LOW-PRESSURE HYDRAULIC REDUCING REGULATOR















Max Inlet: 414 bar (6,000 psi)

Max Outlet: 20 bar (290 psi)

Cv 0.3



INTRODUCING THE LGC690...

The LGC690 is a piston-sensed low-pressure hydraulic reducing regulator. It provides accurate control on Logic Control Systems used on Wellhead Control Panels where low deadband and repeatable pressure control is critical.

With a balanced main valve as standard, the LGC690 offers an easy to service main valve cartridge assembly and self-venting via its captured port.

SPECIFICATION

Max. Rated Inlet Pressure	414 bar (6,000 psi)
Outlet Ranges	Up to 20 bar (290 psi)
Design Proof Pressure	150% max. working pressure
Seat Leakage	In accordance with ANSI/FCI 70-3
Weight	3.5kg

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 Pin	ASTM A479 316/316L Stainless Steel
	Ceramic (Zirconia) Approx. Temperatures: 38°C to 800°C
Seat	PEEK [™] (450G) Approx. Temperatures: -50°C to 204°C
Valve Spring	ASTM A479 S42 Stainless Steel (UNS S43100) Approx. Temperatures: -196°C to 538°C
Piston	ASTM A479 316/316L Stainless Steel
Handwheel	Nylon
O-Rings	NBR N70 (Nitrile Buna N) Approx. Temperatures: -30°C to 120°C
	FKM/FPM (Viton) Approx. Temperatures: -20°C to 200°C
Loading Spring	ASTM A240 301 Stainless Steel (UNS S30100) Approx. Temperatures: -29°C to 370°C
Filter	40 Microns

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

1 40 MICRON INLET FILTER

First stage soft seat protection from system contamination.

2 PISTON SENSING ELEMENT

Perfect for use in challenging conditions. SEGREGATED **CAPTURED VENT**

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

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





PRESSURE TECH LTD

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

T +44 (0)1457 899 307

E sales@pressure-tech.com W www.pressure-tech.com

LOW-PRESSURE HYDRAULIC REDUCING REGULATOR



Gas Liquid

DiaphragmPiston

Self-Venting

Non-Venting

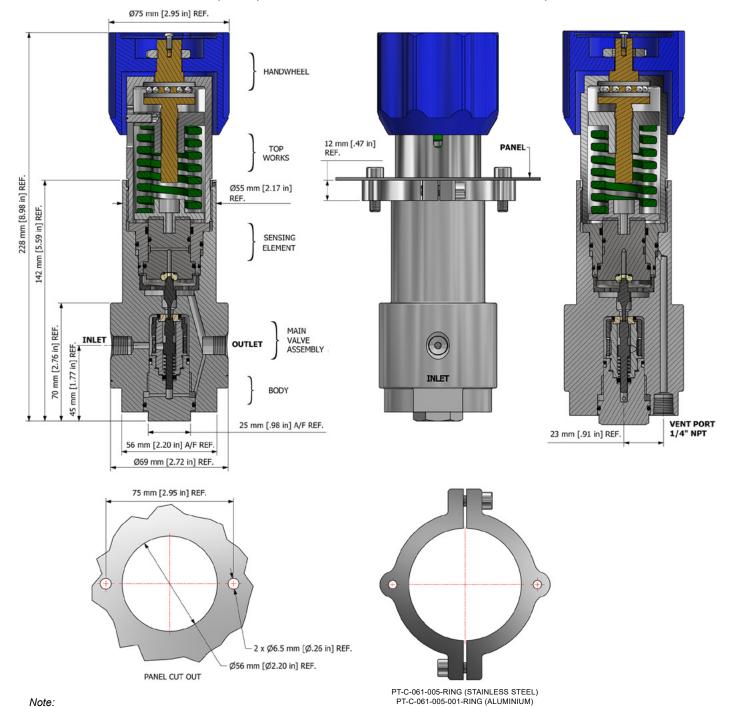
Max Inlet: 414 bar (6,000 psi)

Max Outlet: 20 bar (290 psi)

Cv 0.3

DRAWINGS AND INSTALLATION DIMENSIONS

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



Note:

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

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

PANEL MOUNT RING





PRESSURE TECH LTD

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

T +44 (0)1457 899 307

sales@pressure-tech.com

LOW-PRESSURE HYDRAULIC REDUCING REGULATOR



Gas • Liquid

DiaphragmPiston

Self-Venting

Non-Venting

Max Inlet: 414 bar (6,000 psi)

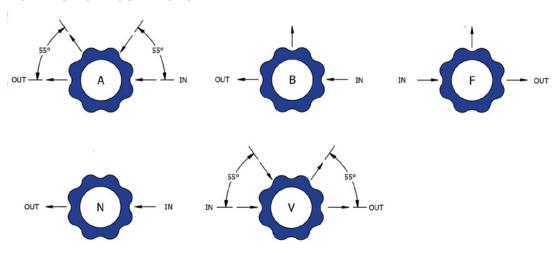
Max Outlet: 20 bar (290 psi)

Cv 0.3

FLOW CURVE

Please contact the office for further information.

PORTING CONFIGURATIONS



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

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.





LOW-PRESSURE HYDRAULIC REDUCING REGULATOR



Gas Liquid

DiaphragmPiston

Self-Venting

Non-Venting

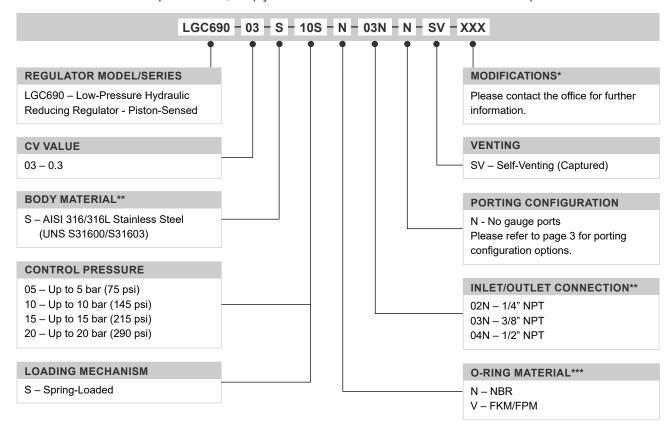
Max Inlet: 414 bar (6,000 psi)

Max Outlet: 20 bar (290 psi)

Cv 0.3

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-LGC690	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
Note: Ancillary equipment also available.		
Note: Anciliary equipment also available.		

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





^{*} Where applicable

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