

LF311 Datasheet

LOW-FLOW PRESSURE REGULATOR



Gas
 Liquid
 Diaphragm
 Piston
 Self-Venting
 Non-Venting
 Max Inlet: 414 bar (6,000 psi)
 Max Outlet: 180 bar (2,610 psi)
 Cv 0.06



Image for illustration purposes only

INTRODUCING THE LF311...

The LF311 is a single-stage piston-sensed pressure regulator for applications that require higher supply pressures in addition to an extended life cycle.

Based on the LF301, the LF311 also offers a 'solid disk' seat design which is more robust for aggressive or high temperature applications.

SPECIFICATION

Max. Rated Inlet Pressure	414 bar (6,000 psi)
Outlet Ranges	Up to 180 bar (2,610 psi)
Design Proof Pressure	150% max. working pressure
Seat Leakage	In accordance with ANSI/FCI 70-3
Weight	0.9kg (2lbs)

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™ or PCTFE
Valve Spring	Inconel® X750
Piston	AISI 316 / 316L Stainless Steel (UNS S31600 / S31603)
Handwheel	Nylon
'O'-Ring Seals	FKM / FPM
Loading Spring	AISI 302 Stainless Steel (UNS S30200)
Filter	40 Microns

FEATURES AND BENEFITS

1 PISTON SENSING ELEMENT

Perfect for use in challenging conditions.

2 316SS THREADED BONNET

For panel mounting option as standard.

3 40 MICRON INLET FILTER

First stage soft seat protection from system contamination.

4 SOLID DISK SEAT DESIGN

Robust design enabling higher inlet pressures of up to 414 bar (6,000 psi).

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

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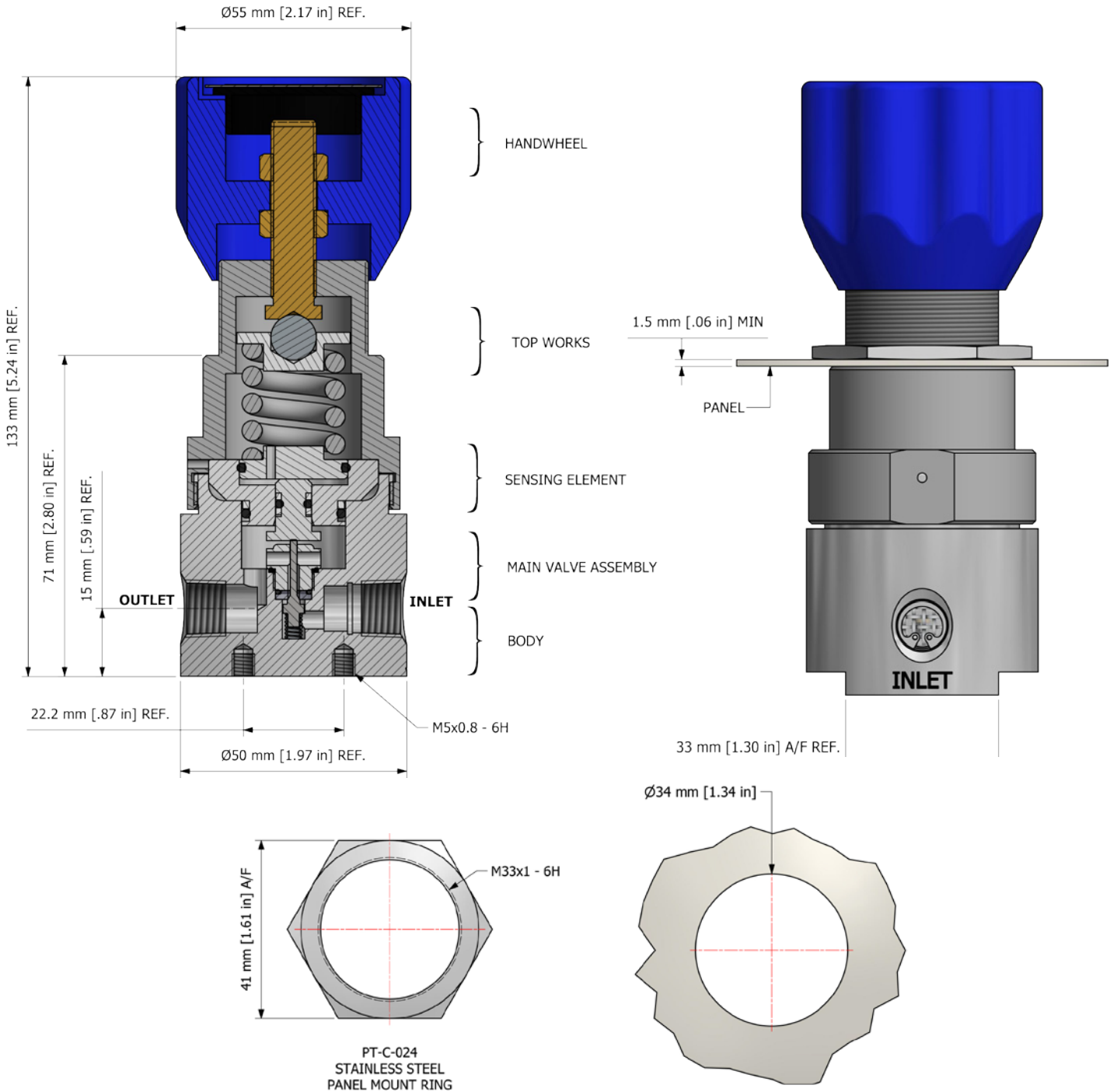
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DRAWINGS AND INSTALLATION DIMENSIONS



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

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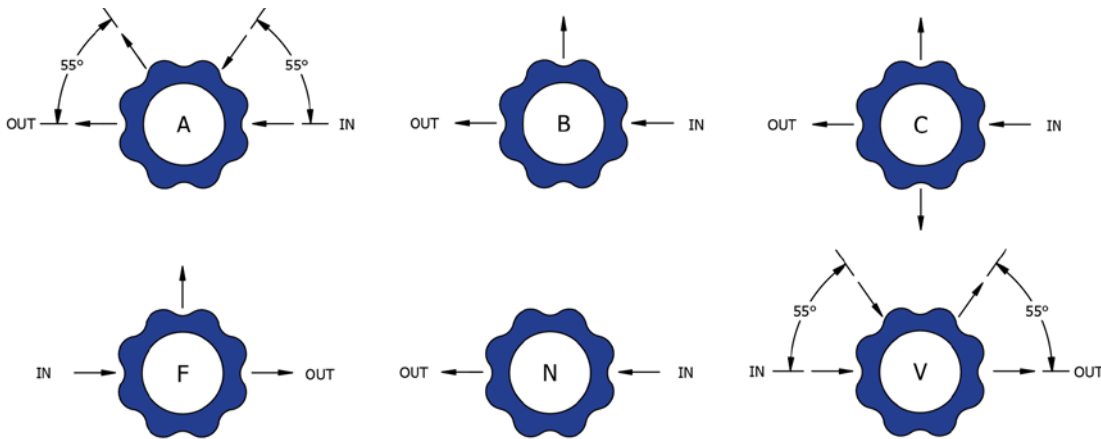
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FLOW CURVE

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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ORDERING INFORMATION

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

LF311 - 06 - S - 50 - N - P - N - XXX	
REGULATOR MODEL/SERIES LF311 – Single-Stage Pressure Regulator - Piston-Sensed	MODIFICATIONS* Please contact the office for further information.
CV VALUE 06 – 0.06 15 – 0.15 (max. inlet 50 bar / 725psi)	PORTING CONFIGURATION N - No gauge ports Please refer to page 3 for porting configuration options.
BODY MATERIAL** S – AISI 316 / 316L Stainless Steel (UNS S31600 / S31603) B – HT Brass (CW721R) H – Hastelloy® (UNS N10276)	SEAT MATERIAL** F – FEP (50 bar / 725 psi inlet) K – PCTFE (300 bar / 4350 psi inlet) P – PEEK™ (414 bar / 6000 psi inlet)
CONTROL PRESSURE 50 – 0 to 50 bar (0 to 725 psi) 100 – 0 to 100 bar (0 to 1,450 psi) 180 – 0 to 180 bar (0 to 2,610 psi)	O-RING MATERIAL** N – NBR V – FKM / FPM

OPTIONAL EXTRAS		
	PART NUMBER	DESCRIPTION
Service Kit	SRK-LF311...	Various options available
Panel Mounting Ring	PT-C-024	-

Note:
Ancillary equipment also available

TRADEMARKS: PEEK™ is a trademark of Victrex PLC
 Inconel® is a registered trademark of Inco Alloys International
 Hastelloy® is a registered trademark of Haynes International, Inc

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

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