## CYL310 Datasheet

CYLINDER REGULATOR ASSEMBLY



-	<ol> <li>Summer 1991</li> </ol>
 Gas	Liquid
 Jas	LIYUIU

Diaphragm 
 Piston

Self-Venting Non-Venting

Max Inlet: 414 bar (6,000 psi)

Max Outlet: 35 bar (510 psi)

Cv 0.06



## **INTRODUCING THE CYL310...**

The CYL310 pressure regulator can be supplied as a single- or two-stage gas cylinder regulator assembly with full safety pattern gauges, relief valve and isolation valve. Please note - the CYL310 is supplied as standard with a bottle connector.

Using our ordering system on page 4, customers can effectively design their own assembly to suit their individual application requirements.

#### **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	1.4kg (3.1lbs)

Note: Pressure regulator rating may be limited by connection type, Cv and/or seat material. Contact the office for specific pressure requirements. Weight may vary depending on configuration required

## FEATURES AND BENEFITS



to suit customers' requirements.



PART	MATERIALS
Body and Bonnet	ASTM A479 316/316L Stainless Steel (UNS S31600/S31603) Approx. Temperatures: -196°C to 538°C
Main Valve Pin	ASTM A479 316/316L Stainless Steel
Soft Seat	PEEK <sup>™</sup> (450G) Approx. Temperatures: -50°C to 204°C
Soli Seal	PCTFE (Kel-F) Approx. Temperatures: -196°C to 180°C
Valve Spring	Inconel® X750 (UNS N07750) Approx. Temperatures: -196°C to 700°C
Diaphragm	Inconel <sup>®</sup> X750
Handwheel	Nylon
O-Rings	FKM/FPM (Viton) Approx. Temperatures: -20°C to 200°C
Loading Spring	ASTM A240 301 Stainless Steel (UNS S30100) Approx. Temperatures: -29°C to 370°C
Filter	40 Microns
Gauges*	ASTM A479 316/316L Stainless Steel (UNS S31600/S31603) Approx. Temperatures: -20°C to 60°C*

## For the full list of material temperature ranges, please visit <u>www.pressure-tech.com</u>.

Note: Temperature details are provided as nominal values for guidance purposes only. No warranty is made, expressed or implied. Contact the office for specific temperature requirements.

\* Gauge options for higher/lower operating temperatures may be available upon request



oduct 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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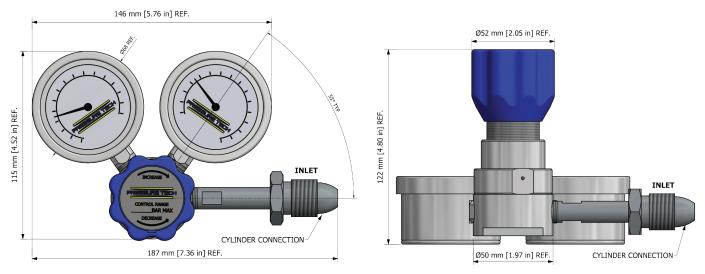


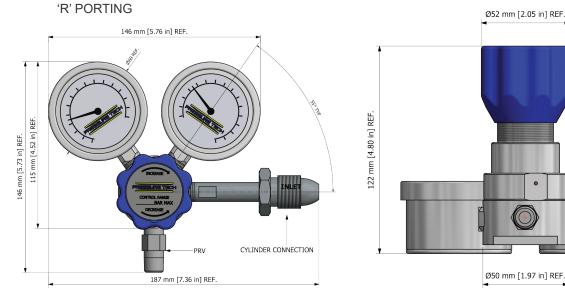


## DRAWINGS AND INSTALLATION DIMENSIONS - SINGLE-STAGE REGULATOR SHOWN

For cross-section of regulator, please refer to LF310 (single-stage) or TS310 (two-stage) datasheet.

**'A' PORTING** 





# INLET Ø50 mm [1.97 in] REF. CYLINDER CONNECTION-

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

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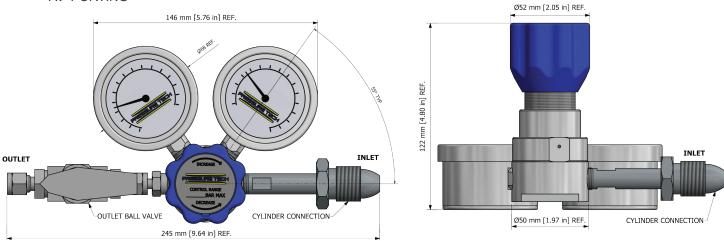
CYLINDER REGULATOR ASSEMBLY

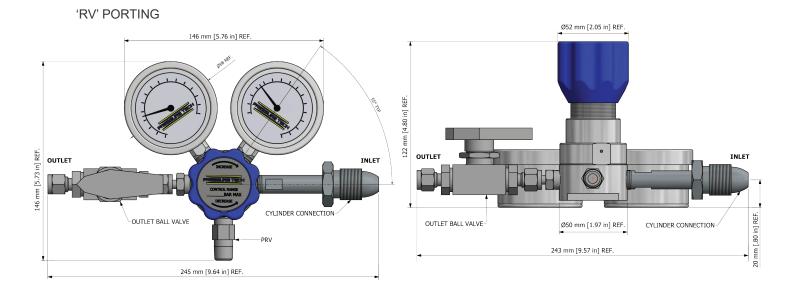




## CONTINUED...

'AV' PORTING





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

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CYLINDER REGULATOR ASSEMBLY



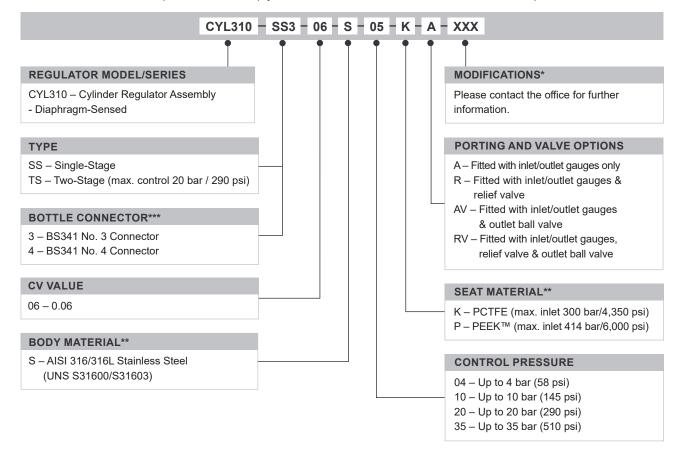
• Gas i Liquid	💿 Diaphragm 🌔	Piston Self- Venting	<ul> <li>Non- Venting</li> </ul>	Max Inlet: 414 bar (6,000 psi)	Max Outlet: 35 bar (510 psi)	Cv 0.06

## **FLOW CURVE**

Please contact the office for further information.

### **ORDERING INFORMATION**

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



	PART NUMBER	DESCRIPTION
Service Kit	SRK-CYL310	Various options available

**TRADEMARKS:** Incomel<sup>®</sup> is a registered trademark of Inco Alloys International  $PEEK^{w}$  is a trademark of Victrex PLC

#### \* Where applicable

- \*\* Other materials/connections may be available please contact the office \*\*\* Bottle connectors are supplied as standard. They are available to meet
- BS341,DIN477, CGA and other specifications

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