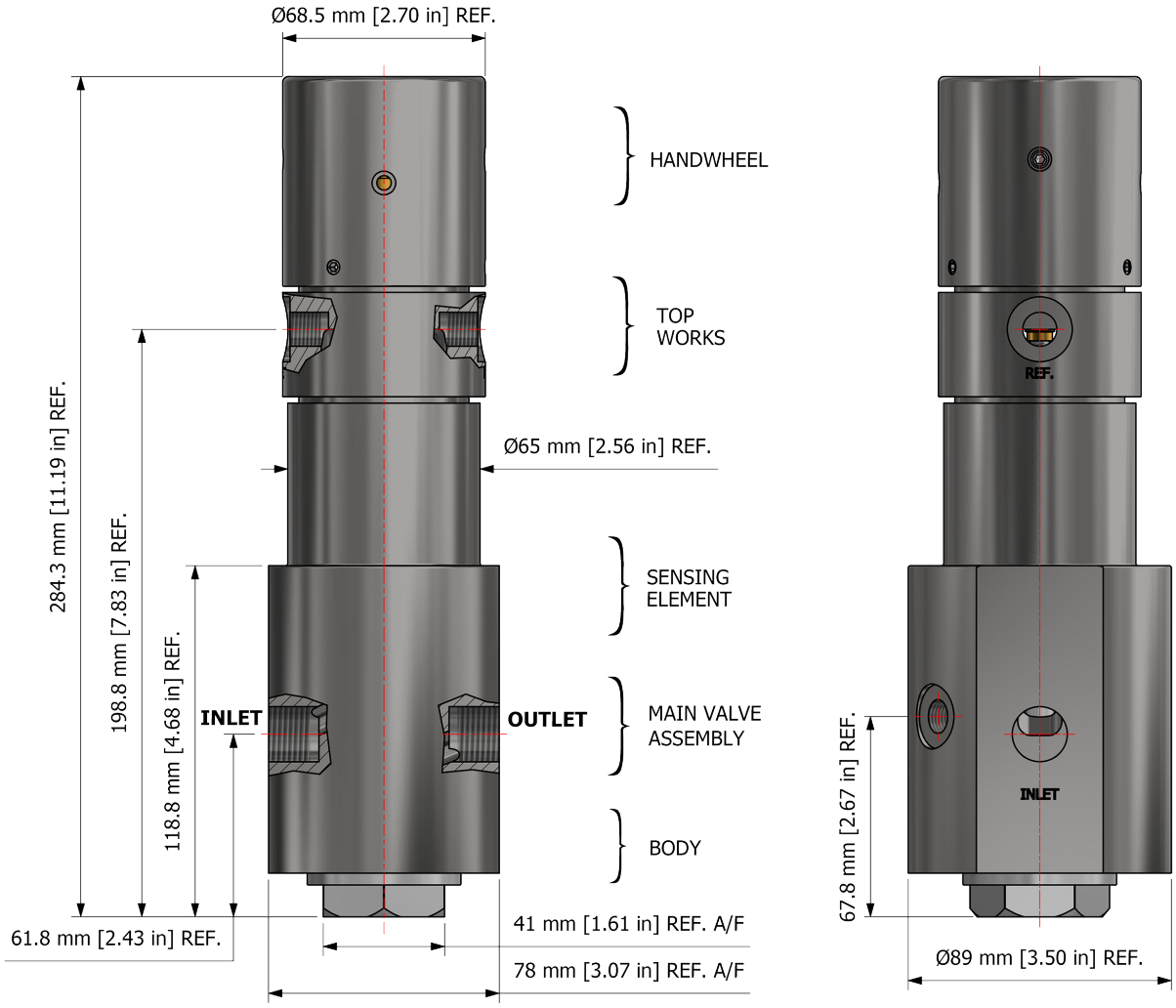
○	●	○	●	○	●			

DRAWINGS AND INSTALLATION DIMENSIONS

Dimensions shown for 1/2” BSPP option and standard configurations only - please contact the office for other options.



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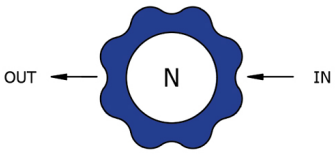
FLOW CURVE
Please contact the office for further information.

PORTING CONFIGURATIONS



Note:
Additional porting configurations are available - please contact the office for further information.

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ORDERING INFORMATION

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

SS-BP400G – 2 – D – 02SS – N – 04B – N – XXX

MODEL

SS-BP400G – Gas
SS-BP400H – Liquid

CV VALUE

2 – 2.0

BODY MATERIAL**

D – ASTM A479 Duplex Stainless Steel (UNS S31803)
D2 – ASTM A479 Super Duplex Stainless Steel (UNS S32760)

CONTROL PRESSURE

01 – Up to 1 bar (14.5 psi)
02 – Up to 2 bar (29 psi)
05 – Up to 5 bar (72 psi)
10 – Up to 10 bar (145 psi)

LOADING MECHANISM

SR – Spring Loaded with Reference to External Sea Water Pressure
SS – Spring Loaded with Sealed Chamber - No Reference to External

MODIFICATIONS*

Contact the office for information.

PORTING CONFIGURATION

N - No gauge ports

INLET/OUTLET CONNECTION**

04B – 1/2” BSPP

O-RING MATERIAL**

N – NBR

OPTIONAL EXTRAS

	PART NUMBER	DESCRIPTION
Service Kit	SRK-SS-BP400-2-N...	PCTFE seat and NBR o-rings.

Note: Ancillary equipment also available

* Where applicable
** Other connections/materials may be available

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