LOW-FLOW HYDRAULIC PRESSURE REGULATOR



STANDARD MATERIALS OF CONSTRUCTION

MATERIALS

(UNS S31600/S31603)

Elgiloy® (UNS R30003)

NBR N70 (Nitrile Buna N)

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.

Ceramic (Zirconia)

Ceramic (Zirconia)

Nylon

ASTM A479 316/316L Stainless Steel

ASTM A479 316/316L Stainless Steel

🔵 Gas 💿 Liquid	 Diaphragm 	• Piston	● Se Ve
----------------	-------------------------------	----------	------------

elfenting • Venting

Max Inlet: 690 bar (10,000 psi)

PART

Body and Bonnet

Main Valve Ball

Soft Seat

Piston

Valve Spring

Handwheel

Loading Spring

O-Rings

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)

FEATURES AND BENEFITS

4	CERAMIC SEATING DESIGN
	DESIGN

Hard-wearing material for extended durability.

2 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.



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

Unit 24, Graphite Way, Hadfield, Glossop, Derbyshire, UK, SK13 1QH +44 (0)1457 899 307 | <u>sales@pressure-tech.com</u> | <u>www.pressure-tech.com</u> **DESIGNED, MANUFACTURED AND BUILT IN THE UK** © 2024 Pressure Tech Ltd. All Rights Reserved.



LOW-FLOW HYDRAULIC PRESSURE REGULATOR



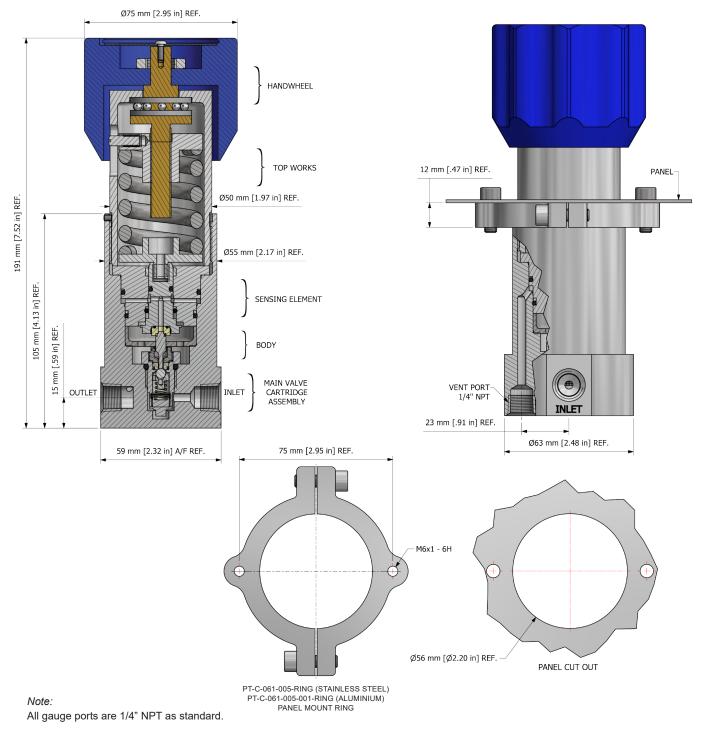
PRESSURE TECH

PAGE:

2 OF 4

DRAWINGS AND INSTALLATION DIMENSIONS

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



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.



Unit 24, Graphite Way, Hadfield, Glossop, Derbyshire, UK, SK13 1QH +44 (0)1457 899 307 | sales@pressure-lech.com | www.pressure-tech.com DESIGNED, MANUFACTURED AND BUILT IN THE UK © 2024 Pressure Tech Ltd. All Rights Reserved.

PRESSURE TECH LTD

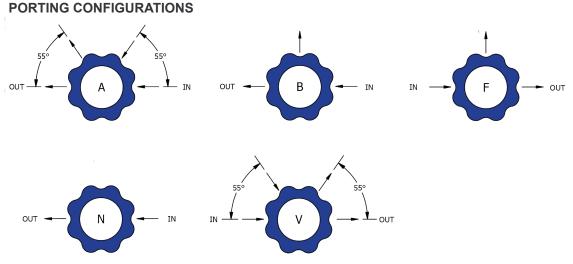
LOW-FLOW HYDRAULIC PRESSURE REGULATOR



● 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

FLOW CURVE

Please contact the office for further information.



Notes:

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

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

 Unit 24, Graphite Way, Hadfield, Glossop, Derbyshire, UK, SK13 1QH

 +44 (0)1457 899 307
 sales@pressure-tech.com

 DESIGNED, MANUFACTURED AND BUILT IN THE UK

 © 2024 Pressure Tech Ltd. All Rights Reserved.



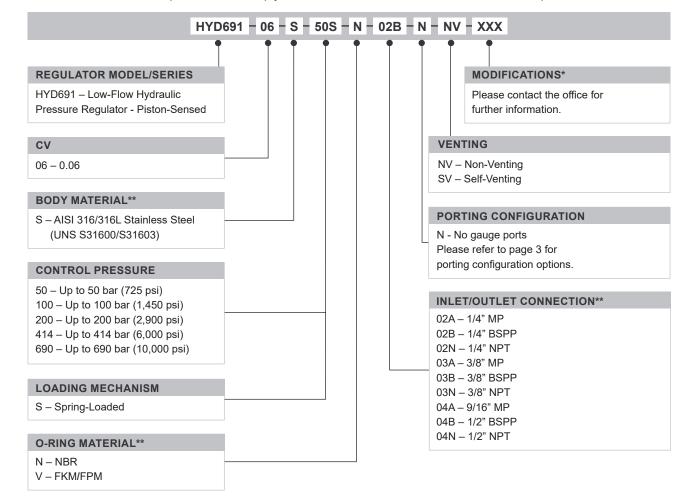
LOW-FLOW HYDRAULIC PRESSURE REGULATOR



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

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-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

Ancillary Equipment also available.

* Where applicable

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

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

Unit 24, Graphite Way, Hadfield, Glossop, Derbyshire, UK, SK13 1QH +44 (0)1457 899 307 | sales@pressure-tech.com | www.pressure-tech.com DESIGNED, MANUFACTURED AND BUILT IN THE UK © 2024 Pressure Tech Ltd. All Rights Reserved.

