LF690 Datasheet

LOW-FLOW 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 0.1



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
	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, Cv and/or seat material. Contact the office for specific pressure or temperature requirements.

FEATURES AND BENEFITS

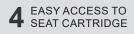
CERAMIC SEATING DESIGN

Provides the ultimate protection against cavitation on hydraulic services. 2 FULLY SUPPORTED MAIN VALVE

Provides a dampening action to prevent 'chattering'.



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



Simplified servicing through base of regulator.



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.

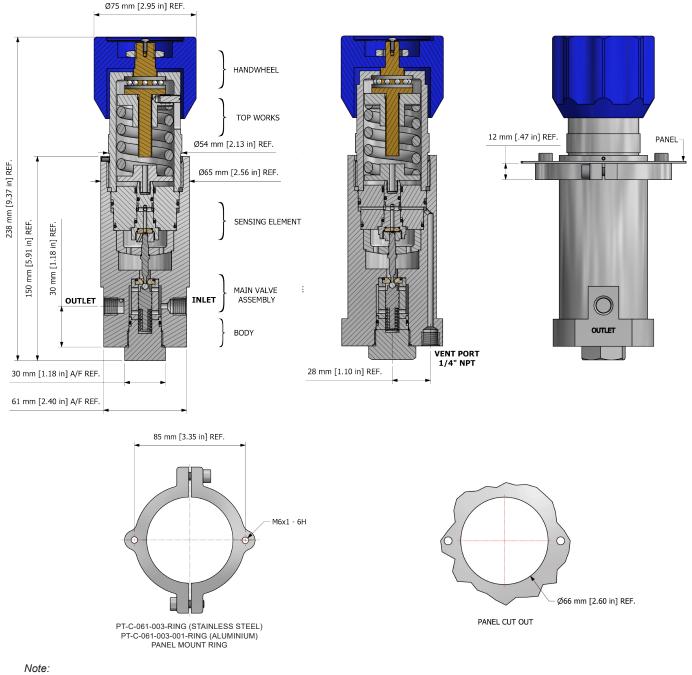
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DRAWINGS AND INSTALLATION DIMENSIONS

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



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

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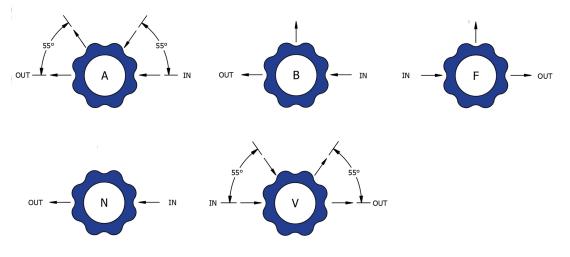
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FLOW CURVE

Please contact the office for further information.

PORTING CONFIGURATIONS



Note:

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

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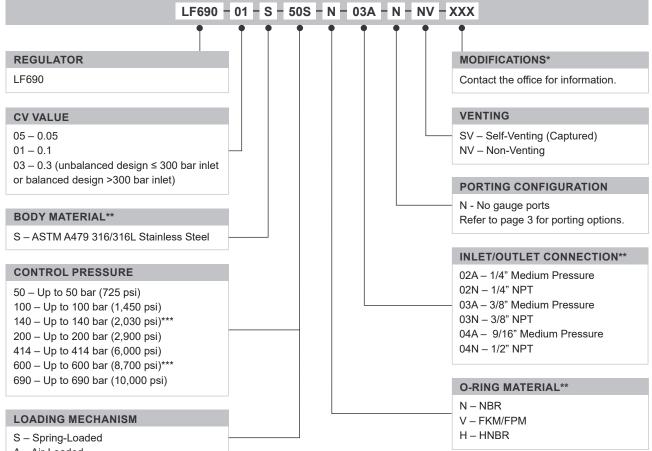
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Gas O Liquid Diaphragm	Piston Self- Ventir	g • Non- Venting	Max Inlet: 690 bar (10,000 psi)	Max Outlet: 690 bar (10,000 psi)	Cv 0.1

ORDERING INFORMATION

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



A - Air-Loaded

OPTIONAL EXTRAS				
	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		

*** Air-loaded only

* Where applicable ** Other materials / connections may be available

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