

RF1034 Datasheet

PRESSURE REGULATOR FOR HYDROGEN
REFUELLING APPLICATIONS

● Gas ● Liquid | ● Diaphragm ● Piston | ● Self-Venting ● Non-Venting | Max Inlet: 1,034 bar (15,000 psi) | Max Outlet: 1,034 bar (15,000 psi) | Cv 0.3



*Locking-cap option
also available.*

INTRODUCING THE RF1034...

The RF1034 is a piston-sensed pressure regulator, designed specifically for high pressure Hydrogen refuelling applications.

With a **balanced design** as standard it offers accurate control of the high pressures typically associated with Hydrogen refuelling points.

In addition, the RF1034 offers convenient access to the seat cartridge in the base of the regulator for simplified servicing.

SPECIFICATION

Max. Rated Inlet Pressure	1,034 bar (15,000 psi)
Outlet Ranges	Up to 1,034 bar (15,000 psi)
Design Proof Pressure	150% max. working pressure
Seat Leakage	In accordance with ANSI/FCI 70-3

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)
Seat	Tecasint®
Valve Spring	Inconel® X750
Piston	AISI 316 / 316L Stainless Steel (UNS S31600 / S31603)
'O'-Ring Seals	EPDM
Filter	40 Microns

FEATURES AND BENEFITS

1 EASY ACCESS TO SEAT CARTRIDGE

Simplified servicing through the base of the regulator.

2 PISTON SENSING ELEMENT

Perfect for use in challenging conditions.

3 OPTIONAL AUTOMATED CONTROL

Optional automated control of the regulator.

4 CV 0.3

Fast refuelling times for extra convenience.

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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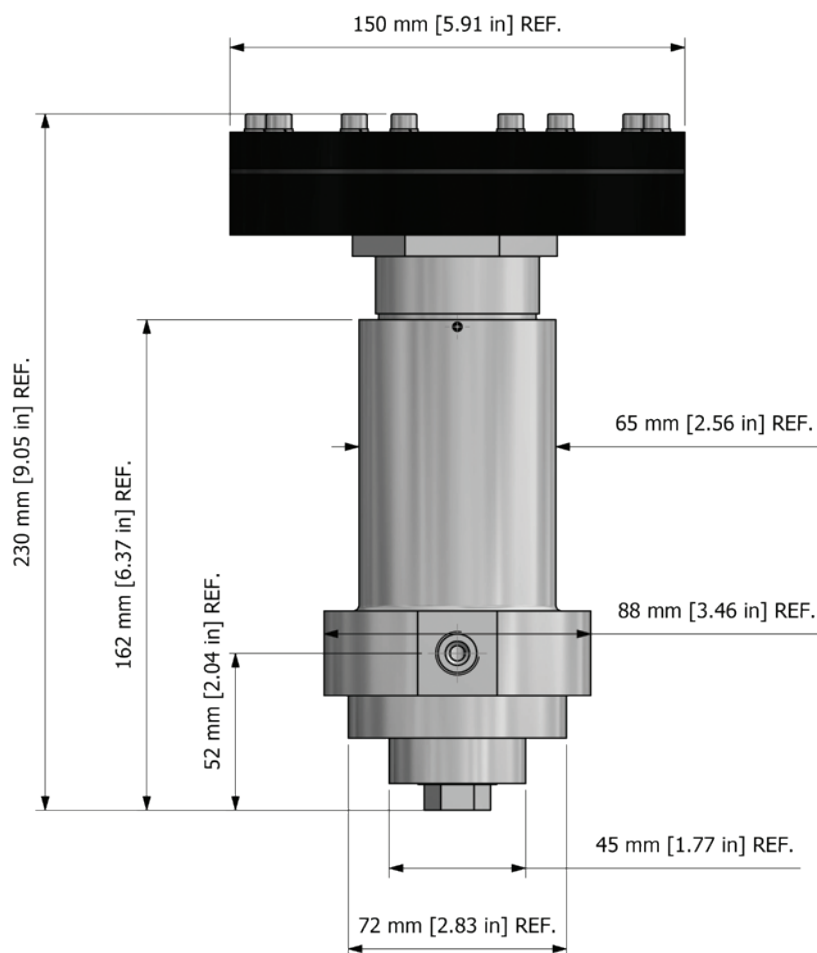
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DRAWING AND INSTALLATION DIMENSIONS

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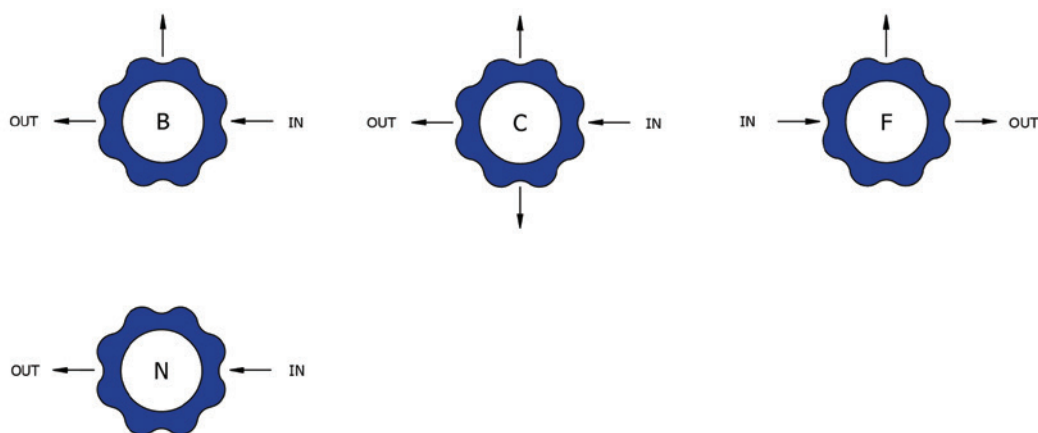
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FLOW CURVE

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:

RF1034	03	S	1034A	E	03A	N	NV	XXX
REGULATOR MODEL/SERIES RF1034 – Pressure Regulator for Hydrogen Refuelling - Piston-Sensed								MODIFICATIONS* Please contact the office for further information.
CV VALUE 03 – 0.3								VENTING NV – Non-Venting
BODY MATERIAL** S – AISI 316 / 316L Stainless Steel (UNS S31600 / S31603)								PORTING CONFIGURATION N - No gauge ports Please refer to page 3 for porting configuration options.
CONTROL PRESSURE 50 – Up to 50 bar (725psi) 100 – Up to 100 bar (1,450psi) 140 – Up to 140 bar (2,030psi)** 200 – Up to 200 bar (2,900psi) 414 – Up to 414 bar (6,000psi) 600 – Up to 600 bar (8,700psi)** 690 – Up to 690 bar (10,000psi) 1,034 – Up to 1,034 bar (15,000psi)**								INLET CONNECTION SIZE / TYPE*** 02A – ¼" Medium Pressure 03A – ⅜" Medium Pressure 04A – ½" Medium Pressure
LOADING MECHANISM S – Spring-Loaded A – Air-Loaded								O-RINGS E – EPDM

OPTIONAL EXTRAS

	PART NUMBER	DESCRIPTION
Service Kit	SRK-RF1034-03-S-1034A-E...	EPDM o-ring.

Note:
Ancillary equipment also available

TRADEMARKS: Inconel® is a registered trademark of Inco Alloys International
Tecasint® is a registered trademark of Ensinger GmbH

* Where applicable

** Air loaded only

*** Other options may be available - please contact the office

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