

SS690 Datasheet

SUBSEA HYDRAULIC PRESSURE REGULATOR



Gas
 Liquid
 Diaphragm
 Piston
 Self-Venting
 Non-Venting
 Max Inlet: 690 bar (10,000 psi)
 Max Outlet: 690 bar (10,000 psi)
 Cv 0.1



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) |

STANDARD MATERIALS OF CONSTRUCTION

| PART | MATERIALS |
|-----------------|-----------------------------------------------------------------|
| Body and Bonnet | AISI 316 / 316L Stainless Steel (UNS S31600 / S31603) |
| Main Valve Pin | AISI 316 / 316L Stainless Steel (UNS S31600 / S31603) / Ceramic |
| Seat | Ceramic |
| Valve Spring | AISI 302 Stainless Steel (UNS S30200) |
| Piston | AISI 316 / 316L Stainless Steel (UNS S31600 / S31603) |
| Locking Cap | AISI 316 / 316L Stainless Steel (UNS S31600 / S31603) |
| 'O'-Ring Seals | NBR |
| Loading Spring | Elgiloy® (UNS R30003) / Steel Spring |

FEATURES AND BENEFITS

1 SUITABLE FOR DEEPER WATERS

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

2 ANTI-TAMPER LOCKING CAP

Cap prevents unwanted pressure adjustments to regulator.

3 ELGILOY® SPRING

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

4 OPTIONAL REMOTE OPERATION

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.



DESIGNED AND BUILT IN THE UK

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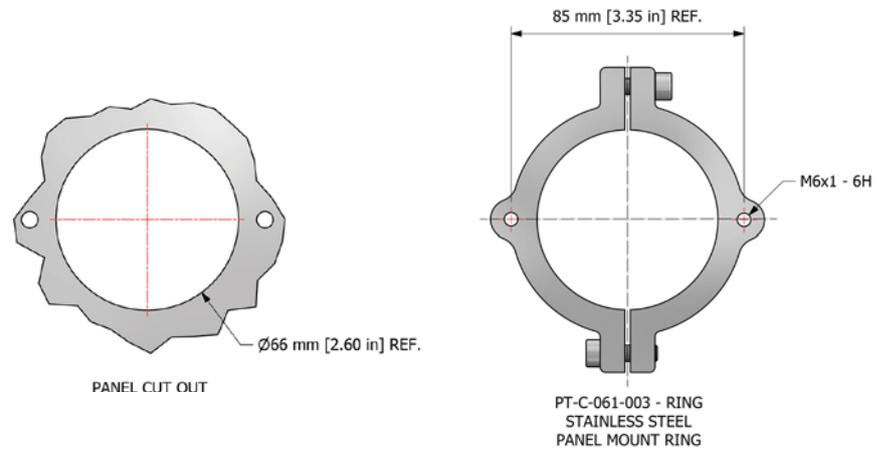
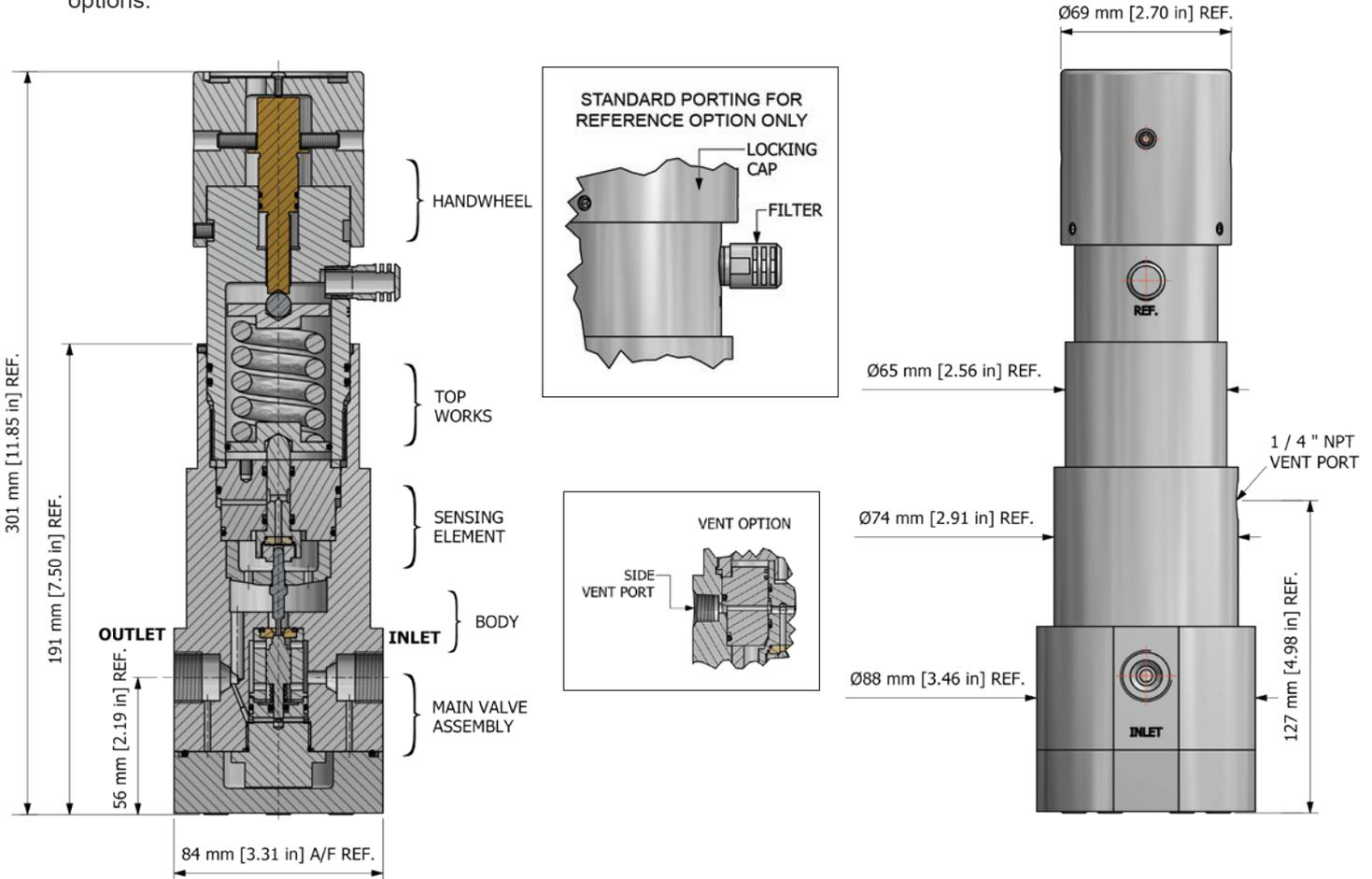
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DRAWINGS AND INSTALLATION DIMENSIONS

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



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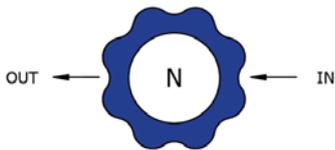


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FLOW CURVE

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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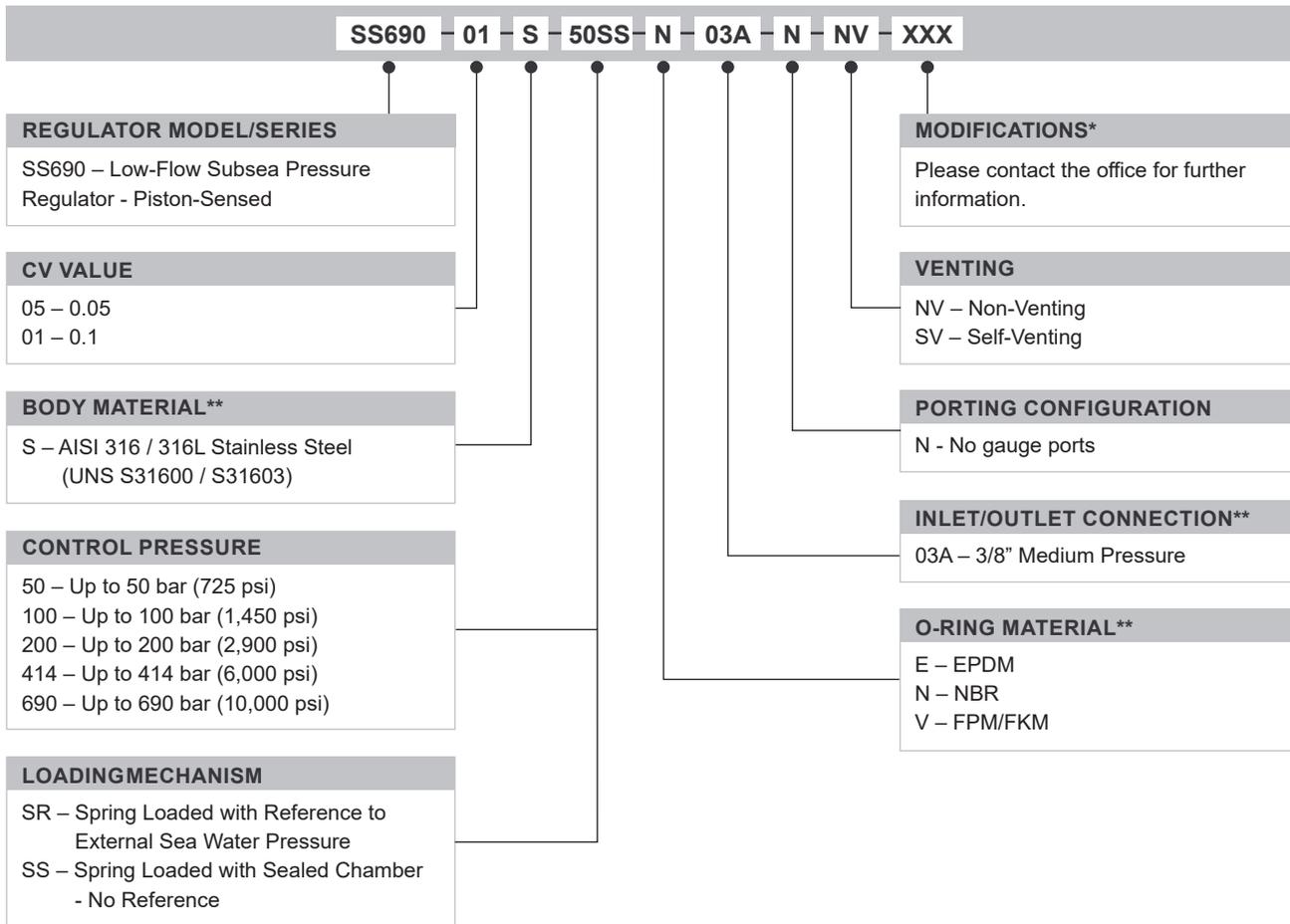
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ORDERING INFORMATION

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

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

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