

LF-690 Series

'Low Flow' Hydraulic Reducing Regulator Piston Sensed
for outlet control to 1380bar / 20000psi
Now with ceramic seating as standard



Product Overview

The LF-690 uses Ceramic Seating to provide ultimate protection against the harsh service encountered on hydraulic services. The unique seating cartridge provides a dampening action on this critical component to prevent 'chattering' or 'unstable frequency resonance'. The regulator is self relieving with segregated captured vent to prevent deterioration to the loading mechanism and making the regulator cleaner to service. The seating area can easily be accessed from the base of the regulator for speedy servicing in situ.

Applications

- Wellhead logic and control systems
- Subsea valve actuator control
- Valve test rigs
- Liquid sampling
- Hydraulic Power Packs

Features

- 1380bar/20,000psi inlet pressure
- Ceramic seating for ultimate resistance against cavitation and erosion
- Precision machined sensing elements
- 5 Sensor ranges for combination of low torque and high sensitivity
- Segregated captured vent 316SS Panel mounting rings
- Optional Cv 0.3 for quick fill umbilical systems

Standard materials of construction

Regulator part	Material
Body	316SS or 17-4PH SS
Bonnet	316SS
Main valve	Ceramic TX2000
Seat	Ceramic TX3000
Valve spring	302SS
Sensor and Holder	316SS
Handwheel	Nylon
Baffle Plate	316SS
Spring rests	316SS
'O' ring seals	NBR, Viton or EPDM
Adjusting screw	Alu Bronze
Loading Spring	Spring Steel
Bottom Nut	316SS
Lubricant	Krytox GPL 205

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. **pg 1 of 2**



DESIGNED AND BUILT IN THE UK

PRESSURE TECH LTD, Unit 24, Graphite Way,
Hadfield, Glossop, Derbyshire SK13 1QH
Tel: +44 (0)1457 899307 Fax: +44 (0)1457 899308
e-mail: info@pressure-tech.com

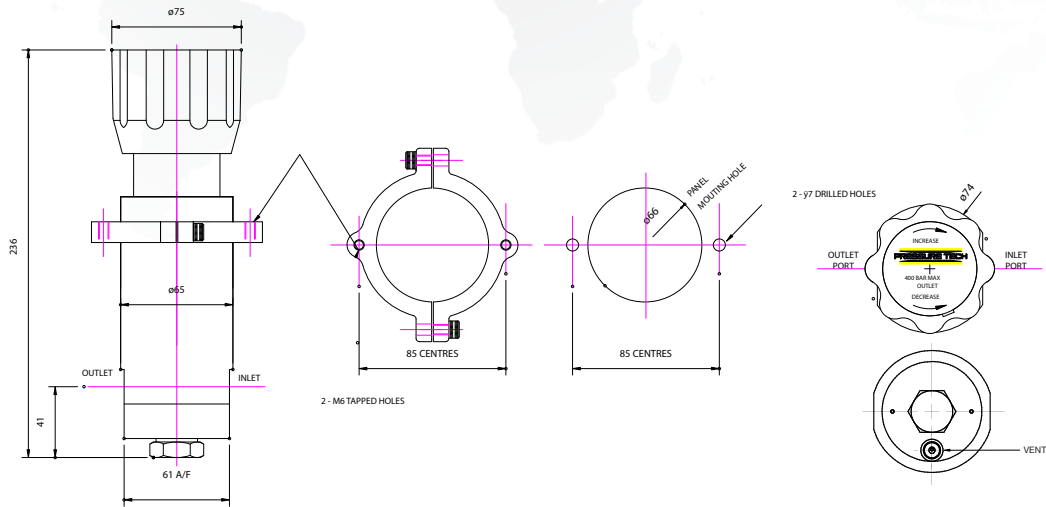
www.pressure-tech.com

LF-690 Series

'Low Flow' Hydraulic Reducing Regulator Piston Sensed
for outlet control to 1380bar / 20000psi
Now with ceramic seating as standard

PRESSURE TECH

Drawing and Installation Dimensions



Specification

Max rated inlet pressure	1380bar / 20,000psi
Max Outlet ranges	Piston: 1380bar / 20,000psi
Design proof pressure	150% max WP
Leakage	Zero drops of water at max inlet
Weight	Approx 4kg (without flanges)

Ordering Information:

LF691 - 01 - S - 862S - N - 03A - N - SV - MOD (OPTIONS)

Basic Model

LF690 - Max inlet: 690bar
LF691 - Max inlet: 1380bar - refer body material

Cv Value

01 - 0.1
05 - 0.05
03 - 0.3 (Max 1034bar)

Body material

S - 316SS (690bar or 1034bar inlet)
R - 17-4PH (1380bar inlet)

Outlet ranges

50S: 0 - 50bar
100S: 0 - 100bar
200S: 0 - 200bar
414S: 0 - 414bar
690S: 0 - 690bar
862S: 0 - 862bar
1034S: 0 - 1034bar
1380S: 0 - 1380bar
140A: 0 - 140bar (Air actuated)
600A: 0 - 600bar (Air actuated)
1034A: 0 - 1034bar (Air actuated)

Optional Panel Mounting Ring: PT-C-061-003-RING

Refer to office for details

Venting Options

SV - Self Venting
NV - Non Venting

Porting configuration

Refer office

Inlet/outlet connections

02N - 1/4" NPT (Max 690bar)
03N - 3/8" NPT (Max 690bar)
04N - 1/2" NPT (Max 690bar)
03A - 3/8" Medium Pressure
04A - 9/16 Medium Pressure

O Ring

N - NBR
V - Viton
E - EPDM
H - Hydrogenated Buna

NOTE: Pressure Tech reserve the right to amend dimensions and product detail as part of our commitment to achieve product realisation. Product selection is based on compatibility information and any prior user experience. Unless otherwise and specifically agreed, Pressure Tech cannot guarantee the suitability of product on individual applications, and this remains the users responsibility. **pg 2 of 2**



DESIGNED AND BUILT IN THE UK

PRESSURE TECH LTD, Unit 24, Graphite Way,
Hadfield, Glossop, Derbyshire SK13 1QH
Tel: +44 (0)1457 899307 Fax: +44 (0)1457 899308
e-mail: info@pressure-tech.com

www.pressure-tech.com