LOW-FLOW HYDRAULIC PRESSURE REGULATOR



Gas • Liquid

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)

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 316/316L Stainless Steel (UNS S31600/S31603) Approx. Temperatures: -196°C to 538°C
Main Valve Ball	Ceramic (Zirconia) Approx. Temperatures: 38°C to 800°C
Soft Seat	Ceramic (Zirconia)
Valve Spring	Elgiloy® (UNS R30003) Approx. Temperatures: -196°C to 450°C
Piston	ASTM A479 316/316L Stainless Steel
Handwheel	Nylon
O-Rings	NBR N70 (Nitrile Buna N) Approx. Temperatures: -30°C to 120°C
Loading Spring	Silicon Chrome Wire

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

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.

3 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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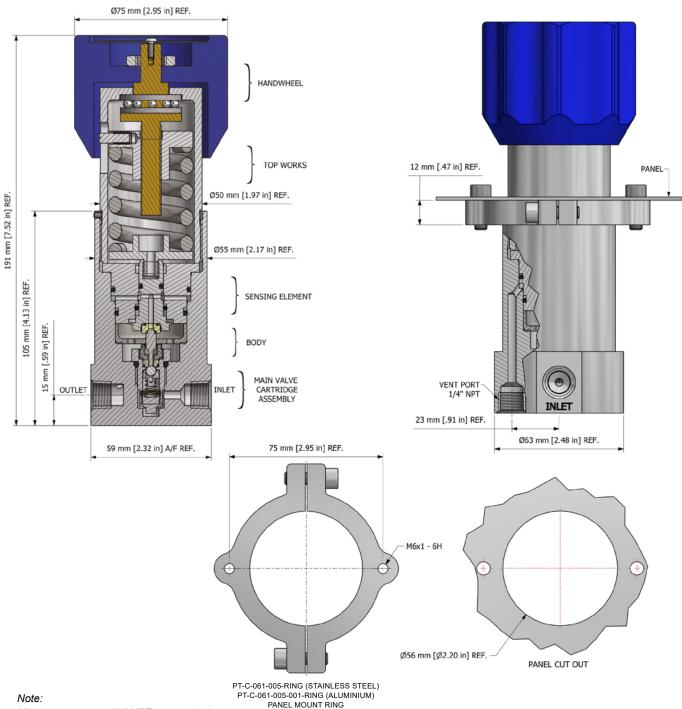
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DRAWINGS AND INSTALLATION DIMENSIONS

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



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

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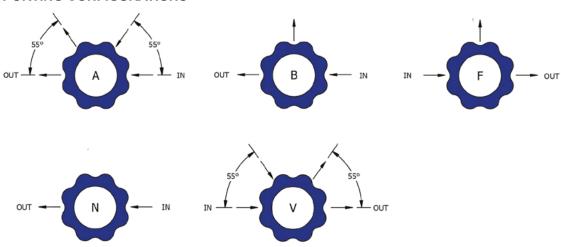
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FLOW CURVE

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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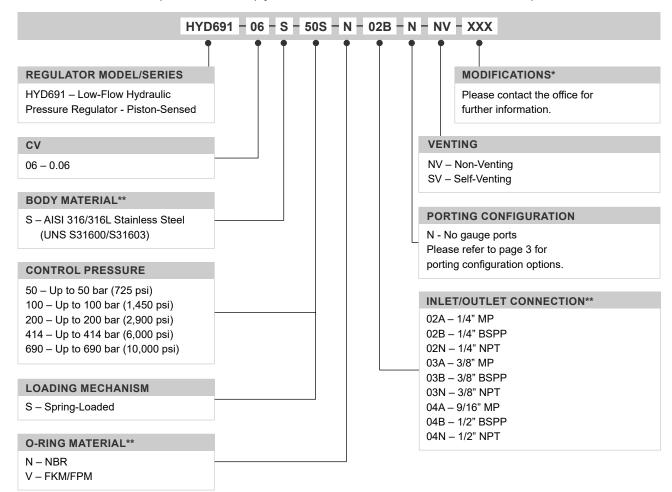
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ORDERING INFORMATION

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