

LF-300 Datasheet

LOW-FLOW PRESSURE REGULATOR



● Gas ● Liquid | ● Diaphragm ● Piston | ● Self-Venting ● Non-Venting | Max Inlet: 300bar (4,350psi) | Max Outlet: 35bar (510psi) | Cv 0.06



INTRODUCING THE LF-300...

The LF-300 is a single-stage diaphragm-sensed pressure regulator with a cone seat design. Its strong Inconel® X750 diaphragm lasts 50% longer than typical stainless steel designs and offers high accuracy.

A brass machined washer also ensures no torsional load is applied to the diaphragm during assembly.

Lightweight and compact the LF-300 is perfect for customers looking for a regulator with a small footprint.

SPECIFICATION

Max Rated Inlet Pressure	300bar (4,350psi)
Outlet Ranges	Up to 35bar (510psi)
Design Proof Pressure	150% max WP
Seat Leakage	In accordance with ANSI/FCI 70-3
Weight	0.9kg (2lbs)

STANDARD MATERIALS OF CONSTRUCTION

Other materials are available - please contact the office.

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
Diaphragm	Inconel® X750
Handwheel	Nylon
'O'-Ring Seals	FKM / FPM
Loading Spring	AISI 302 Stainless Steel (UNS S30200)

FEATURES AND BENEFITS

1 INCONEL® X750 DIAPHRAGM

For ultimate strength and reliability on clean or corrosive applications.

2 316SS THREADED BONNET

For panel mounting option as standard.

3 WIDE RANGE OF SEAT MATERIALS

Covers a wide range of applications.

4 40 MICRON INLET FILTER

First stage soft seat protection from system contamination.

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. 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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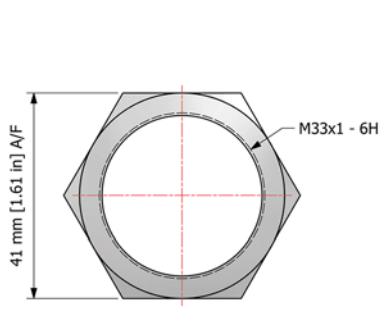
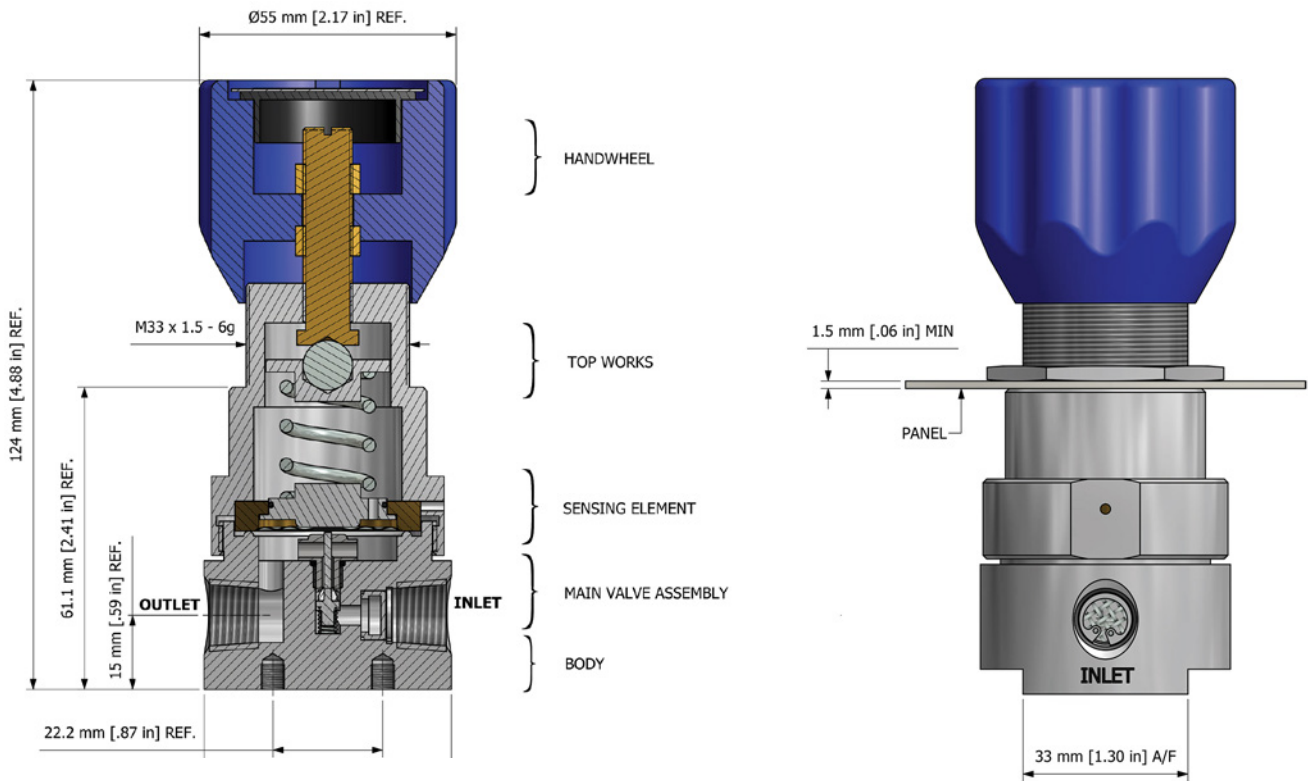
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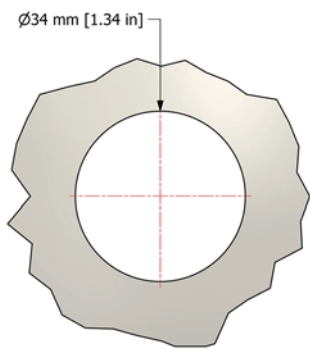


Gas Liquid | Diaphragm Piston | Self-Venting Non-Venting | Max Inlet: 300bar (4,350psi) | Max Outlet: 35bar (510psi) | Cv 0.06

DRAWINGS AND INSTALLATION DIMENSIONS



PT-C-024
STAINLESS STEEL
PANEL MOUNT RING



PANEL CUT OUT

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

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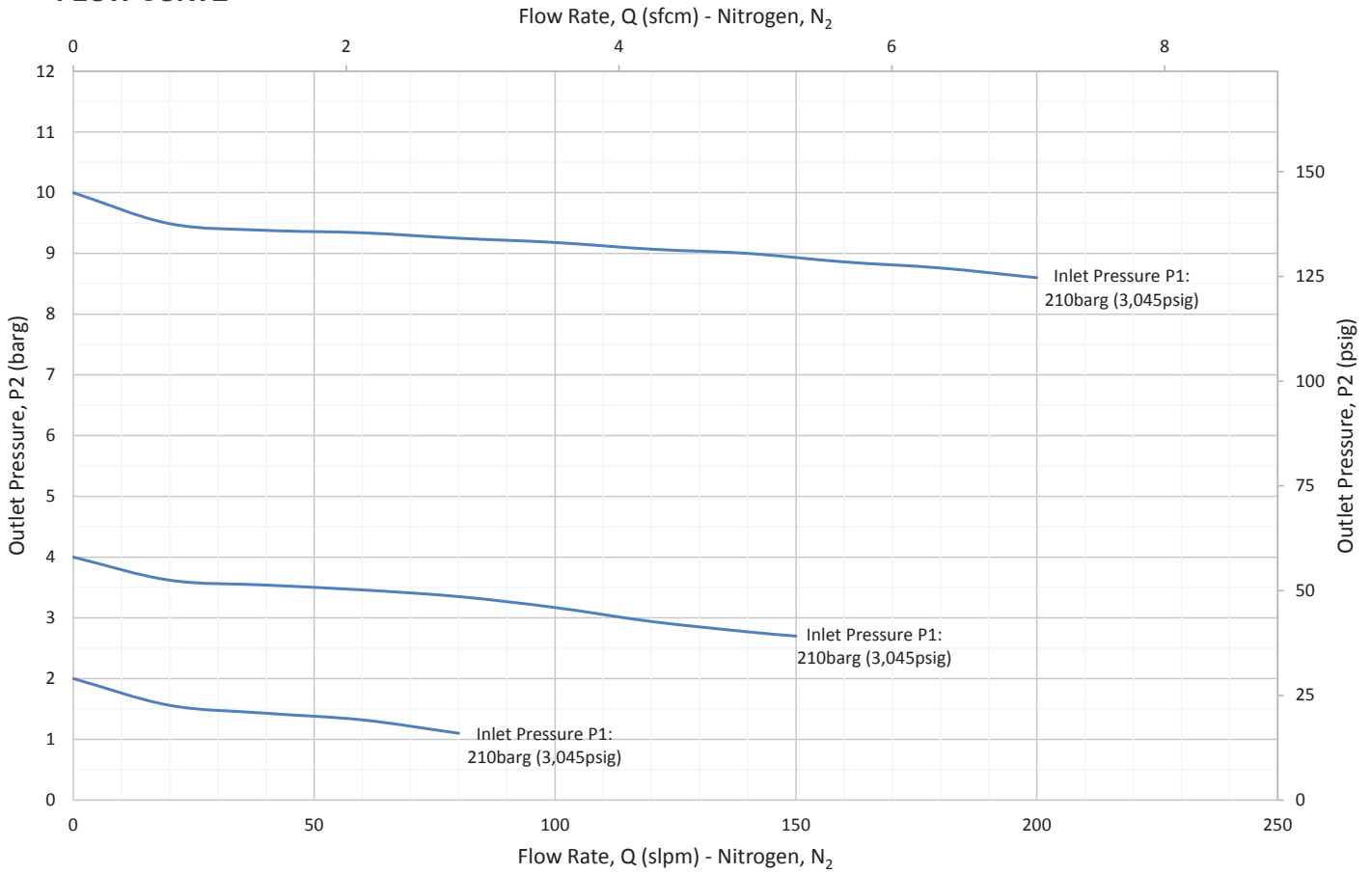
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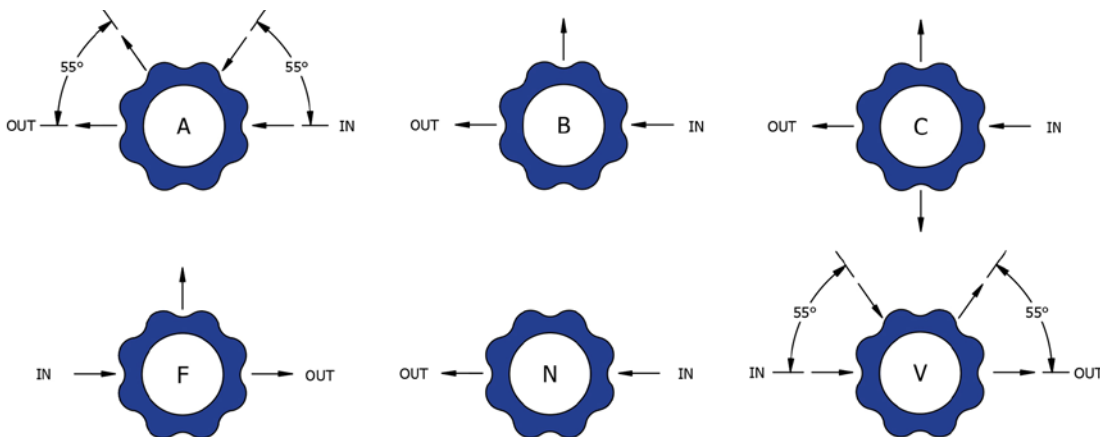


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FLOW CURVE



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:

LF300 - 06 - S - 35 - P - N - XXX	
REGULATOR MODEL/SERIES LF300 – Single-Stage Pressure Regulator - Diaphragm-Sensed	MODIFICATIONS* Please contact the office for further information.
CV VALUE 03 – 0.03 06 – 0.06 15 – 0.15	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 H – Hastelloy® (UNS N10276)	SEAT MATERIAL T – PTFE (20bar / 290psi inlet) F – FEP (50bar / 725psi inlet) K – PCTFE (210bar / 3045psi inlet) P – PEEK™ (300bar / 4350psi inlet)
CONTROL PRESSURE 05 – 0 to 5bar (0 to 75psi) 10 – 0 to 10bar (0 to 145psi) 20 – 0 to 20bar (0 to 290psi) 35 – 0 to 35bar (0 to 510psi)	* Where applicable

OPTIONAL EXTRAS		
	PART NUMBER	DESCRIPTION
Service Kit	SRK-LF300-06-U-K-M2-V	PCTFE seat and FKM/FPM seals.
Service Kit	SRK-LF300-06-U-P-M2-V	PEEK™ seat and FKM/FPM seals.
Panel Mounting Ring	PT-C-024	

Note: Ancillary Equipment and additional Service Kit options also available. Please contact the office for further information.

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

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