

# LF310 Datasheet

## LOW-FLOW PRESSURE REGULATOR



● Gas ● Liquid | ● Diaphragm ● Piston | ● Self-Venting ● Non-Venting | Max Inlet: 414 bar (6,000 psi) | Max Outlet: 35 bar (510 psi) | Cv 0.06



### INTRODUCING THE LF310...

The LF310 is a single-stage diaphragm-sensed pressure regulator for applications that require higher supply pressures in addition to an extended life cycle.

Based on the LF300, with its long-lasting Inconel® X750 diaphragm, the LF310 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 35 bar (510 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 | ASTM A479 316/316L Stainless Steel (UNS S31600/S31603) |
| Main Valve Pin  | ASTM A479 316/316L Stainless Steel                     |
| Soft Seat       | PEEK™ (450G)<br>PCTFE (Kel-F)                          |
| Valve Spring    | Inconel® X750 (UNS N07750)                             |
| Diaphragm       | Inconel® X750 (UNS N07750)                             |
| Handwheel       | Nylon                                                  |
| O-Rings         | FKM/FPM (Viton)                                        |
| Loading Spring  | ASTM A240 301 Stainless Steel (UNS S30100)             |
| Filter          | 40 Microns                                             |

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 INCONEL® X750 DIAPHRAGM

For ultimate strength and reliability on clean or corrosive applications.

#### 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.



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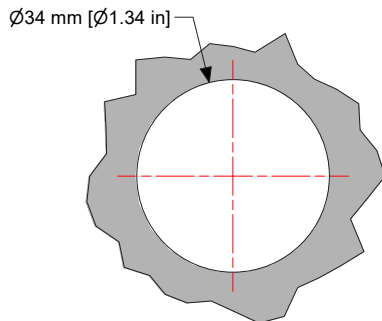
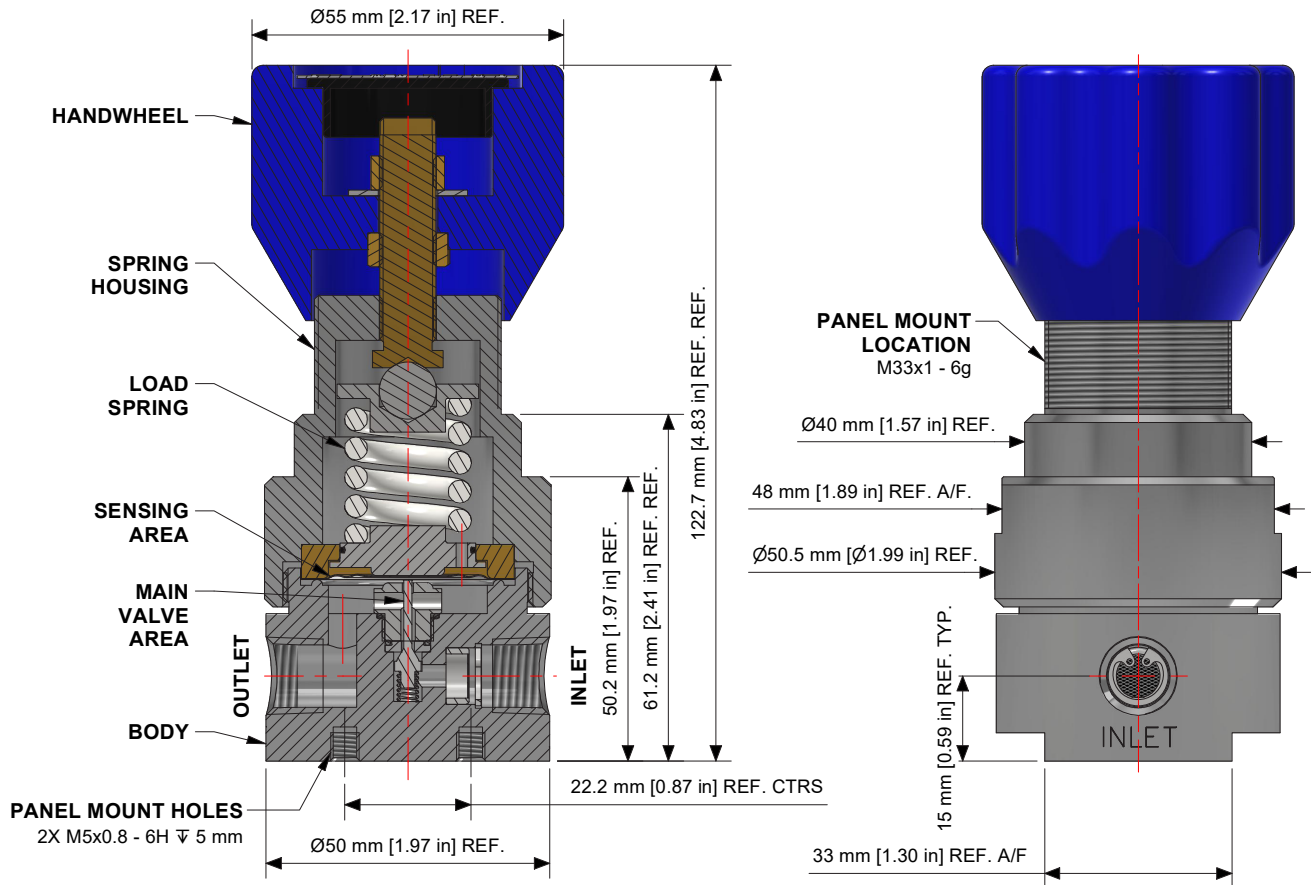
## LOW-FLOW PRESSURE REGULATOR



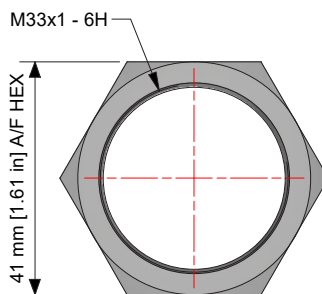
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### DRAWINGS AND INSTALLATION DIMENSIONS

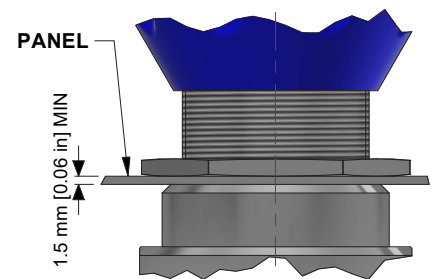
Dimensions shown for 1/4" NPT option and standard configurations only - please contact the office for other options.



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



**PANEL MOUNT RING**  
(PT-C-024)  
STAINLESS STEEL



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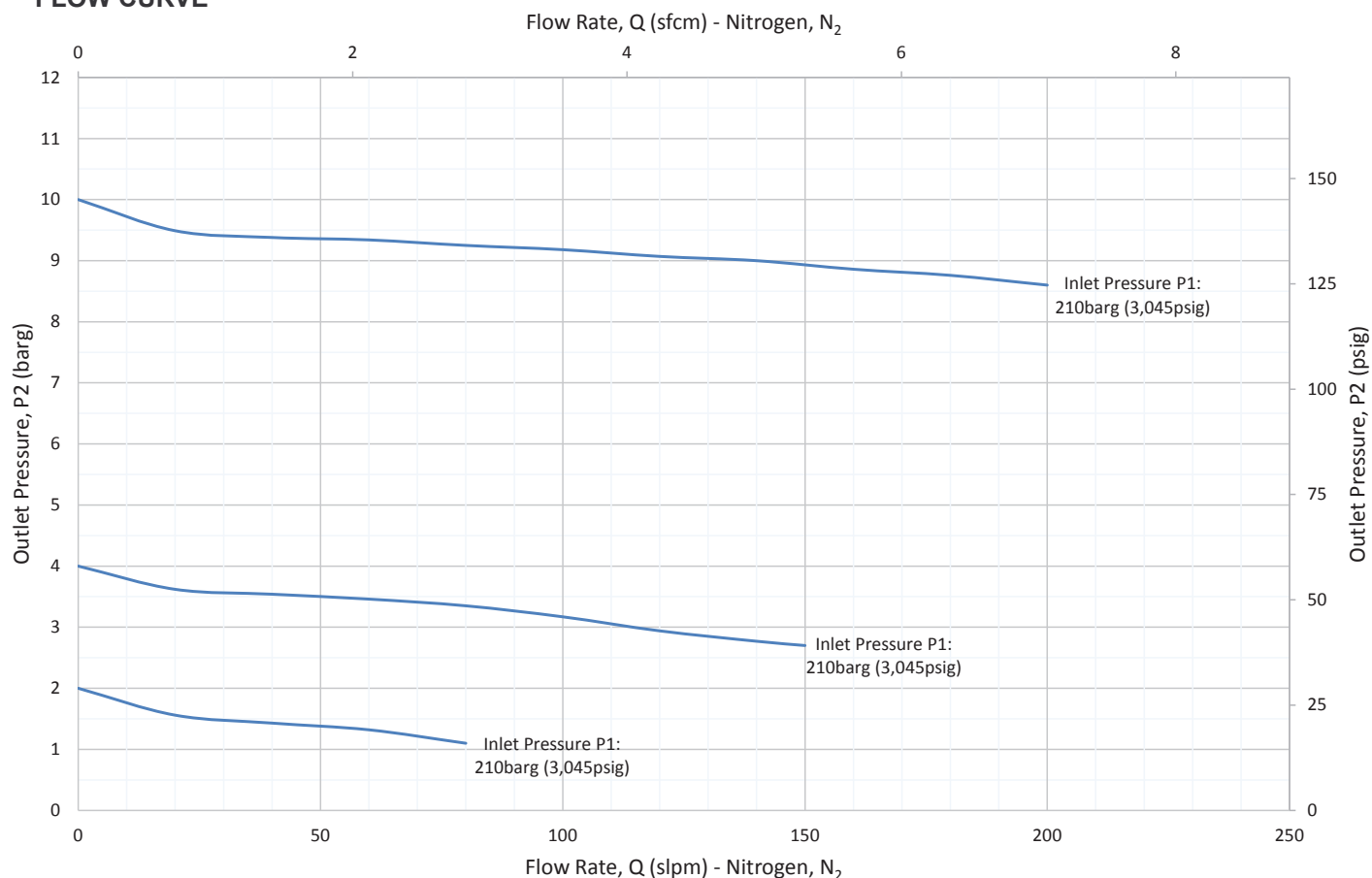
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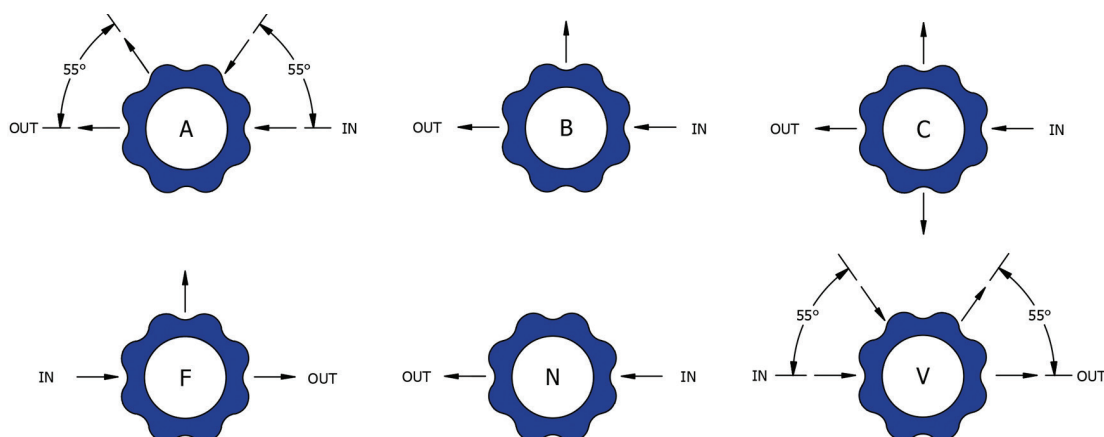


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### FLOW CURVE



### PORTING CONFIGURATIONS



#### Note:

Additional porting configurations are available - please contact the office for further information.

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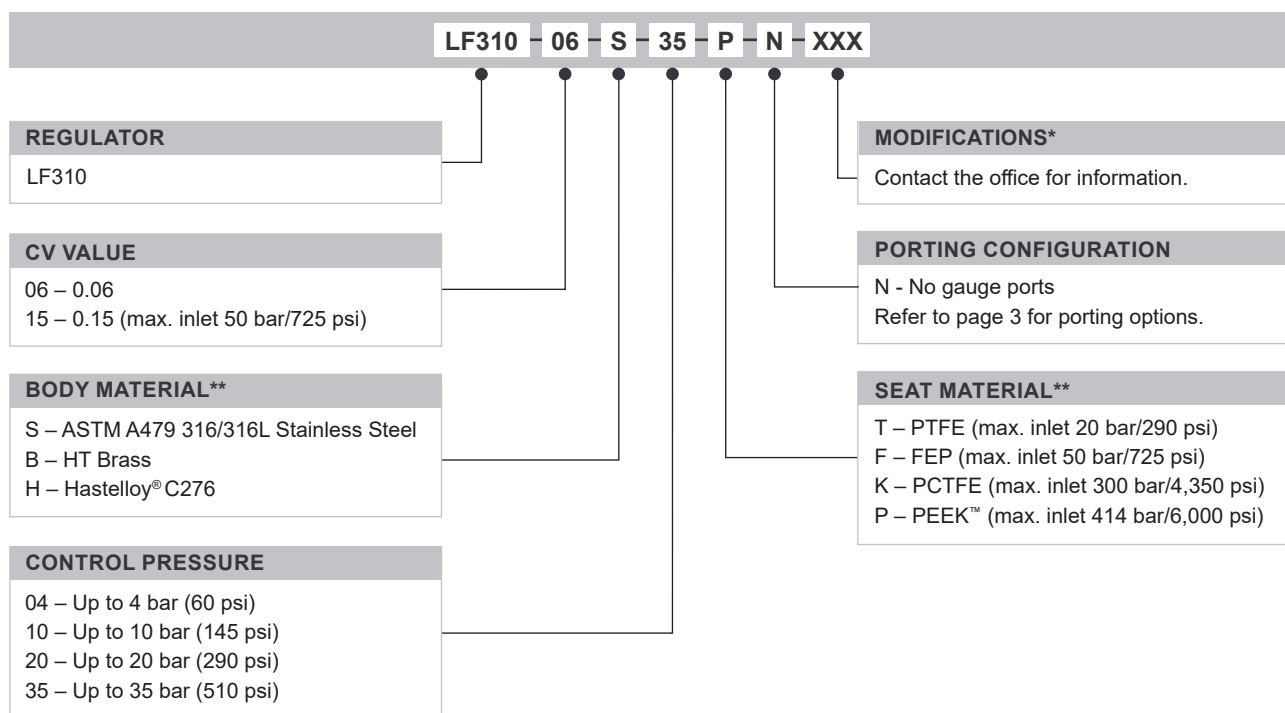
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### ORDERING INFORMATION

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



### OPTIONAL EXTRAS

|                     | PART NUMBER           | DESCRIPTION                  |
|---------------------|-----------------------|------------------------------|
| Service Kit         | SRK-LF310-06-U-K-M2-V | PCTFE seat and FKM/FPM seals |
| Service Kit         | SRK-LF310-06-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

**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

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