

# 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)

## 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)
O-Rings	FKM/FPM (Viton)
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 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.

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

+44 (0)1457 899 307 | [sales@pressure-tech.com](mailto:sales@pressure-tech.com) | [www.pressure-tech.com](http://www.pressure-tech.com)

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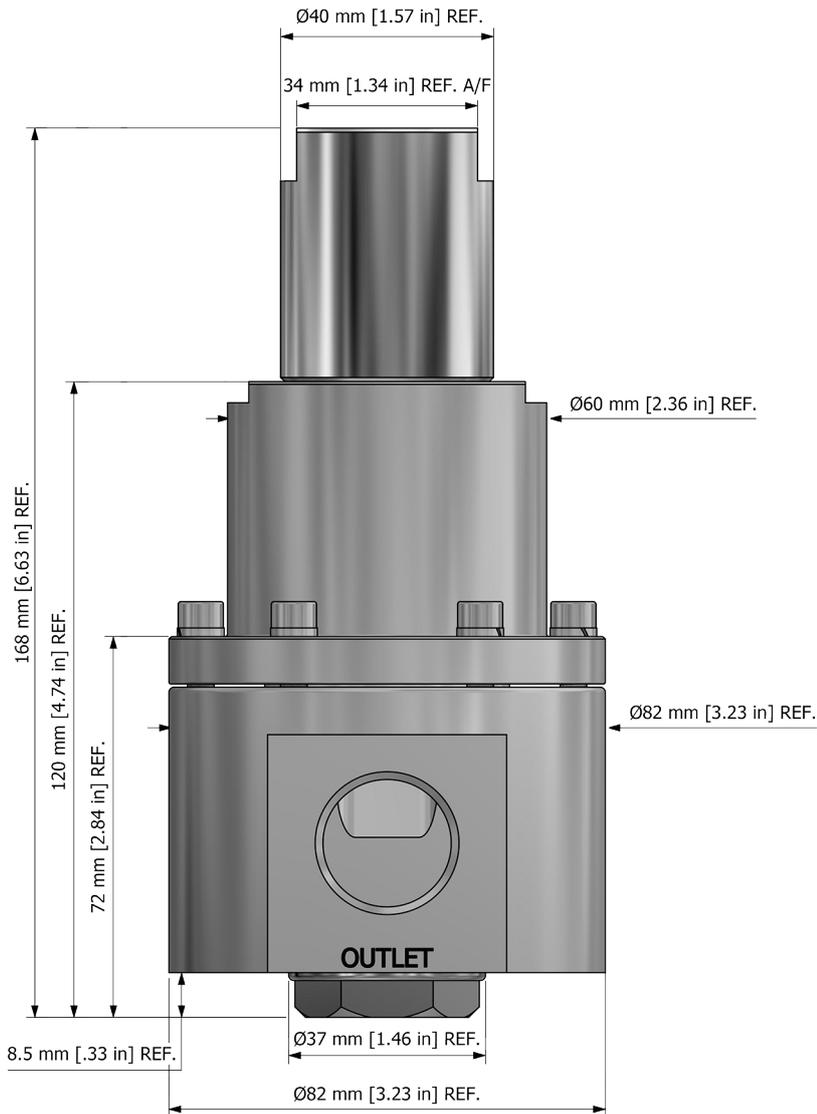
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## DRAWINGS AND INSTALLATION DIMENSIONS

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



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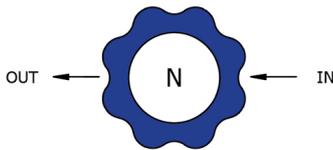


Gas    Liquid   |    Diaphragm    Piston   |    Self-Venting    Non-Venting   |   Max Inlet: 230 bar (3,335 psi)   |   Max Outlet: 35 bar (510 psi)   |   Cv 1.0

## FLOW CURVE

Please contact the office for further information.

## PORTING CONFIGURATIONS



*Note:*

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

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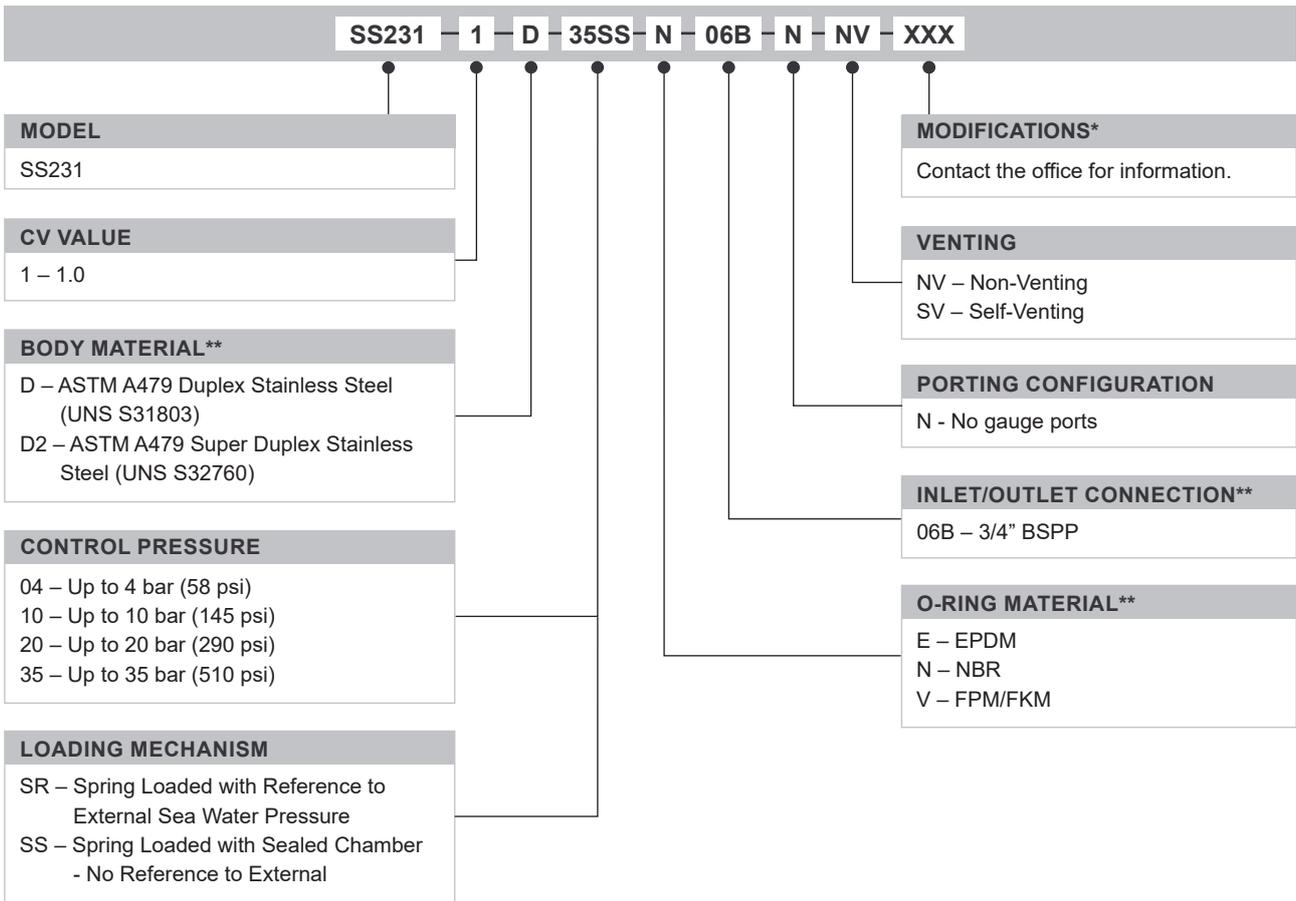
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## ORDERING INFORMATION

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



OPTIONAL EXTRAS		
	PART NUMBER	DESCRIPTION
Service Kit	SRK-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

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