

LF540 Datasheet

LOW-FLOW PRESSURE REGULATOR



● Gas ● Liquid | ● Diaphragm ● Piston | ● Self-Venting ● Non-Venting | Max Inlet: 690 bar (10,000 psi) | Max Outlet: 414 bar (6,000 psi) | Cv 0.1



INTRODUCING THE LF540...

The LF540 is a compact and economical piston-sensed, low-flow regulator with precision machined sensing elements to allow fine pressure control up to 414 bar (6,000 psi).

Its load bearings and large handwheel offer low torque adjustment, and the LF540 can be supplied as non-venting or self-venting, non-captured (on gas only).

SPECIFICATION

Max. Rated Inlet Pressure	690 bar (10,000 psi)
Outlet Ranges	Up to 414 bar (6,000 psi)
Design Proof Pressure	150% max. working pressure
Seat Leakage	In accordance with ANSI/FCI 70-3
Weight	2.3kg (5lbs)

STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS
Body and Bonnet	AISI 316 / 316L Stainless Steel (UNS S31600 / S31603)
Main Valve Pin	AISI 316 / 316L Stainless Steel (UNS S31600 / S31603)
Soft Seat	PEEK™
Valve Spring	AISI 316 S42 Stainless Steel
Piston	AISI 316 / 316L Stainless Steel (UNS S31600 / S31603)
Handwheel	Nylon
'O'-Ring Seals	FKM / FPM
Loading Spring	Silicon Chrome Wire
Filter	40 Microns

FEATURES AND BENEFITS

1 PISTON SENSING ELEMENT

Perfect for use in challenging conditions.

2 PRECISION MACHINED SENSING ELEMENT

For accurate pressure control.

3 COMPACT DESIGN

Perfect for when installation space is restricted.

4 SELF-VENTING OR NON-VENTING

Versatile use for a wide range of applications.

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.



DESIGNED AND BUILT IN THE UK



PRESSURE TECH LTD

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PAGE:
1 OF 4

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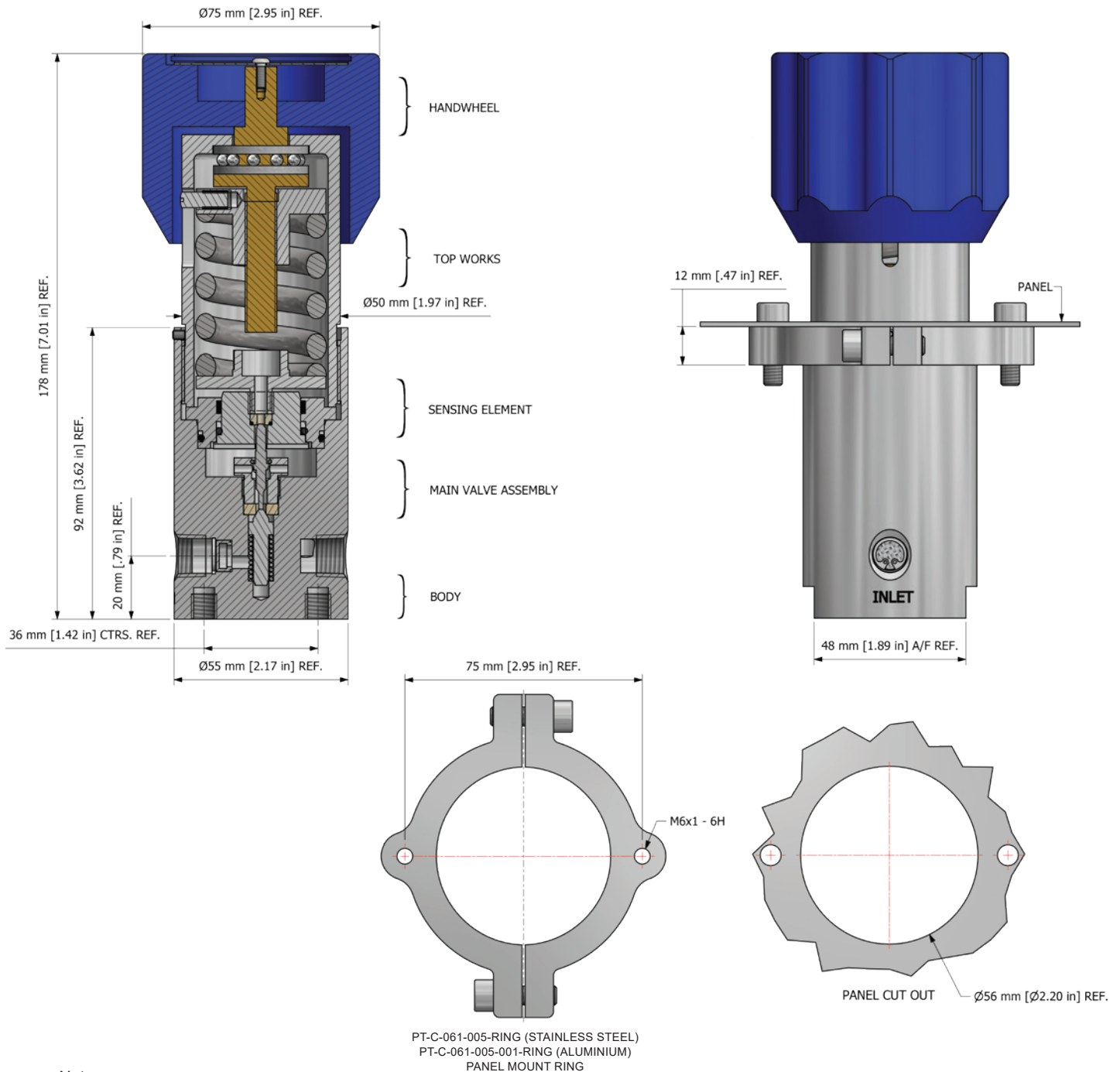
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DRAWINGS AND INSTALLATION DIMENSIONS

Dimensions shown for 1/4" NPT option - please contact the office for additional connections options.



Note:

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

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PAGE:
2 OF 4

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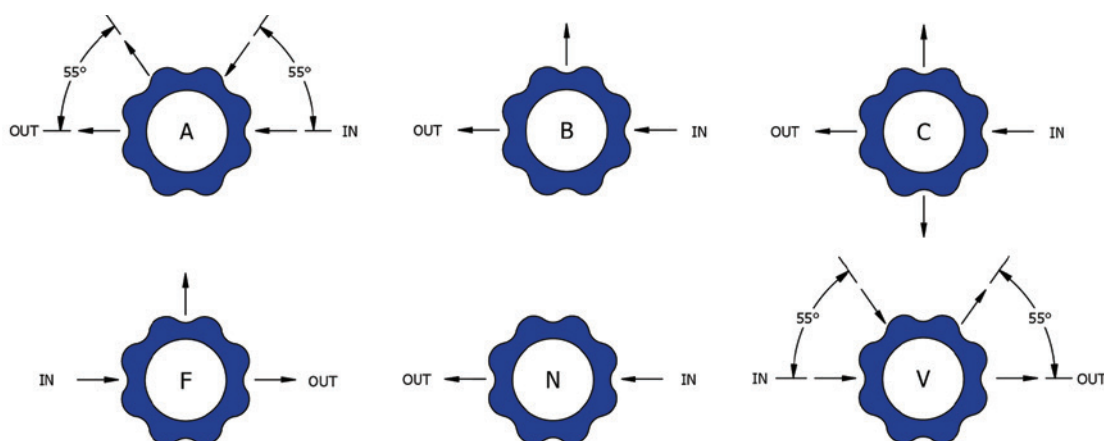


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FLOW CURVE

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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PAGE:
3 OF 4

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ORDERING INFORMATION

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

LF540 - 01 - S - 50S - N - 02N - N - NV - XXX									
REGULATOR MODEL/SERIES LF540 – Low-Flow Pressure Regulator - Piston-Sensed			MODIFICATIONS* Please contact the office for further information.						
CV VALUE 01 – 0.1 02 – 0.2 (Max. inlet 550 bar / 7,975 psi) 03 – 0.3** (Max. inlet 300 bar / 4,350 psi) 05 – 0.05			VENTING NV – Non-Venting SV – Self-Venting						
BODY MATERIAL*** S – AISI 316 / 316L Stainless Steel (UNS S31600 / S31603)			PORTING CONFIGURATION N - No gauge ports Please refer to page 3 for porting configuration options.						
CONTROL PRESSURE 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)****/*****			IN/OUT CONNECTION SIZE*** 02 – 1/4" 03 – 3/8"						
LOADING MECHANISM S – Spring Loaded A – Air Actuated			IN/OUT CONNECTION TYPE*** B – BSP N – NPT						
			O-RING MATERIAL*** N – NBR V – FKM / FPM E – EPDM						

OPTIONAL EXTRAS

	PART NUMBER	DESCRIPTION
Service Kit	SRK-LF540...	Various options available
Panel Mounting Ring	PT-C-061-005-RING	Stainless Steel panel mount ring
Panel Mounting Ring	PT-C-061-005-001-RING	Aluminium panel mount ring

Note:

Ancillary equipment also available

TRADEMARKS: PEEK™ is a trademark of Victrex PLC

* Where applicable

** Non-venting only on Cv 0.3

*** Other materials may be available - please contact the office

**** Air loaded only

***** Increased supply pressure

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PAGE:
4 OF 4