SUBSEA HYDRAULIC PRESSURE REGULATOR



● Gas ● Liquid ● Diaphragm (	Piston     Self-     O     Venting     O     Venting	ing Max Inlet: 690 bar (10,000 psi)	Max Outlet: 690 bar (10,000 psi)

## **INTRODUCING THE SS690...**

The SS690 is a piston-sensed low-flow subsea pressure regulator with ceramic seating for water-based hydraulic oil applications and systems. With the **balanced main valve** option it can provide stable control under varying inlet pressures and cope with higher flow rates.

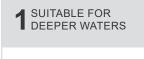
Operating at depths of up to 3,000 metres (10,000ft), the SS690 uses either the external seawater pressure as a reference or works within a sealed chamber to remain completely unaffected by atmospheric conditions.

## SPECIFICATION

Max. Rated Inlet Pressure	690 bar (10,000 psi)
Outlet Ranges	Up to 690 bar (10,000 psi)
Design Proof Pressure	150% max. working pressure
Seat Leakage	In accordance with ANSI/FCI 70-3
Weight	10.5kg (23.1lbs)

*Note:* Pressure regulator rating may be limited by connection type, Cv and/or seat material. Contact the office for specific pressure requirements.

## FEATURES AND BENEFITS



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

**2** ANTI-TAMPER LOCKING CAP

Cap prevents unwanted pressure adjustments to regulator.

## STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS
Body and Bonnet	ASTM A479 Duplex Stainless Steel (UNS S31803)
	Approx. Temperatures: -50°C to 315°C
Main Valve Pin	ASTM A479 Duplex Stainless Steel
	Ceramic (Zirconia) Approx. Temperatures: 38°C to 800°C
Seat	Ceramic (Zirconia)
Valve Spring	MP35N (UNS R30035) Approx. Temperatures: -196°C to 450°C
Piston	ASTM A479 Duplex Stainless Steel
Locking Cap	ASTM A479 Duplex Stainless Steel
O-Rings	NBR N70 (Nitrile Buna N) Approx. Temperatures: -30°C to 120°C
Loading Spring	MP35N (UNS R30035)

# For the full list of material temperature ranges, please visit <u>www.pressure-tech.com</u>.

*Note:* Temperature details are provided as nominal values for guidance purposes only. No warranty is made, expressed or implied. Contact the office for specific temperature requirements.

3 MP35N VALVE SPRING

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

**OPTIONAL REMOTE** 

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.



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DESIGNED, MANUFACTURED AND BUILT IN THE UK



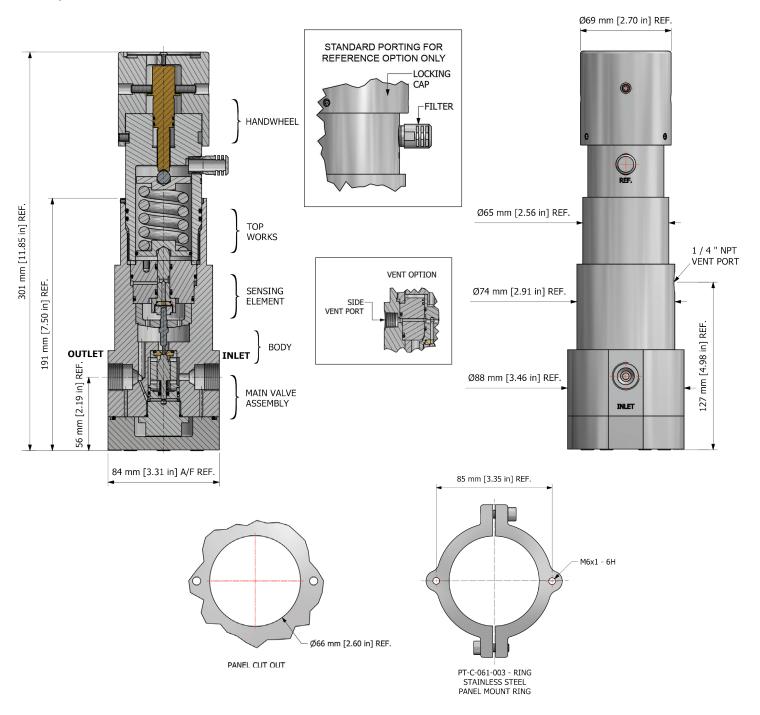
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**PRESSURE TECH** 

## DRAWINGS AND INSTALLATION DIMENSIONS

Dimensions shown for 3/8" Medium Pressure option - please contact the office for additional connection/gauge options.



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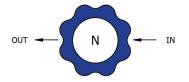


🕒 Gas 💿 Liquid 📄 Diaphragm	Piston     Self-     Venting	<ul> <li>Non- Venting</li> </ul>	Max Inlet: 690 bar (10,000 psi)	Max Outlet: 690 bar (10,000 psi)	Cv 0.1

## **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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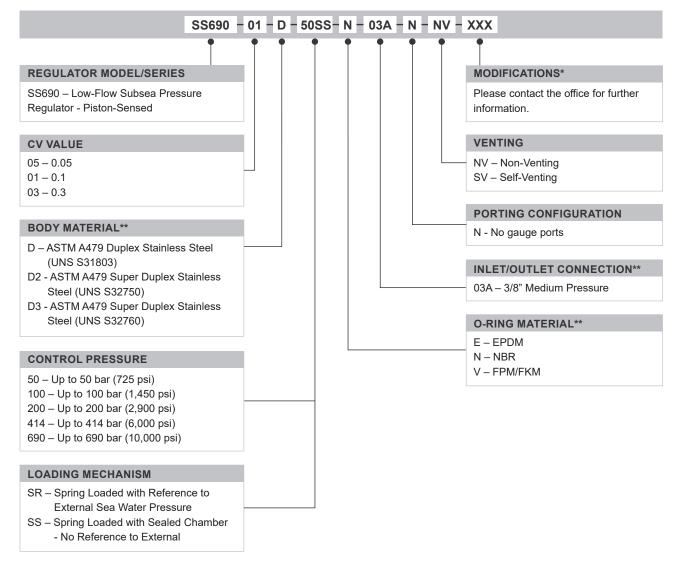
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## **ORDERING INFORMATION**

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



### OPTIONAL EXTRAS

	PART NUMBER	DESCRIPTION
Service Kit	SRK-SS690	Various options available
Panel Mounting Ring	PT-C-061-003-RING	-

Note: Ancillary equipment also available

TRADEMARK:

Elgiloy<sup>®</sup> is a registered trademark of Elgiloy Specialty Metals Hastelloy<sup>®</sup> is a registered trademark of Haynes International, Inc

\* Where applicable

\*\* Other connections/materials may be available - please contact the office

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