SUBSEA HYDRAULIC PRESSURE REGULATOR



• Gas • Liquid

Diaphragm
Piston

Self-Venting

Non-Venting

Max Inlet: 414 bar (6,000 psi)

Max Outlet: 250 bar (3,625 psi)

Cv 2.0





ROV paddle available.

INTRODUCING THE SS414...

The SS414 is a piston-sensed medium-flow subsea pressure regulator with ceramic seating for water-based hydraulic oil applications and systems, or PEEK™ for gas applications. With a balanced main valve as standard, it provides stable control under varying inlet pressures.

Operating at depths of up to 3,000m (10,000ft), the SS414 uses either the external seawater pressure as a reference or works within a sealed chamber to remain completely unaffected by atmospheric conditions.

SPECIFICATION

Max. Rated Inlet Pressure	414 bar (6,000 psi)
Outlet Ranges	Up to 250 bar (3,625 psi)
Design Proof Pressure	150% max. working pre ssure
Seat Leakage	In accordance with ANSI/FCI 70-3
Weight	10.5kg (23.1lbs)

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	Ceramic (Zirconia)
	PEEK™ (450G)
Valve Spring	ASTM A240 301 Stainless Steel (UNS S30100)
Piston	ASTM A479 Duplex Stainless Steel (UNS S31803)
Locking Cap	ASTM A479 Duplex Stainless Steel (UNS S31803)
O-Ring	NBR N70 (Nitrile Buna N)
	Elgiloy® (UNS R30003)
Loading Spring	ASTM A240 301 Stainless Steel (UNS S30100)

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 DEEP WATERS

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

ANTI-TAMPER 2 ANTI-TAWN L

> Cap prevents unwanted pressure adjustments to the regulator.

3 ELGILOY® SPRING

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

OPTIONAL ROV HANDWHEEL

> Optional bucket handwheel design for ROV operation.

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 | www.pressure-tech.com



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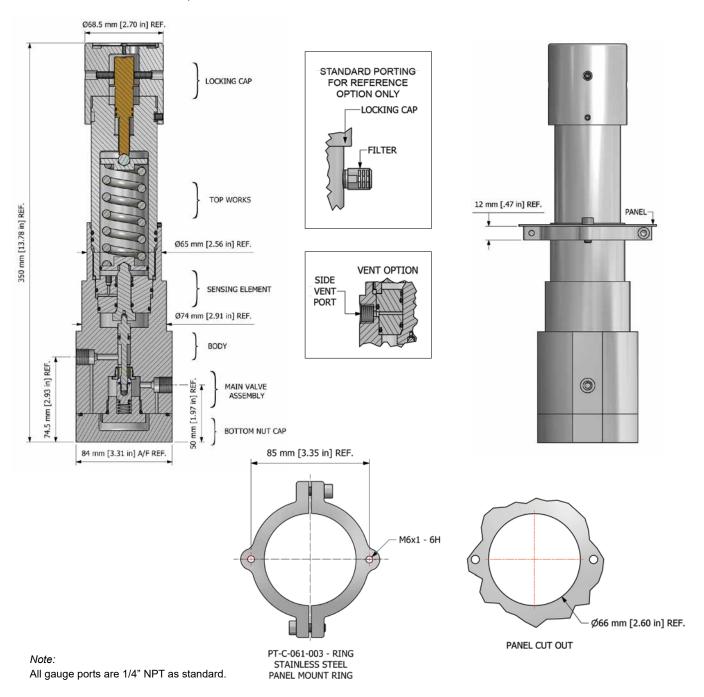
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DRAWINGS AND INSTALLATION DIMENSIONS

Dimensions shown for 3/8" Medium-Pressure non-venting 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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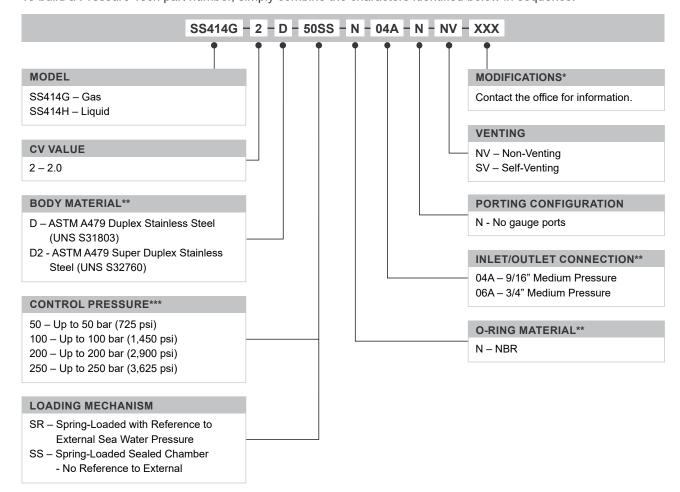
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Cv 2.0

ORDERING INFORMATION

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



	PART NUMBER	DESCRIPTION	
Service Kit	SRK-SS414	Various options available	
Panel Mounting Ring	PT-C-061-003-RING	-	

TRADEMARK: Elgiloy® is a registered trademark of Elgiloy Specialty Metals

- ** Other materials/connections may be available

*** Minimum control pressure 100 bar (1,450 psi) for hydraulic option

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