

# ACU310 Datasheet

AUTO-CHANGEOVER UNIT



● Gas ● Liquid | ● Diaphragm ● Piston | ● Self-Venting ● Non-Venting | Max Inlet: 300bar (4,350psi) | Max Outlet: 20bar (290psi) | Cv 0.06



## INTRODUCING THE ACU310...

The ACU310 incorporates two diaphragm-sensed regulators into a single body to create a compact auto-changeover unit. The automatic operation allows a continual supply of pressure between two gas bottles, and the second-stage regulator ensures consistent pressure control under varying inlet pressure changes.

Check valves are fitted to prevent gas from escaping whilst bottles are replaced.

The ACU310 incorporates the LF310 regulator with a solid disk type main valve assembly - further details may be found on the LF310 datasheet.

## 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	PCTFE / PEEK™
Valve Spring	Inconel® X750
Diaphragm	Inconel® X750
Handwheel	Nylon
'O'-Ring Seals	FKM / FPM
Loading Spring	AISI 302 Stainless Steel (UNS S30200)
Filter	40 Microns

## SPECIFICATION

Max Rated Inlet Pressure	300bar (4,350psi)
Outlet Ranges	Up to 20bar (290psi)
Design Proof Pressure	150% max WP
Seat Leakage	In accordance with ANSI/FCI 70-3
Weight	3.6kg (7.9lbs)

## FEATURES AND BENEFITS

### 1 INCONEL® X750 DIAPHRAGM

For ultimate strength and reliability.

### 2 USER FRIENDLY DESIGN

Simple half turn operation with easy-to-read indication.

### 3 SECOND STAGE REGULATOR

To prevent fluctuations in supply pressure.

### 4 0.01% DECAYING PRESSURE EFFECT

Stable outlet pressure under varying inlet conditions.

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

Unit 24, Graphite Way, Hadfield, Glossop, Derbyshire, UK, SK13 1QH

T +44 (0)1457 899 307

E info@pressure-tech.com

W www.pressure-tech.com

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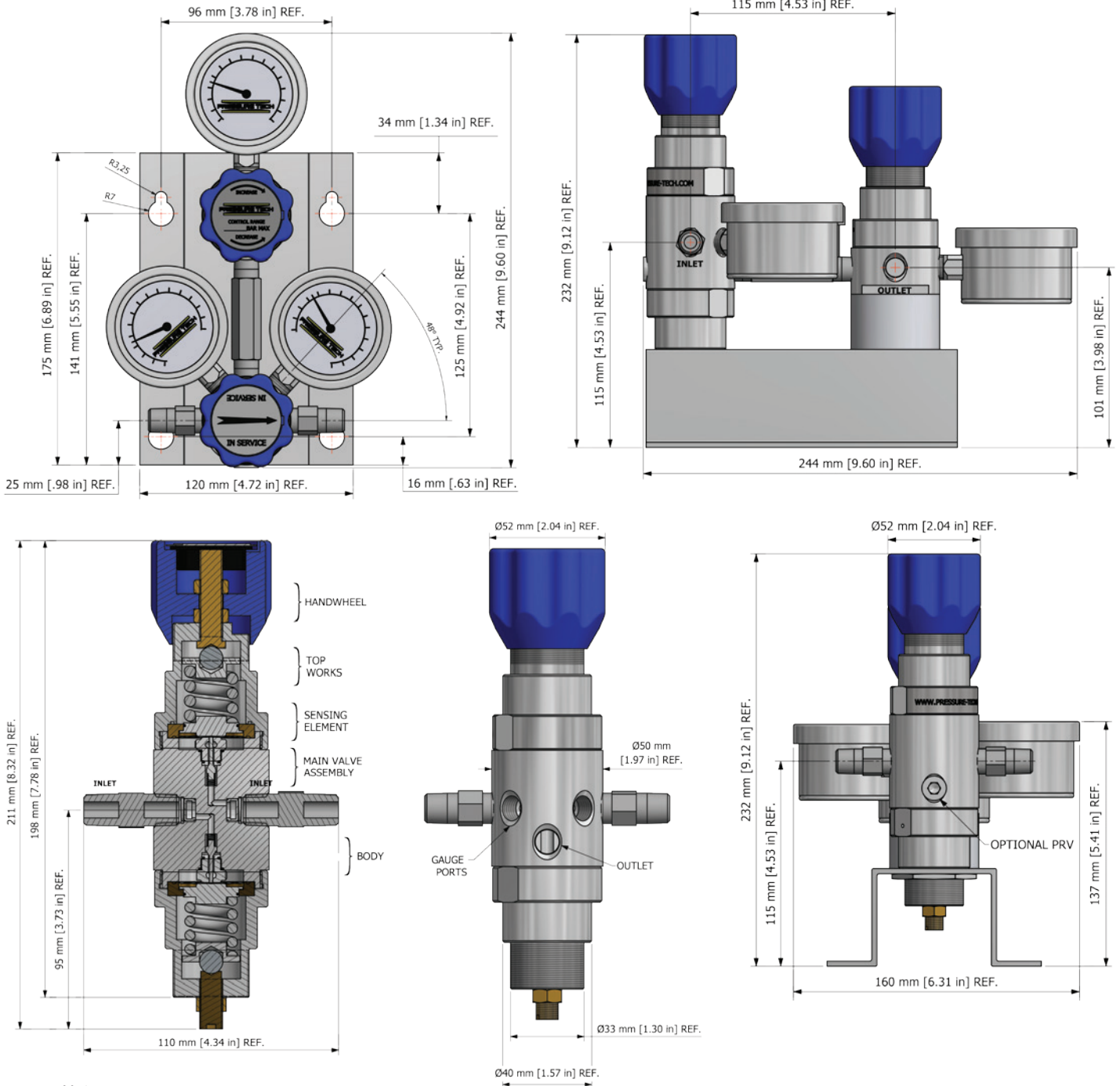
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## DRAWINGS AND INSTALLATION DIMENSIONS

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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## FLOW CURVE

Please contact the office for further information.

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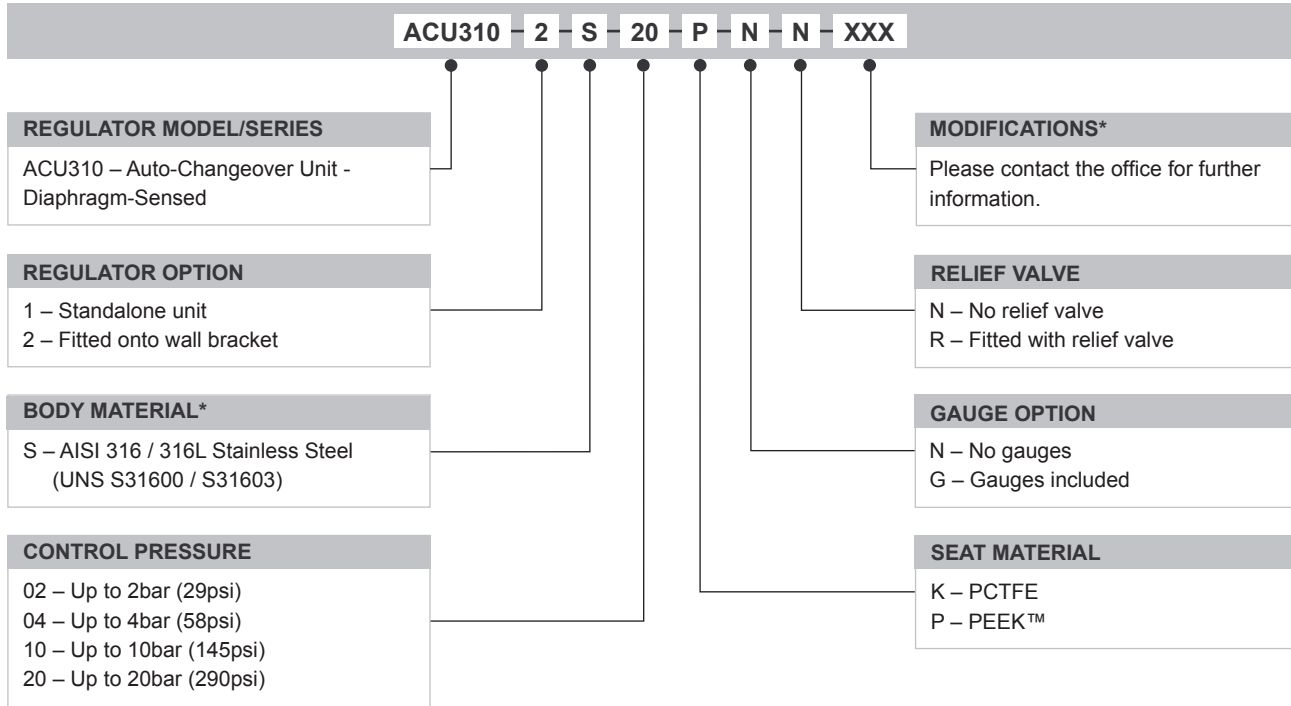
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## ORDERING INFORMATION

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



OPTIONAL EXTRAS		
	PART NUMBER	DESCRIPTION
Service Kit	SRK-ACU310...	Various options available
Panel Mount Ring	PT-C-061-005	-

*Note:*  
Ancillary equipment also available

**TRADEMARKS:** Inconel® is a registered trademark of Inco Alloys International  
 PEEK™ is a trademark of Victrex PLC

\* Other connections/materials may be available - please contact the office  
 \*\* Air loaded only

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