

# HYD690 Datasheet

LOW-FLOW 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 0.06



## INTRODUCING THE HYD690...

The HYD690 has been designed as an economical and compact alternative to the HYD691, yet still incorporates all of the key features of the larger regulator. It is a self-relieving with a segregated captured vent as standard.

It is perfectly equipped to provide the ultimate protection against the harsh service encountered on hydraulic services. When it is time for servicing, this be done easily from the spring section.

Typical applications include wellhead logic and control systems, valve test rigs and liquid sampling.

## 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	2.5kg (5.5lbs)

*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

### 1 ECONOMICAL

All of the great features of our HYD691, but with a lower cost price.

### 2 SEGREGATED CAPTURED VENT

Prevents deterioration to loading mechanism and allows media to be piped off to return tank.

### 3 COMPACT

Perfect for when installation space is restricted.

### 4 MAIN VALVE CARTRIDGE DESIGN

Easy and convenient to service.

## STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS
Body and Bonnet	ASTM A479 316/316L Stainless Steel (UNS S31600/S31603) <i>Approx. Temperatures: -196°C to 538°C</i>
Main Valve	Elgiloy® (UNS R30003) <i>Approx. Temperatures: -196°C to 450°C</i>
Seat	Tecasint <i>Approx. Temperatures: -196°C to 250°C</i>
Piston	ASTM A479 316/316L Stainless Steel
Handwheel	Nylon
O-Rings	NBR N70 (Nitrile Buna N) <i>Approx. Temperatures: -30°C to 120°C</i> FKM/FPM (Viton) <i>Approx. Temperatures: -20°C to 200°C</i>
Loading Spring	Silicon Chrome Wire

For the full list of material temperature ranges, please visit [www.pressure-tech.com](http://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.

**NOTE:** 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.



### PRESSURE TECH LTD

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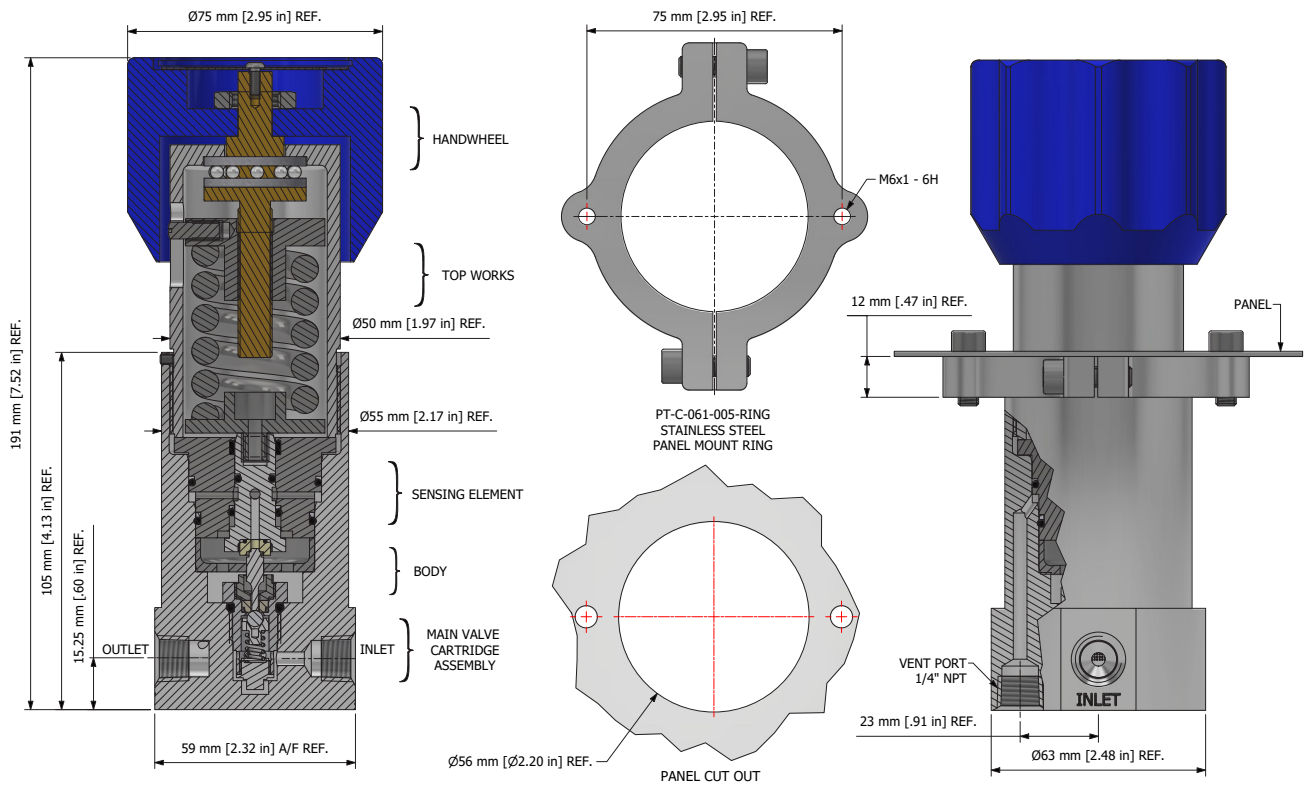
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## DRAWINGS AND INSTALLATION DIMENSIONS

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



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

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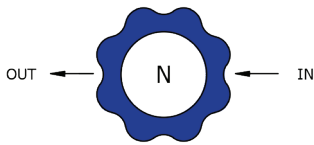


Gas  Liquid |  Diaphragm  Piston |  Self-Venting  Non-Venting | Max Inlet: 690 bar (10,000 psi) | Max Outlet: 690 bar (10,000 psi) | Cv 0.06

## FLOW CURVE

Please contact the office for further information.

## PORTING CONFIGURATIONS



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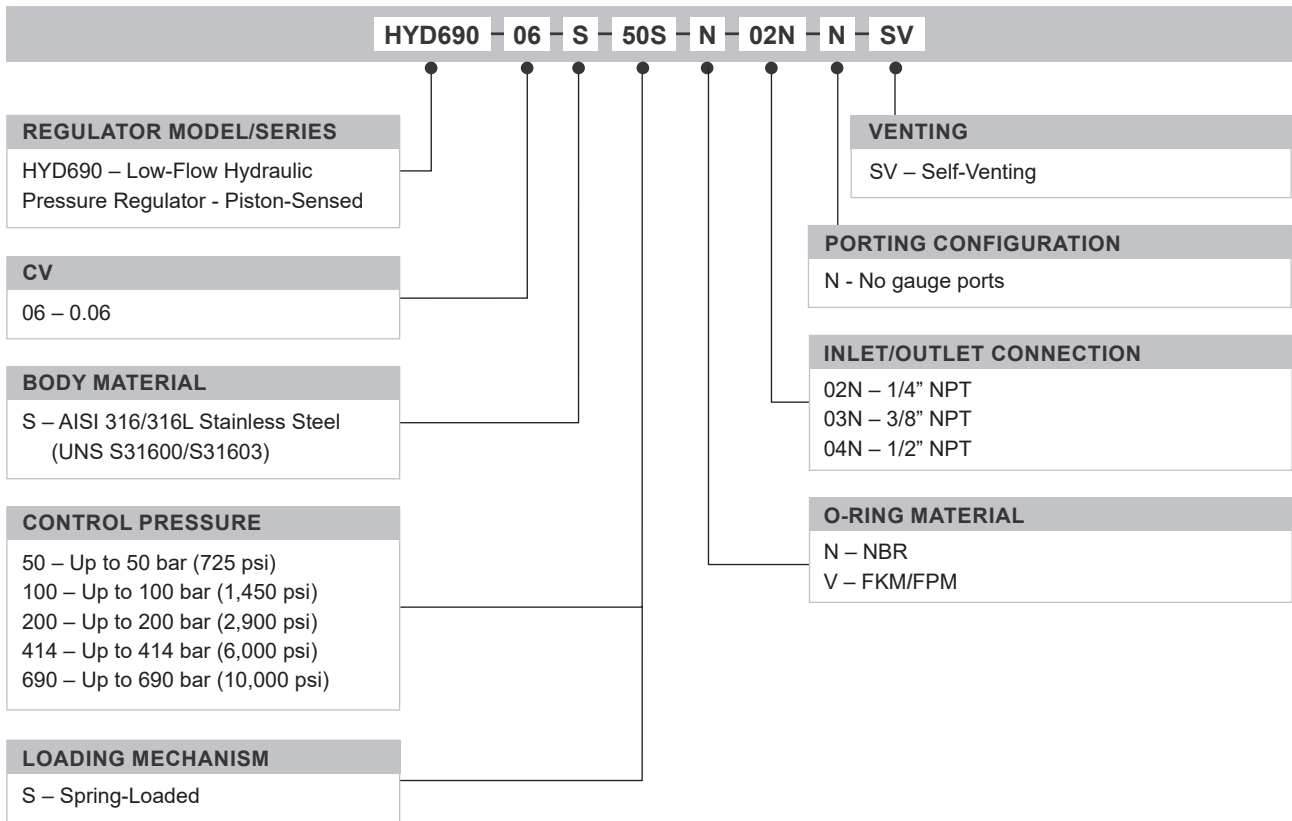
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## ORDERING INFORMATION

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



OPTIONAL EXTRAS		
	PART NUMBER	DESCRIPTION
Service Kit	SRK-HYD690...	Various options available
Panel Mounting Ring	PT-C-061-005-RING	Stainless Steel panel mount ring

*Note:*  
Ancillary Equipment also available.

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