SUBSEA HYDRAULIC PRESSURE REGULATOR



STANDARD MATERIALS OF CONSTRUCTION

MATERIALS

AISI 316/316L Stainless Steel

AISI 316/316L Stainless Steel

AISI 316/316L Stainless Steel

AISI 316/316L Stainless Steel

(UNS S31600/S31603) or Ceramic

AISI 302 Stainless Steel (UNS S30200)

Elgiloy® (UNS R30003) or Steel Spring

(UNS S31600/S31603)

Ceramic or PEEK™

(UNS S31600/S31603)

(UNS S31600/S31603)

NBR

● Gas ● Liquid	Diaphragm • Pis	on • Self- Venting	Non-     Venting	Max Inlet: 414 bar (6,000 psi)	Max Outlet: 250 bar (3,625 psi)	Cv 2.0

PART

Seat

Piston

O-Ring

Body and Bonnet

Main Valve Pin

Valve Spring

Locking Cap

Loading Spring

### **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<sup>™</sup> for gas applications. With a **balanced** main valve as standard, it provides stable control under varying inlet pressures.

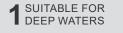
Operating at depths of up to 3,000m (10,000ft), the SS414 uses either the external seawater pressure as a reference or works within a sealed chamber to remain completely unaffected by atmospheric conditions.

#### **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

## FEATURES AND BENEFITS



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



DESIGNED AND BUILT IN THE UK

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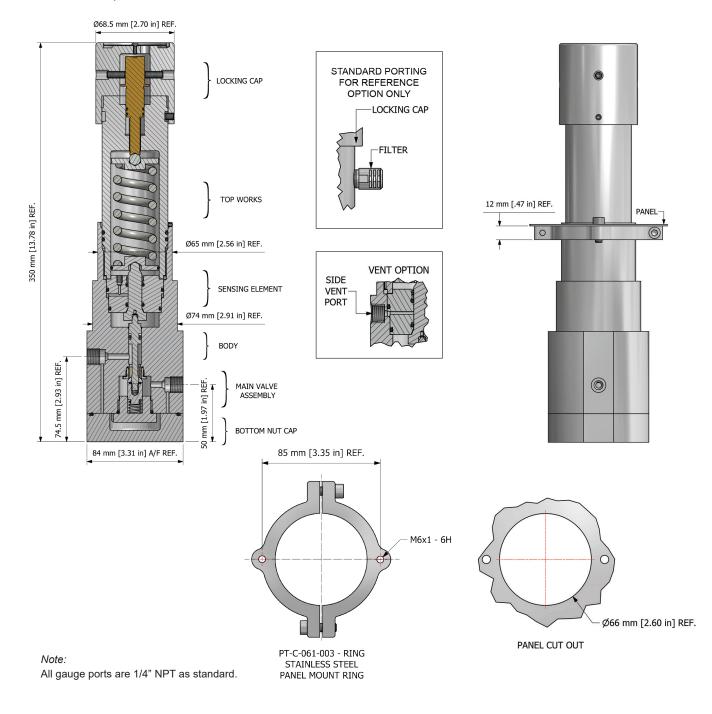
SUBSEA HYDRAULIC PRESSURE REGULATOR



● 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							
	• Gas	• Liquid Diaphragm	Piston     Self-     Venting	<ul> <li>Non- Venting</li> </ul>	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.



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SUBSEA HYDRAULIC PRESSURE REGULATOR



💿 Gas 🔹 Liquid 📄 Diaphragm	Piston     Self-     Venting     Venting	Non- /enting 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.

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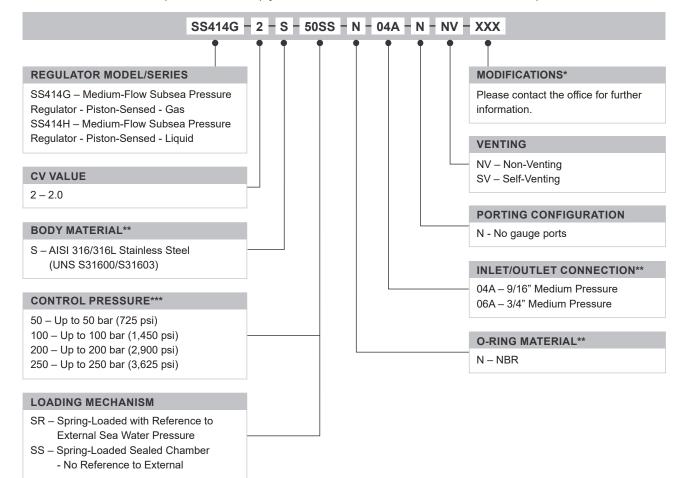
SUBSEA HYDRAULIC PRESSURE REGULATOR



• Gas • Liquid • Diaphragm • Piston • Venting • Venting • Max Inlet: 414 bar (6,000 psi) • Max Outlet: 250 bar (3,625 psi) • Cv 2	● Piston Self- ● Non- Max Inlet: 414 bar (6,000 psi) Max Outlet: 2	ar (3,625 psi)   Cv 2.0	id Diaphragm • Piston • Self- • 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

Haldatec

\* Where applicable

\*\* Other materials/connections may be available - please contact the office \*\*\* Minimum control pressure 100 bar (1,450 psi) for hydraulic option

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