

LF692 Datasheet

LOW-FLOW PRESSURE REGULATOR



Gas
 Liquid
 Diaphragm
 Piston
 Self-Vent
 Non-Vent
 Max Inlet: 1,034 bar (15,000 psi)
 Max Outlet: 1,034 bar (15,000 psi)
 Cv 0.1



INTRODUCING THE LF692...

The LF692 is a piston-sensed low-flow pressure regulator with a Tecasint® seat for use on high pressure gases. It uses a range of precision-machined sensing elements to provide pressure control up to 1,034 bar (15,000 psi).

The LF692 features an **unbalanced main valve** as standard for up to 1,034 bar (15,000 psi) inlet pressure with a flow coefficient of 0.1. Alternatively, a **balanced** option can be supplied with up to 690 bar (10,000 psi) inlet pressure and a flow coefficient of 0.3.

Its segregated captured vent prevents deterioration to the loading mechanism and allows media to be piped off to the return tank.

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) |
| Seat | Tecasint® |
| Valve Spring | AISI 302 Stainless Steel (UNS S30200) |
| Piston | AISI 316 / 316L Stainless Steel (UNS S31600 / S31603) |
| Handwheel | Nylon |
| 'O'-Ring Seals | NBR |
| Loading Spring | Silicon Chrome Wire |

SPECIFICATION

| LF692 | | BALANCED | UNBALANCED | Outlet Ranges | Up to 1,034 bar (15,000 psi) |
|-----------|-------------|----------------------|------------------------|-----------------------|----------------------------------|
| Tecasint® | Max. Inlet: | 690 bar (10,000 psi) | 1,034 bar (15,000 psi) | Design Proof Pressure | 150% max. working pressure |
| | Cv | 0.3 | 0.05 / 0.1 | Seat Leakage | In accordance with ANSI/FCI 70-3 |
| | | | | Weight | 4.5kg (9.9lbs) |

FEATURES AND BENEFITS

1 PISTON SENSING ELEMENT

Perfect for use in challenging conditions.

2 PRECISION MACHINED SENSING ELEMENT

For accurate pressure control.

3 SEGREGATED CAPTURED VENT

Prevents deterioration to loading mechanism and allows media to be piped off to return tank. Ideal for toxic or hazardous gases.

4 EASY ACCESS TO SEAT CARTRIDGE

Simplified servicing through base of regulator.

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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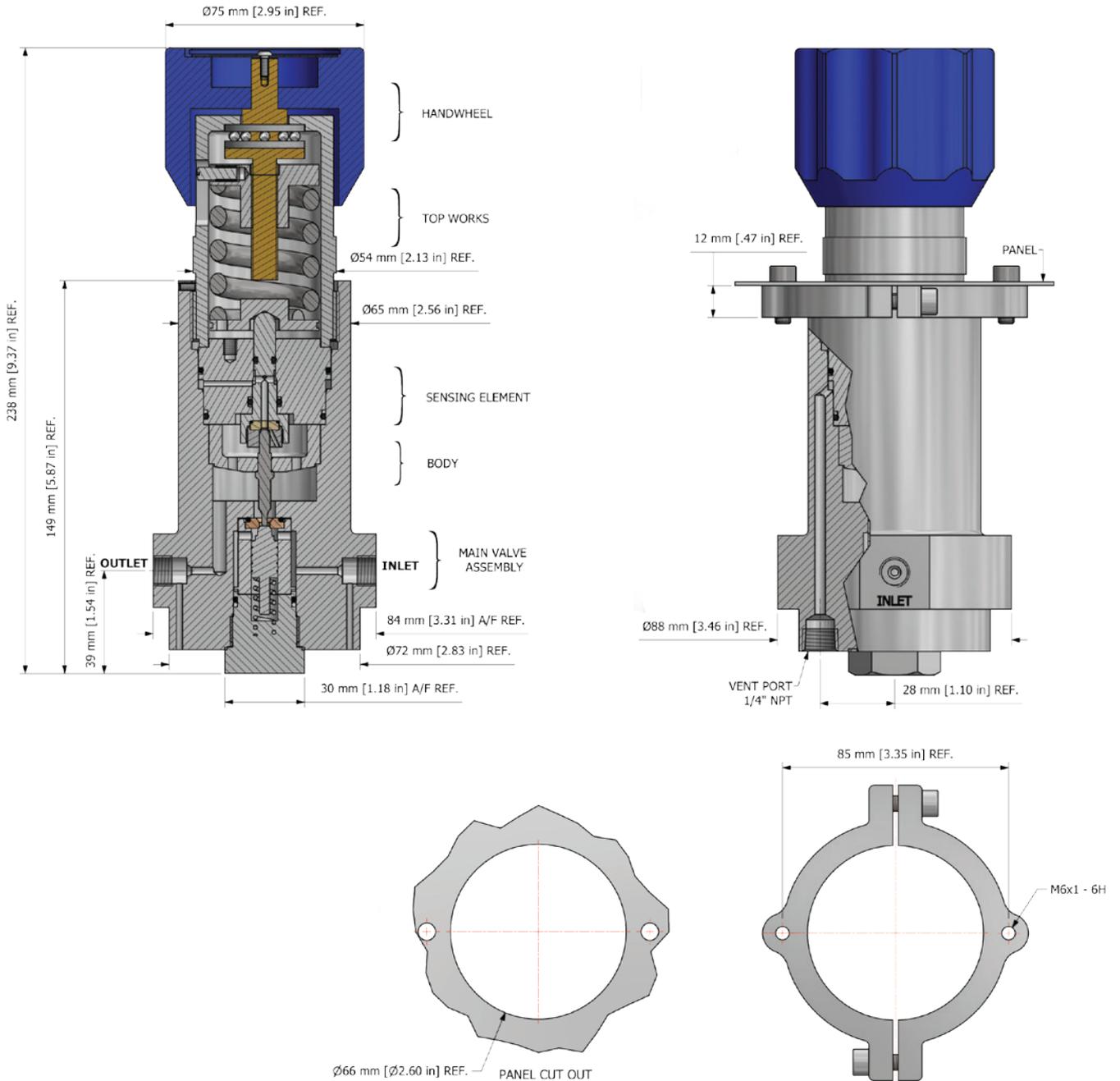
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DRAWINGS AND INSTALLATION DIMENSIONS

Dimensions shown for 1/4" MP option - please contact the office for additional connection options.



Note:
All gauge ports are 1/4" NPT as standard.

PT-C-061-003-RING (STAINLESS STEEL)
 PT-C-061-003-001-RING (ALUMINIUM)
 PANEL MOUNT RING

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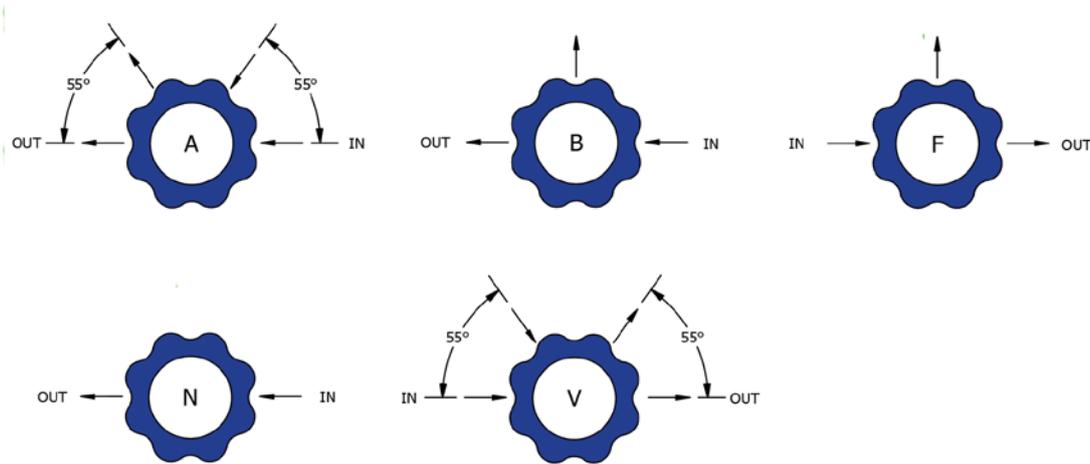


● Gas ● Liquid | ● Diaphragm ● Piston | ● Self-Vent ● Non-Vent | Max Inlet: 1,034 bar (15,000 psi) | Max Outlet: 1,034 bar (15,000 psi) | Cv 0.1

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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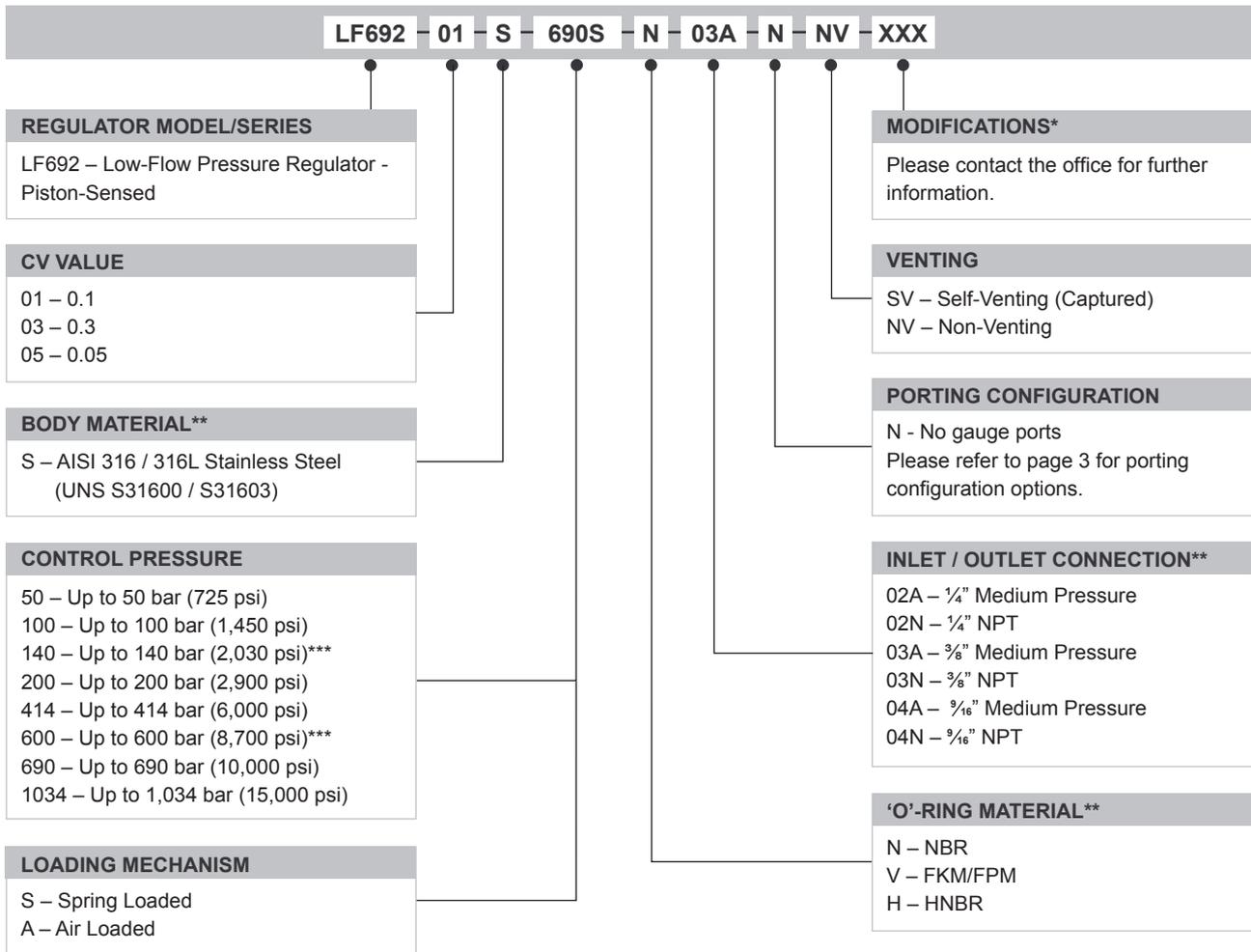
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ORDERING INFORMATION

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



| OPTIONAL EXTRAS | | |
|---------------------|-----------------------|----------------------------------|
| | PART NUMBER | DESCRIPTION |
| Service Kit | SRK-LF692... | Various options available |
| Panel Mounting Ring | PT-C-061-003-RING | Stainless Steel panel mount ring |
| Panel Mounting Ring | PT-C-061-003-001-RING | Aluminium panel mount ring |

Note: Ancillary equipment also available.

TRADEMARK: Tecasint® is a registered trademark of Ensinger GmbH

* Where applicable

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

*** Air loaded only

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