

# 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)

\* Pressure regulator rating may be limited by connection type, Cv and/or seat material

## STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS
Body and Bonnet	AISI 316/316L Stainless Steel (UNS S31600/S31603)
Main Valve Pin	AISI 316/316L Stainless Steel (UNS S31600/S31603) or Ceramic
Seat	PCTFE
Valve Spring	MP35N (UNS R30035)
Piston	AISI 316/316L Stainless Steel (UNS S31600/S31603)
O-Rings	FKM/FPM
Loading Spring	MP35N (UNS R30035)

## 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.



DESIGNED AND BUILT IN THE UK

## PRESSURE TECH LTD

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## DRAWINGS AND INSTALLATION DIMENSIONS

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



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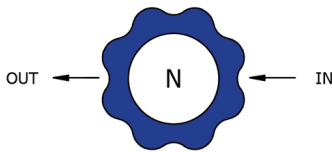


Gas  Liquid |  Diaphragm  Piston |  Self-Venting  Non-Venting | Max Inlet: 230 bar (3,335 psi) | Max Outlet: 35 bar (510 psi) | Cv 1.0

## 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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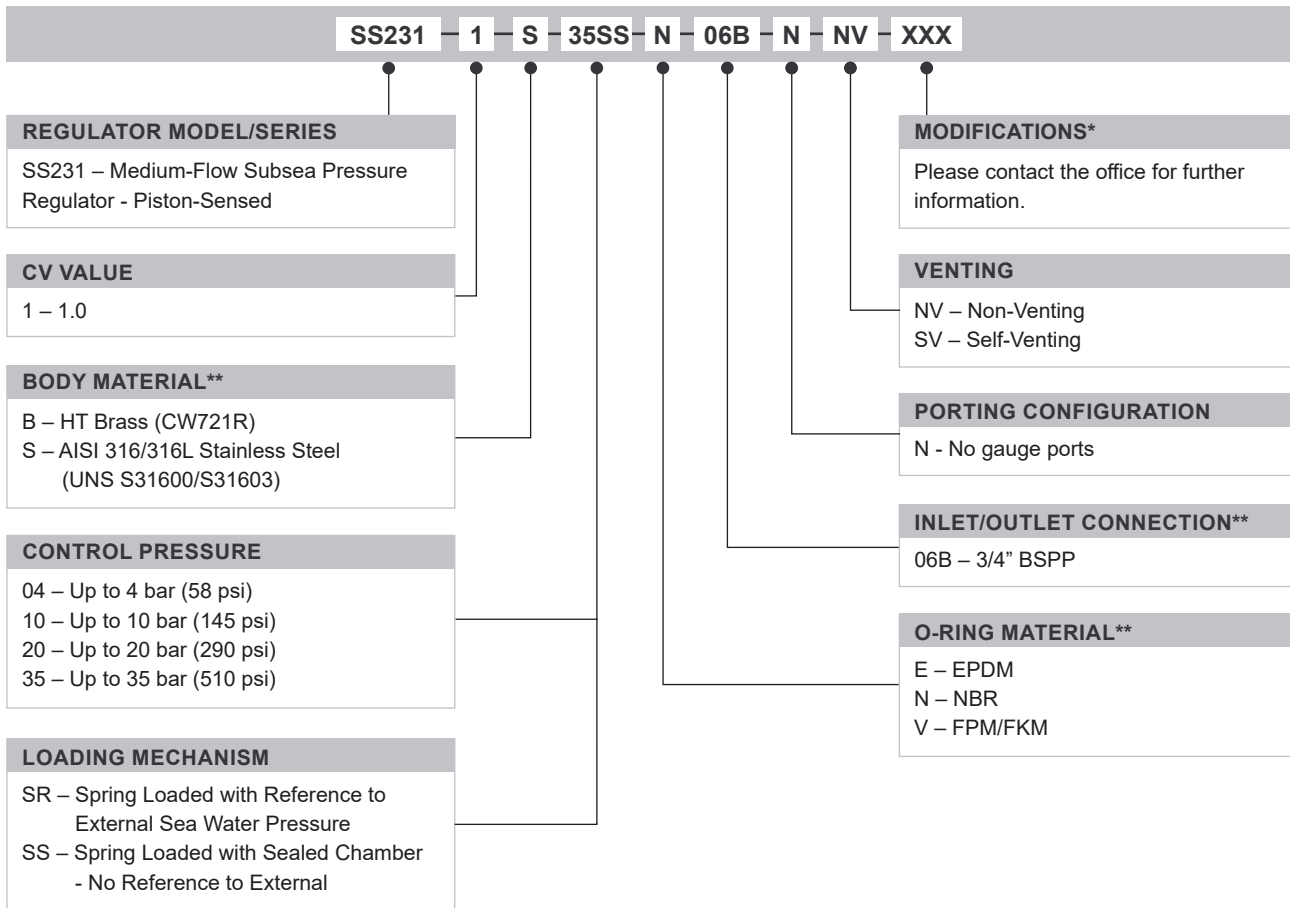
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## ORDERING INFORMATION

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 - please contact the office

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