LF690 Datasheet

LOW-FLOW PRESSURE REGULATOR



🔵 Gas 💿 Liquid 📔 🔵	Diaphragm • Piston • Self- Venting	Non- Venting Max Inlet: 690 bar (10,000 ps	si) 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)

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

FEATURES AND BENEFITS

1 CERAMIC SEATING DESIGN

> Provides the ultimate protection against cavitation on hydraulic services.

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
	ASTM A479 316/316L Stainless Steel
Main Valve Pin	Ceramic (Zirconia) Approx. Temperatures: 38°C to 800°C
Seat	Ceramic (Zirconia)
Valve Spring	ASTM A240 301 Stainless Steel (UNS S30100) Approx. Temperatures: -29°C to 370°C
Piston	ASTM A479 316/316L Stainless Steel
Handwheel	Nylon
	NBR N70 (Nitrile Buna N) Approx. Temperatures: -30°C to 120°C
O-Rings	FKM/FPM (Viton) Approx. Temperatures: -20°C to 200°C
	HNBR (Hydrogenated NBR) Approx. Temperatures: -30°C to 180°C
Loading Spring	Silicon Chrome Wire

For the full list of material temperature ranges, please visit <u>www.pressure-tech.com</u>.

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.



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 <u>www.pressure-tech.com</u>

PAGE:



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.

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

0013 W <u>www.pressure-tech.com</u>

DESIGNED, MANUFACTURED AND BUILT IN THE UK





FLOW CURVE

Please contact the office for further information.

PORTING CONFIGURATIONS



Note:

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.



PRESSURE TECH LTD Unit 24, Graphite Way, Hadfield, Glossop, Derbyshire, UK, SK13 1QH T +44 (0)1457 899 307

E sales@pressure-tech.com

0013 W <u>www.pressure-tech.com</u>

DESIGNED, MANUFACTURED AND BUILT IN THE UK



LF690 Datasheet

LOW-FLOW PRESSURE REGULATOR



Gas OLiquid Diaphragm OF	Piston	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:



	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 - please contact the office

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

DESIGNED, MANUFACTURED AND BUILT IN THE UK

