SUBSEA HYDRAULIC PRESSURE REGULATOR















Max Inlet: 414 bar (6,000 psi)

Max Outlet: 250 bar (3,625 psi)

Cv 2.0



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 pressure
Seat Leakage	In accordance with ANSI/FCI 70-3
Weight	10.5kg (23.1lbs)

^{*} 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
Body and Bonnet	(UNS S31600/S31603)
Main Valve Pin	AISI 316/316L Stainless Steel
	(UNS S31600/S31603) or Ceramic
Seat	Ceramic or PEEK™
Valve Spring	AISI 302 Stainless Steel (UNS S30200)
Piston	AISI 316/316L Stainless Steel
	(UNS S31600/S31603)
Lastina Osa	AISI 316/316L Stainless Steel
Locking Cap	(UNS S31600/S31603)
O-Ring	NBR
Loading Spring	Elgiloy® (UNS R30003) or Steel Spring

FEATURES AND BENEFITS

SUITABLE FOR DEEP WATERS

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

ANTI-TAMPER 2 LOCKING CAP

> 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.

oduct 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





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



SUBSEA HYDRAULIC PRESSURE REGULATOR



• Gas • Liquid

Diaphragm • Piston



Non-Venting

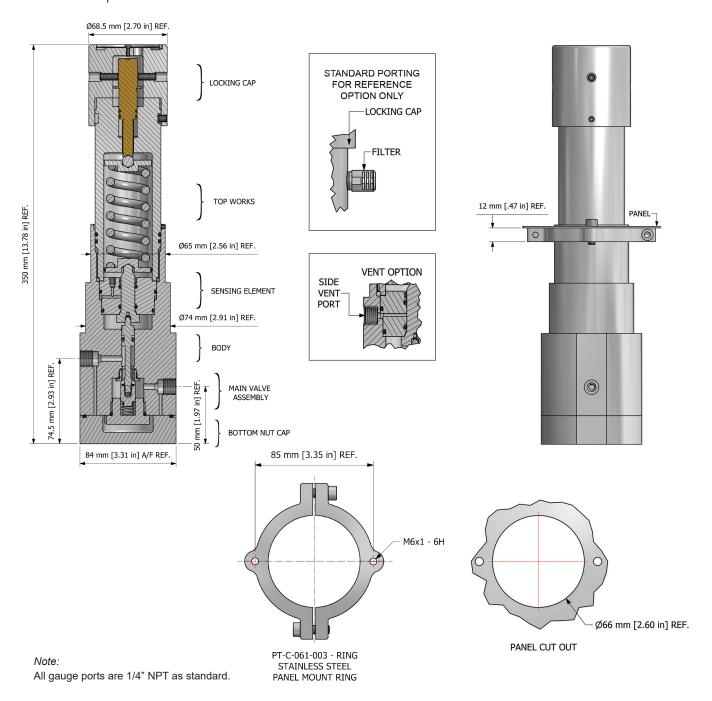
Max Inlet: 414 bar (6,000 psi)

Max Outlet: 250 bar (3,625 psi)

Cv 2.0

DRAWINGS AND INSTALLATION DIMENSIONS

Dimensions shown for 3/8" Medium-Pressure non-venting option - please contact the office for additional connection 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





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

SUBSEA HYDRAULIC PRESSURE REGULATOR



• Gas • Liquid

Diaphragm
Piston





Non-Venting

Max Inlet: 414 bar (6,000 psi)

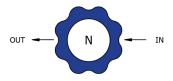
Max Outlet: 250 bar (3,625 psi)

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.

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.





SUBSEA HYDRAULIC PRESSURE REGULATOR



Gas Liquid

DiaphragmPiston





Non-Venting

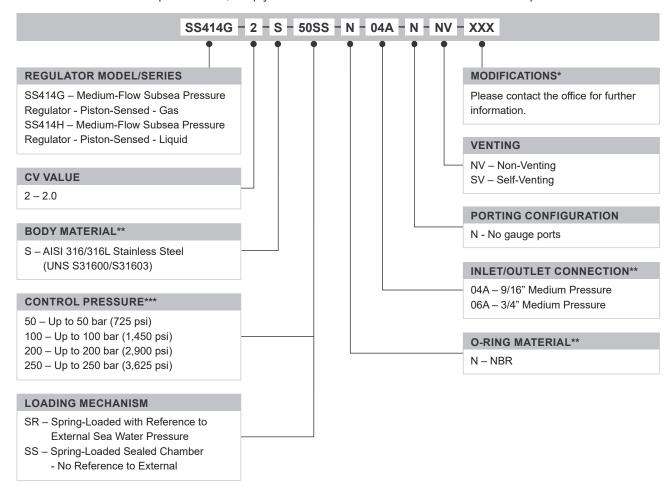
Max Inlet: 414 bar (6,000 psi)

Max Outlet: 250 bar (3,625 psi)

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 please contact the office
- *** Minimum control pressure 100 bar (1,450 psi) for hydraulic option

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

