

# LF792 Datasheet

## LOW-FLOW PRESSURE REGULATOR



Gas  
  Liquid  
  Diaphragm  
  Piston  
  Self-Vent  
  Non-Vent  
 Max Inlet: 1,034 bar (15,000 psi)  
 Max Outlet: 1,034 bar (15,000 psi)  
 Cv 0.1



### INTRODUCING THE LF792...

The LF792 is a piston-sensed low-flow pressure regulator with a Tecasint® seat for use on high pressure gases. It uses a range of precision-machined sensing elements for pressure control up to 1,034 bar (15,000 psi) and offers the same great features as the LF692, but with enhanced support on the seat cartridge.

The LF792 features an unbalanced main valve as standard. Alternatively, a balanced option can be supplied.

#### Note for Hydrogen Gas only:

Max. inlet up to 690 bar - 316/316L Stainless Steel body  
 Max. inlet above 690 bar - 660 Type 1 Stainless Steel body

### SPECIFICATION

Outlet Ranges	Up to 1,034 bar (15,000 psi)
Design Proof Pressure	150% max. working pressure
Seat Leakage	In accordance with ANSI/FCI 70-3
Weight	4.5kg (9.9lbs)

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

#### 1 PISTON SENSING ELEMENT

Perfect for use in challenging conditions.

#### 2 ENHANCED SUPPORT ON THE SEAT

Offers prolonged service life.

#### 3 SEGREGATED CAPTURED VENT

Prevents deterioration to loading mechanism. Allows media to be piped off to return tank. Ideal for toxic or hazardous gases.

#### 4 EASY ACCESS TO SEAT CARTRIDGE

Simplified servicing through base of regulator.

### STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS
Body and Bonnet	ASTM A479 316/316L Stainless Steel (UNS S31600/S31603)
	ASTM A638/A638M 660 Type 1 Stainless Steel (UNS S66286)
	ASTM 17-4 PH Stainless Steel (UNS S17400)
Main Valve Pin	Inconel® 718 (UNS N07718)
Seat	Tecasint® (2011)
Valve Spring	ASTM A240 301 Stainless Steel (UNS S30100)
Piston	ASTM A479 316/316L Stainless Steel
Handwheel	Nylon
O-Rings	NBR N70 (Nitrile Buna N)
Loading Spring	Silicon Chrome Wire

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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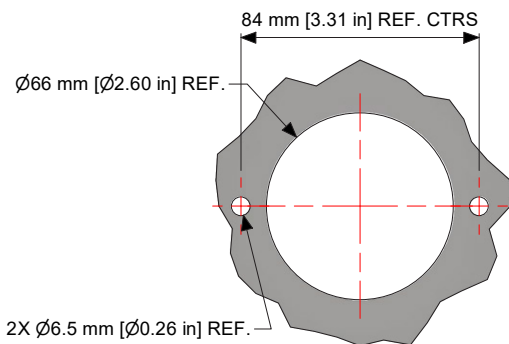
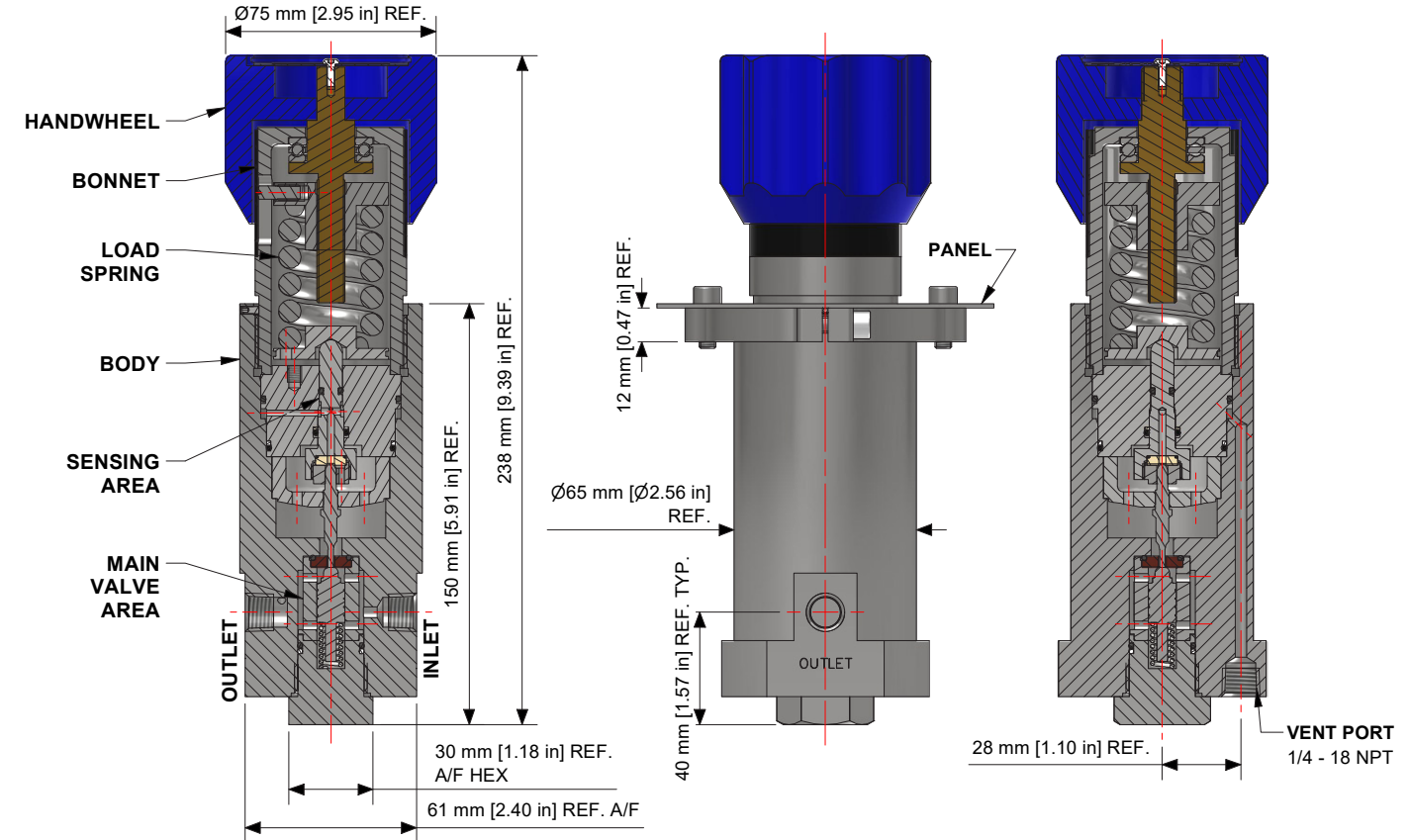
LOW-FLOW PRESSURE REGULATOR



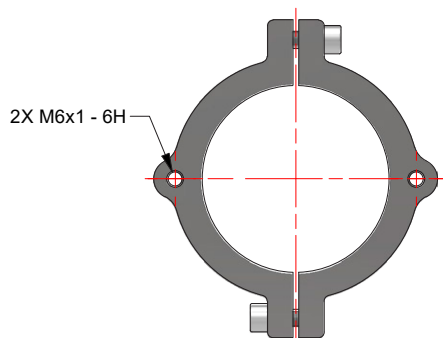
● Gas ● Liquid | 
 ● Diaphragm ● Piston | 
 ● Self-Vent ● Non-Vent | 
 Max Inlet: 1,034 bar (15,000 psi) | 
 Max Outlet: 1,034 bar (15,000 psi) | 
 Cv 0.1

## DRAWINGS AND INSTALLATION DIMENSIONS

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



**PANEL CUTOUT**



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

**Note:**  
All gauge ports are 1/4" NPT as standard. Maximum 690 bar (10,000 psi) supply pressure on NPT - use MP for higher pressures.

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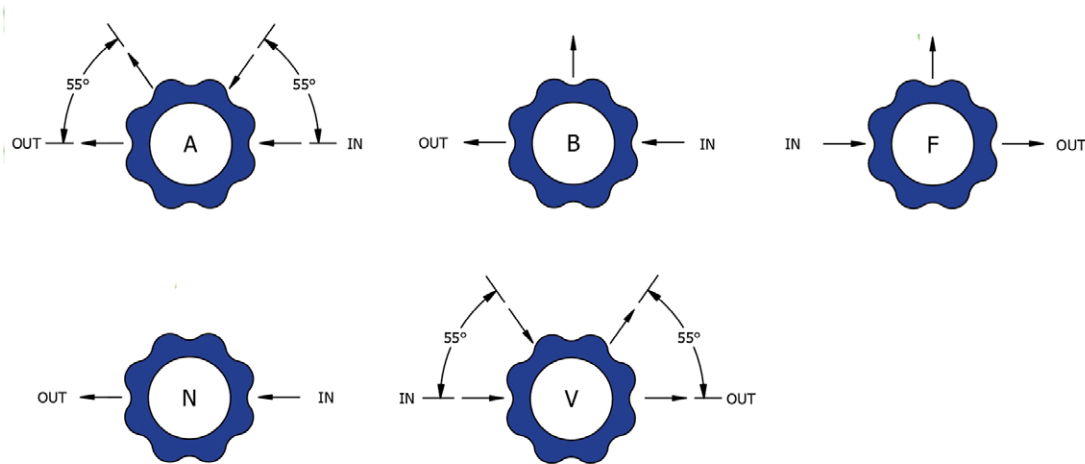


● Gas ● Liquid | ● Diaphragm ● Piston | ● Self-Vent ● Non-Vent | Max Inlet: 1,034 bar (15,000 psi) | Max Outlet: 1,034 bar (15,000 psi) | Cv 0.1

## 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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### ORDERING INFORMATION

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

<b>LF792 - 01 - S - 690S - N - 03A - N - NV - XXX</b>	
<p><b>REGULATOR MODEL/SERIES</b></p> <p>LF792 – Low-Flow Reg - Piston-Sensed</p>	<p><b>MODIFICATIONS*</b></p> <p>Contact the office for information.</p>
<p><b>CV VALUE</b></p> <p>05 – 0.05 01 – 0.1 03 – 0.3 (Balanced Design Only)</p>	<p><b>VENTING</b></p> <p>SV – Self-Venting (Captured) NV – Non-Venting</p>
<p><b>BODY MATERIAL**</b></p> <p>S – ASTM A479 316/316L Stainless Steel <b>For Gas incl. Hydrogen</b> (max. inlet 690 bar/10,000 psi) Q – ASTM A638/A638M 660 Type 1 Stainless Steel <b>For Hydrogen Gas</b> (max. inlet above 690bar/10,000psi to 1,034 bar/15,000 psi) R - ASTM 17-4 PH Stainless Steel <b>Not for Hydrogen Gas</b> (max. inlet above 690bar /10,000psi to 1,034 bar/15,000 psi)</p>	<p><b>PORTING CONFIGURATION</b></p> <p>N - No gauge ports Refer to page 3 for porting options.</p>
<p><b>CONTROL PRESSURE</b></p> <p>50 – Up to 50 bar (725 psi) 100 – Up to 100 bar (1,450 psi) 140 – Up to 140 bar (2,030 psi)*** 200 – Up to 200 bar (2,900 psi) 414 – Up to 414 bar (6,000 psi) 600 – Up to 600 bar (8,700 psi)*** 690 – Up to 690 bar (10,000 psi) 1034 – Up to 1,034 bar (15,000 psi)</p>	<p><b>INLET/OUTLET CONNECTION**</b></p> <p>02A – 1/4" Medium Pressure 02N – 1/4" NPT**** 03A – 3/8" Medium Pressure 03N – 3/8" NPT**** 04A – 9/16" Medium Pressure 04N – 1/2" NPT****</p>
<p><b>LOADING MECHANISM</b></p> <p>S – Spring-Loaded A – Air-Loaded</p>	<p><b>O-RING MATERIAL**</b></p> <p>N – NBR V – FKM/FPM H – HNBR</p>

OPTIONAL EXTRAS		
Service Kit	SRK-LF792...	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

*Note:* Ancillary equipment also available.

**TRADEMARK:** Tecasint® is a registered trademark of Ensinger GmbH

\* Where applicable  
 \*\* Other connections/materials may be available - please contact the office  
 \*\*\* Air-loaded only  
 \*\*\*\* Max. 690 bar (10,000 psi) supply pressure on NPT - use MP for higher pressures

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