

SS231 Datasheet

SUBSEA HYDRAULIC PRESSURE REGULATOR



● Gas ● Liquid | ● Diaphragm ● Piston | ● Self-Venting ● Non-Venting | Max Inlet: 230 bar (3,335 psi) | Max Outlet: 35 bar (510 psi) | Cv 1.0



INTRODUCING THE SS231...

The SS231 is a piston-sensed medium-flow subsea pressure regulator. With a **balanced main valve** as standard it provides stable control under varying inlet pressures.

Operating at depths of up to 3,000 metres (10,000ft), the SS231 uses either the external seawater pressure as a reference or works within a sealed chamber to remain completely unaffected by subsea conditions.

SPECIFICATION

Max. Rated Inlet Pressure	230 bar (3,335 psi)
Outlet Ranges	Up to 35 bar (510 psi)
Design Proof Pressure	150% max. working pressure
Seat Leakage	In accordance with ANSI/FCI 70-3
Weight	3.6kg (7.9lbs)

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

FEATURES AND BENEFITS

1 SUITABLE FOR DEEPER WATERS

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

2 ANTI-TAMPER LOCKING CAP

Cap prevents unwanted pressure adjustments to regulator.

3 MP35N VALVE SPRING

Very high strength with excellent corrosion resistance for sea water ref options.

4 OPTIONAL REMOTE OPERATION

Optional ROV handwheel or subsea multi-turn electric actuator.

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
O-Rings	FKM/FPM (Viton) <i>Approx. Temperatures: -20°C to 200°C</i>
Loading Spring	MP35N (UNS R30035) <i>Approx. Temperatures: -196°C to 450°C</i>

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.

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.



PRESSURE TECH LTD

Unit 24, Graphite Way, Hadfield, Glossop, Derbyshire, UK, SK13 1QH
 T +44 (0)1457 899 307
 E sales@pressure-tech.com
 W www.pressure-tech.com

DESIGNED, MANUFACTURED AND BUILT IN THE UK

040822

PAGE:
1 OF 4

SS231 Datasheet

SUBSEA HYDRAULIC PRESSURE REGULATOR



● Gas ● Liquid | ● Diaphragm ● Piston | ● Self-Venting ● Non-Venting | Max Inlet: 230 bar (3,335 psi) | Max Outlet: 35 bar (510 psi) | Cv 1.0

DRAWINGS AND INSTALLATION DIMENSIONS

Dimensions shown for 3/4" BSPP option - please contact the office for additional connection/gauge options.



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.



PRESSURE TECH LTD

Unit 24, Graphite Way, Hadfield, Glossop, Derbyshire, UK, SK13 1QH
T +44 (0)1457 899 307
E sales@pressure-tech.com
W www.pressure-tech.com

DESIGNED, MANUFACTURED AND BUILT IN THE UK

040822

PAGE:
2 OF 4

SS231 Datasheet

SUBSEA HYDRAULIC PRESSURE REGULATOR

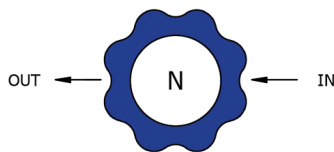


Gas Liquid | Diaphragm Piston | Self-Venting Non-Venting | Max Inlet: 230 bar (3,335 psi) | Max Outlet: 35 bar (510 psi) | Cv 1.0

FLOW CURVE

Please contact the office for further information.

PORTING CONFIGURATIONS



Note:

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

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.



PRESSURE TECH LTD

Unit 24, Graphite Way, Hadfield, Glossop, Derbyshire, UK, SK13 1QH
T +44 (0)1457 899 307
E sales@pressure-tech.com
W www.pressure-tech.com

DESIGNED, MANUFACTURED AND BUILT IN THE UK

040822

PAGE:
3 OF 4

SS231 Datasheet

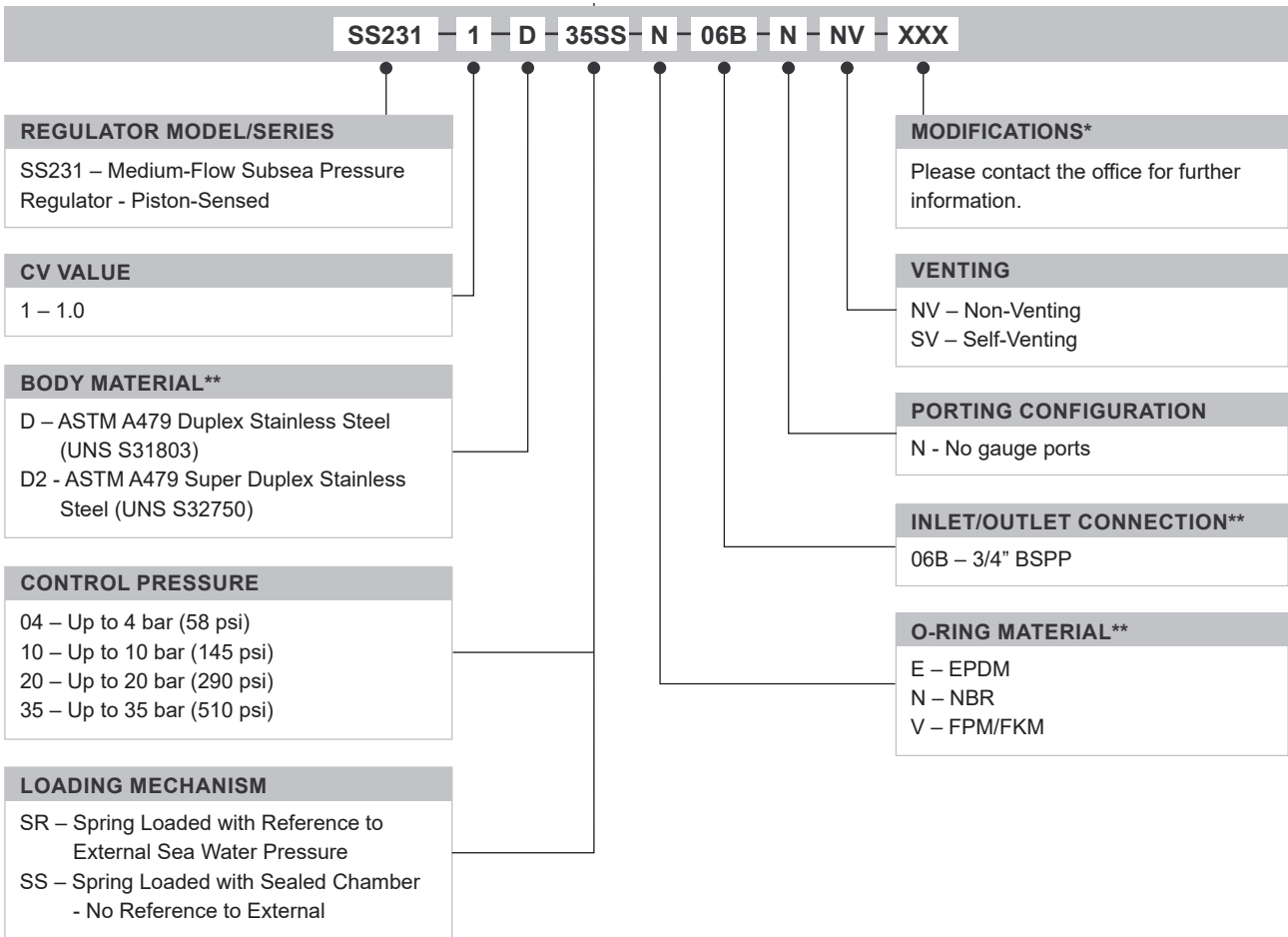
SUBSEA HYDRAULIC PRESSURE REGULATOR



● Gas ● Liquid | ● Diaphragm ● Piston | ● Self-Venting ● Non-Venting | Max Inlet: 230 bar (3,335 psi) | Max Outlet: 35 bar (510 psi) | Cv 1.0

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-SS231...	Various options available

Note: Ancillary equipment also available

TRADEMARK: Elgiloy® is a registered trademark of Elgiloy Specialty Metals
Inconel® is a registered trademark of Inco Alloys International

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

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.



PRESSURE TECH LTD
Unit 24, Graphite Way, Hadfield, Glossop, Derbyshire, UK, SK13 1QH
T +44 (0)1457 899 307
E sales@pressure-tech.com
W www.pressure-tech.com

DESIGNED, MANUFACTURED AND BUILT IN THE UK

040822

PAGE:
4 OF 4