LOW-FLOW PRESSURE REGULATOR















Max Inlet: 690 bar (10,000 psi)

Max Outlet: 690 bar (10,000 psi)

Cv 0.1



#### **INTRODUCING THE LF690...**

The LF690 is a piston-sensed low-flow reducing regulator with ceramic seating to provide the ultimate protection against the harsh service encountered on hydraulic applications such as water glycol.

Its unique seating cartridge ensures the main valve is fully supported during operation to prevent 'chattering'. The LF690 is supplied with a segregated captured vent to prevent deterioration to the loading mechanism and making the regulator easier to service.

### **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	4.8kg (10.6lbs)

#### STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS
Body and Bonnet	ASTM A479 316/316L Stainless Steel (UNS S31600/S31603)
Main Valve Pin	ASTM A479 316/316L Stainless Steel
Ivialii valve Fili	Ceramic (Zirconia)
Seat	Ceramic (Zirconia)
Valve Spring	ASTM A240 301 Stainless Steel (UNS S30100)
Piston	ASTM A479 316/316L Stainless Steel
Handwheel	Nylon
	NBR N70 (Nitrile Buna N)
O-Rings	FKM/FPM (Viton)
	HNBR (Hydrogenated NBR)
Loading Spring	Silicon Chrome Wire

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

### **FEATURES AND BENEFITS**

1 CERAMIC SEATING DESIGN

Provides the ultimate protection against cavitation on hydraulic services.

**FULLY SUPPORTED** MAIN VALVE

> Provides a dampening action to prevent 'chattering'.

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







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LOW-FLOW PRESSURE REGULATOR



Gas Liquid

DiaphragmPiston

Self-Venting

Non-Venting

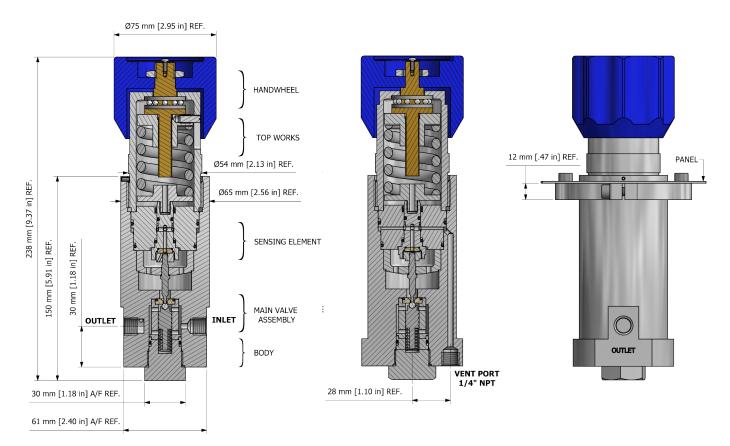
Max Inlet: 690 bar (10,000 psi)

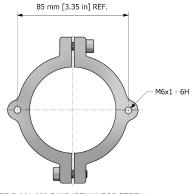
Max Outlet: 690 bar (10,000 psi)

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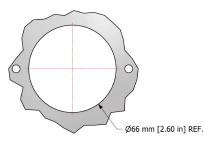
## **DRAWINGS AND INSTALLATION DIMENSIONS**

Dimensions shown for 1/4" NPT option and standard configurations only - please contact the office for other options.





PT-C-061-003-RING (STAINLESS STEEL) PT-C-061-003-001-RING (ALUMINIUM) PANEL MOUNT RING



PANEL CUT OUT

Note:

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

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LOW-FLOW PRESSURE REGULATOR





Gas Liquid









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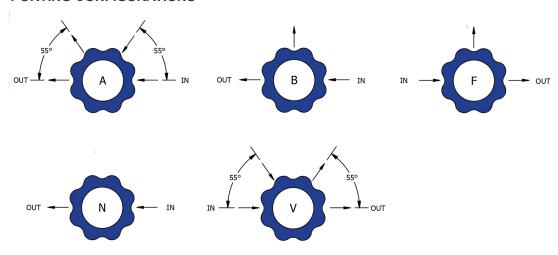
Max Outlet: 690 bar (10,000 psi)

Cv 0.1

## **FLOW CURVE**

Please contact the office for further information.

#### **PORTING CONFIGURATIONS**



Note:

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

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PRESSURE TECH LTD

LOW-FLOW PRESSURE REGULATOR



Gas Liquid

DiaphragmPiston

Self-VentingNon-Venting

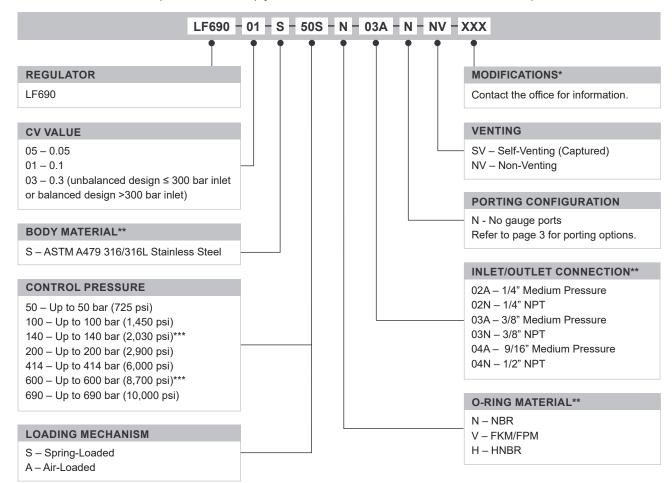
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## **ORDERING INFORMATION**

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



	PART NUMBER	DESCRIPTION
Service Kit	SRK-LF690	Various options available
Panel Mounting Ring	PT-C-061-003-RING	Stainless Steel panel mount ring
Panel Mounting Ring	PT-C-061-003-001-RING	Aluminium panel mount ring

\* Where applicable

\*\* Other materials / connections may be available

\*\*\* Air-loaded only

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