SUBSEA HYDRAULIC PRESSURE REGULATOR







DiaphragmPiston







Max Inlet: 690 bar (10,000 psi)

Max Outlet: 690 bar (10,000 psi)

Cv 0.1





INTRODUCING THE SS690...

The SS690 is an API 17F approved piston-sensed lowflow 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.

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 www.pressure-tech.com.

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.

FEATURES AND BENEFITS

SUITABLE FOR DEEPER WATERS

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

API 17F APPROVAL

Actuated and manual options are API 17F approved.

MP35N **VALVE SPRING**

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

OPTIONAL REMOTE OPERATION

Optional ROV handwheel or subsea multi-turn electric actuator.

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





PRESSURE TECH LTD

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SUBSEA HYDRAULIC PRESSURE REGULATOR





Gas Liquid









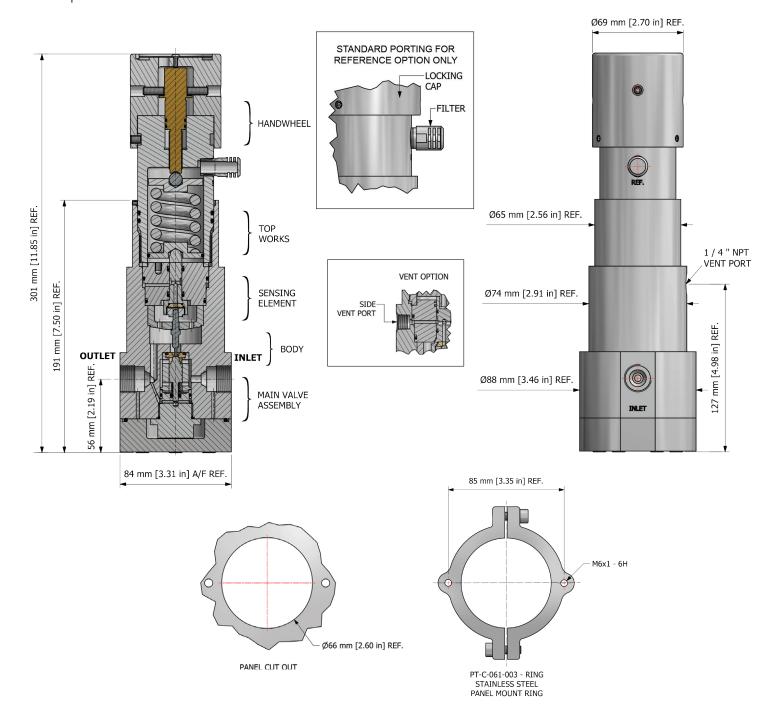
Max Inlet: 690 bar (10,000 psi)

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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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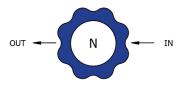
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Cv 0.1

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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Gas Liquid

DiaphragmPiston

Self-Venting

Non-Venting

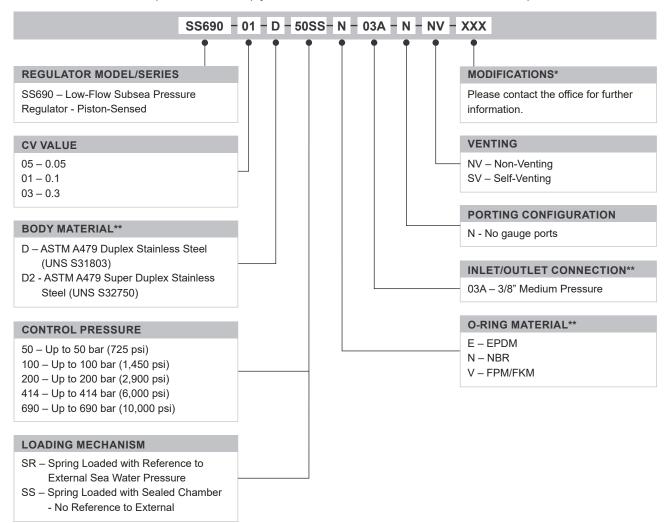
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Cv 0.1

ORDERING INFORMATION

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



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

TRADEMARK:

Elgiloy® is a registered trademark of Elgiloy Specialty Metals Hastelloy® is a registered trademark of Haynes International, Inc.

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

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