LOW-FLOW HYDRAULIC PRESSURE REGULATOR





DiaphragmPiston

Self-Venting

Non-Venting

Max Inlet: 690 bar (10,000 psi)

Max Outlet: 690 bar (10,000 psi)

Cv 0.06



INTRODUCING THE HYD691...

The HYD691 is a low-flow hydraulic pressure regulator. Specifically targetting mineral oil applications, it has been designed as a compact and economical alternative to our LF690, yet still incorporates all of its key features including a ceramic seat. In comparison, the LF690 offers more extensive Cv options and caters for the harsh services encountered on water-based hydraulic applications such as water glycol.

Its ceramic ball has a 'glass-like' finish to provide a positive shut-off and is also fully supported to ensure fixed travel in the 'Y' axis. The HYD691 is self-relieving with a segregated captured vent as standard.

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	2.6kg (5.7lbs)

STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS
Body and Bonnet	ASTM A479 316/316L Stainless Steel (UNS S31600/S31603)
Main Valve Ball	Ceramic (Zirconia)
Soft Seat	Ceramic (Zirconia)
Valve Spring	Elgiloy® (UNS R30003)
Piston	ASTM A479 316/316L Stainless Steel
Handwheel	Nylon
O-Rings	NBR N70 (Nitrile Buna N)
Loading Spring	Silicon Chrome Wire

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

FEATURES AND BENEFITS

1 CERAMIC SEATING DESIGN

Hard-wearing material for extended durability.

SEGREGATED CAPTURED VENT

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

COMPACT DESIGN

Perfect for when installation space is restricted.

MAIN VALVE **CARTRIDGE DESIGN**

> Easy and convenient to service.

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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Gas • Liquid

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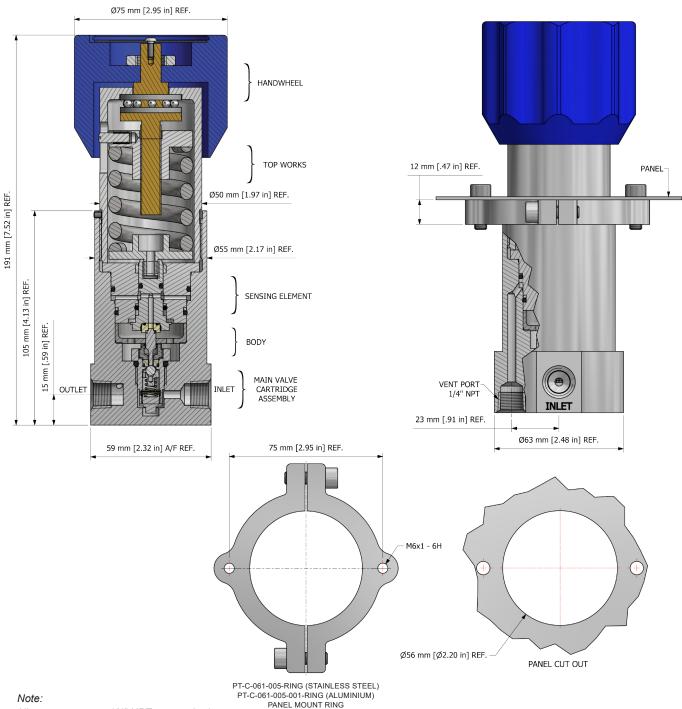
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DRAWINGS AND INSTALLATION DIMENSIONS

Dimensions shown for 1/4" NPT optionand standard configurations only – please contact the office for other options.



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

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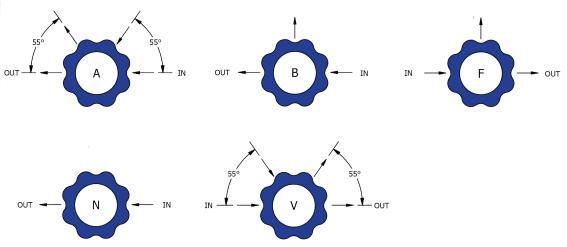
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FLOW CURVE

Please contact the office for further information.

PORTING CONFIGURATIONS



Notes:

Additional porting configurations are available - please contact the office for further information.

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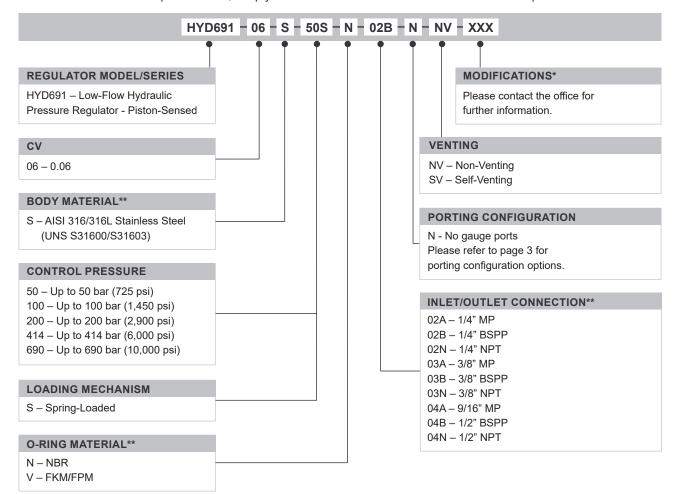
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ORDERING INFORMATION

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



	PART NUMBER	DESCRIPTION	
Service Kit	SRK-HYD691	Various options available	
Panel Mounting Ring	PT-C-061-005-RING	Stainless Steel panel mount ring	
Panel Mounting Ring	PT-C-061-005-001-RING	Aluminium panel mount ring	

^{*} Where applicable

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^{**} Other materials/connections may be available - please contact the office