

SS-BP400 Datasheet

SUBSEA BACK PRESSURE REGULATOR



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) |

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

STANDARD MATERIALS OF CONSTRUCTION

| PART | MATERIALS |
|-----------------|--|
| Body and Bonnet | ASTM A479 Duplex Stainless Steel (UNS S31803) <i>Approx. Temperatures: -50°C to 315°C</i> |
| Main Valve Pin | ASTM A479 Duplex Stainless Steel Ceramic (Zirconia) <i>Approx. Temperatures: 38°C to 800°C</i> |
| Seat | PCTFE (Kel-F) <i>Approx. Temperatures: -196°C to 180°C</i> |
| Valve Spring | MP35N (UNS R30035) <i>Approx. Temperatures: -196°C to 450°C</i> |
| Piston | ASTM A479 Duplex Stainless Steel |
| Locking Cap | ASTM A479 Duplex Stainless Steel |
| O-Rings | NBR N70 (Nitrile Buna N) <i>Approx. Temperatures: -30°C to 120°C</i> |
| Loading Spring | MP35N (UNS R30035) |

For the full list of material temperature ranges, please visit www.pressure-tech.com.

Note: Temperature details are provided as nominal values for guidance purposes only. No warranty is made, expressed or implied. Contact the office for specific 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.

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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PAGE:
1 OF 4

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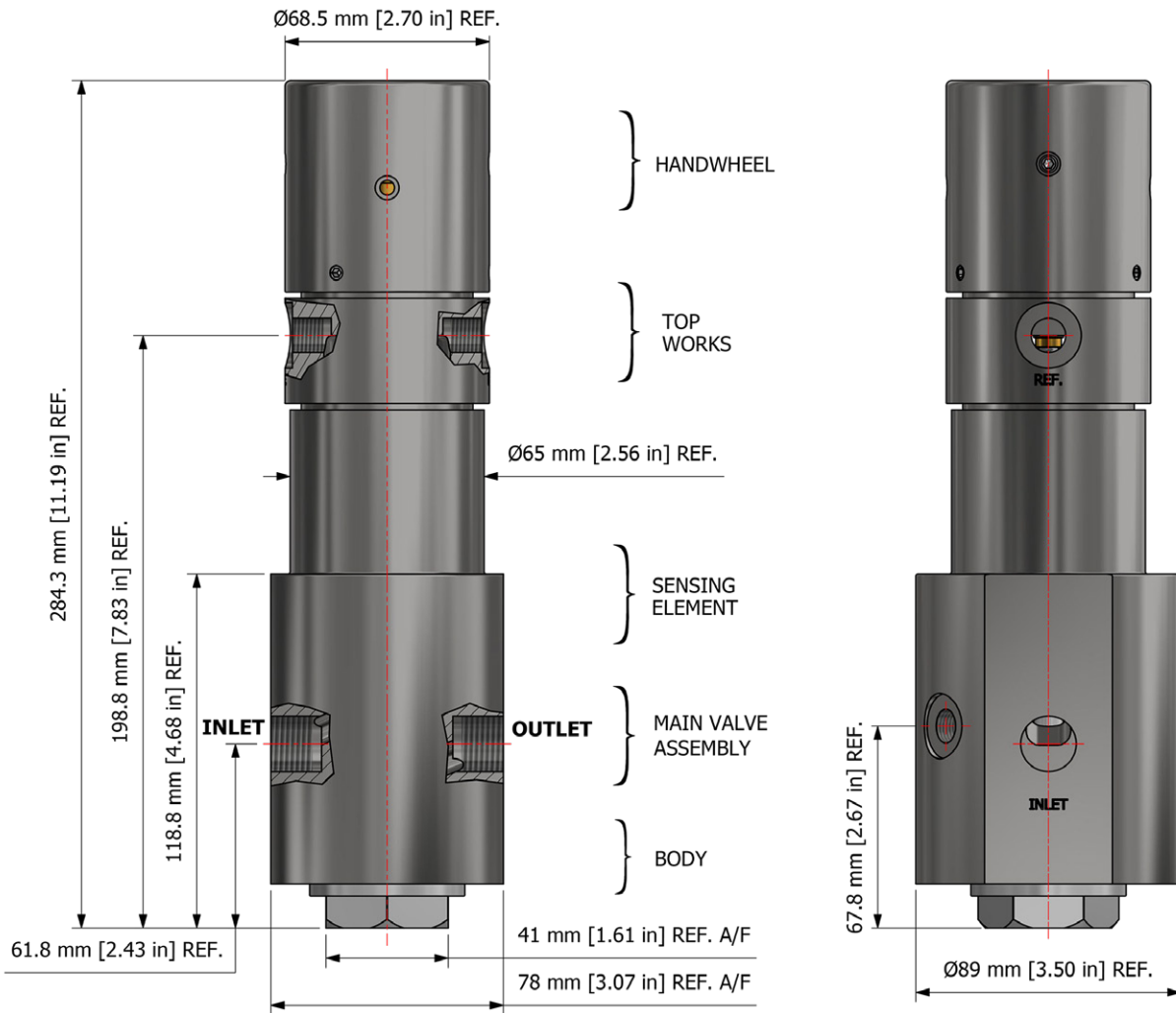
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DRAWINGS AND INSTALLATION DIMENSIONS

Dimensions shown for 1/2" BSSP option - please contact the office for additional connection/gauge options.



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PAGE: 2 OF 4

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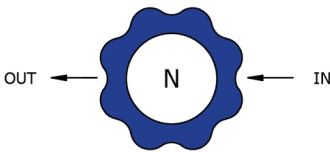


Gas Liquid | Diaphragm Piston | Self-Venting Non-Venting | Max Inlet: 400 bar (5,800 psi) | Max Outlet: 10 bar (145 psi) | Cv 2.0

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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PAGE:
3 OF 4

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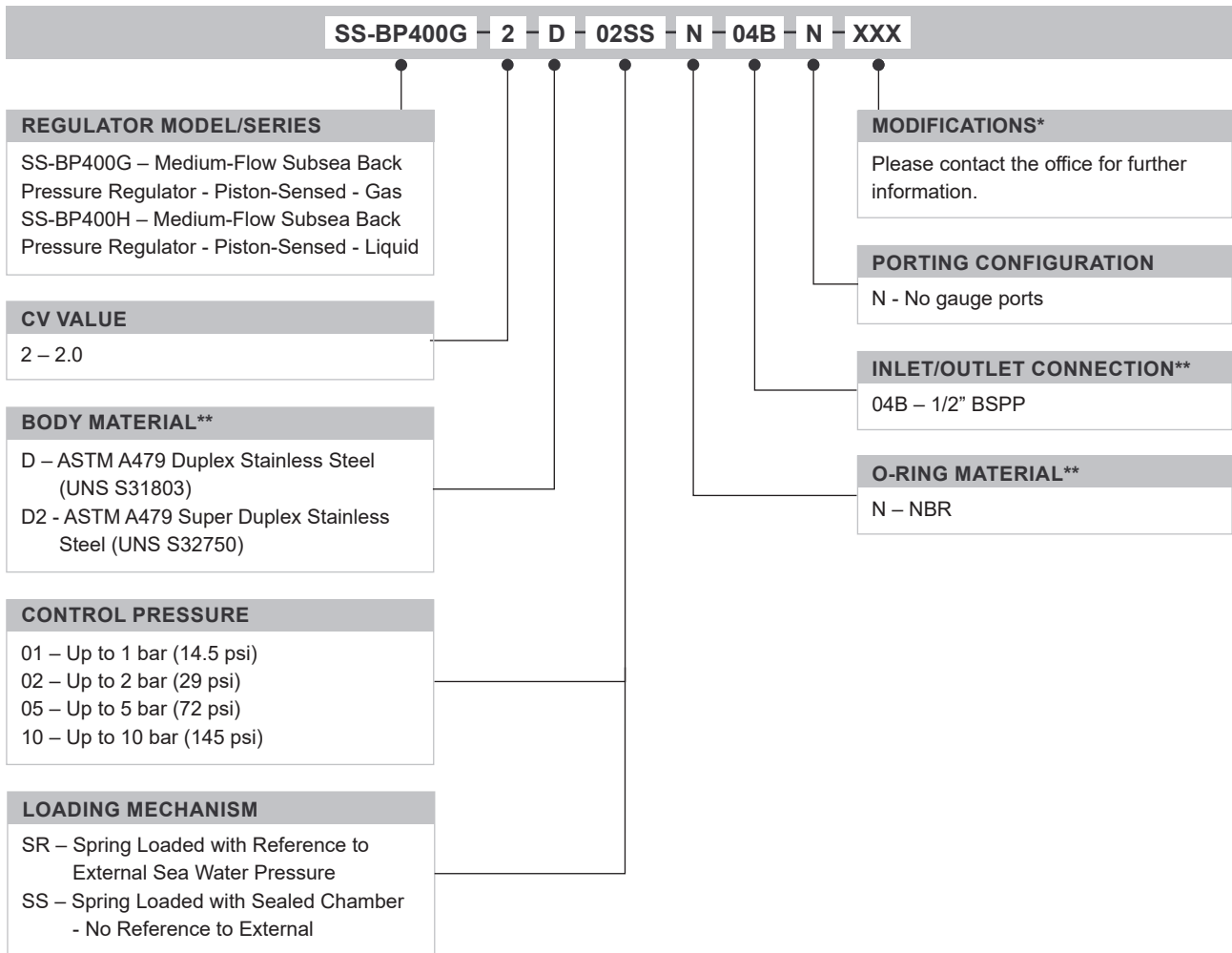
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ORDERING INFORMATION

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



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

Note: Ancillary equipment also available

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

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