PRESSURE REGULATOR FOR HYDROGEN REFUELLING APPLICATIONS



DiaphragmPiston





Non-Venting

Max Inlet: 1,034 bar (15,000 psi)

Max Outlet: 1,034 bar (15,000 psi)

Cv 0.5/1.0



INTRODUCING THE RF1034...

The RF1034 is a piston-sensed pressure regulator, designed for high pressure hydrogen refuelling applications up to 1,034 bar (15,000 psi).

With a balanced main valve design as standard, the RF1034 offers accurate control of the high pressures typically associated with hydrogen refuelling points.

The high-flow RF1034 is designed to ISO 19880-3 and 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
Weight	Pneumatic: 11.4kg (25.1lbs)
	Low-Speed Electric: 11.7kg (25.8lbs)
	Rotork Electric: 17kg (37.5lbs)
	Manual: 7kg (15.4lbs)



STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS	
Body and Bonnet	ASTM A479 316/316L Stainless Steel (UNS S31600/S31603)	
	ASTM A638/A638M 660 Type 1 Stainless Steel (UNS S66286)	
Main Valve	Inconel® 718 (UNS N07718)	
Seat	Tecasint® 2011	
Valve Spring	Elgiloy®/ Phynox®	
Sensor	ASTM A479 316/316L Stainless Steel	
O-Rings	FKM/FPM	
Filter	30 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

HIGH-FLOW

Cv 0.5 or 1.0 for refuelling times as per SAE J2601 refuelling protocol.

DESIGNED TO L ISO 19880-3

For safe performance of high pressure gas valves used in gaseous hydrogen stations.

VARIOUS ACTUATOR OPTIONS

Electrically actuated, pneumatically actuated or spring-loaded options for control of regulator.

EASY ACCESS TO SEAT CARTRIDGE

Simplified servicing through the base of the regulator.

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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PRESSURE REGULATOR FOR HYDROGEN REFUELLING APPLICATIONS

• Gas Liquid

DiaphragmPiston

Self-Venting

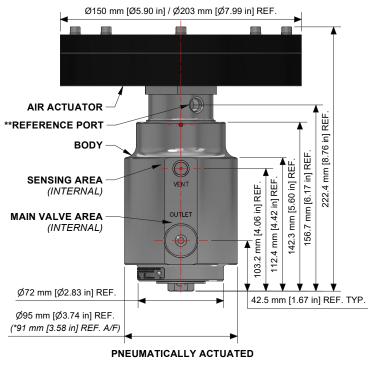
Non-Venting

Max Inlet: 1,034 bar (15,000 psi)

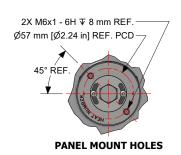
Max Outlet: 1,034 bar (15,000 psi)

Cv 0.5/1.0

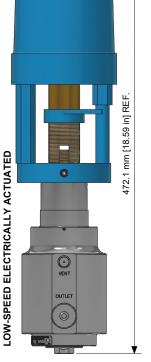
DRAWING AND INSTALLATION DIMENSIONS

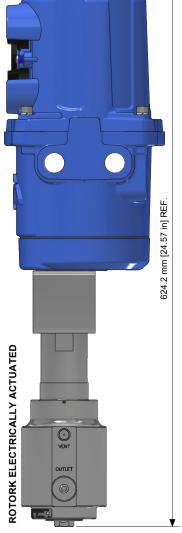


* ACROSS FLATS BETWEEN INLET AND OUTLET PORTS
** NOTE THE REFERENCE PORT ORIENTATION IS NOT FIXED









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PRESSURE REGULATOR FOR HYDROGEN **REFUELLING APPLICATIONS**

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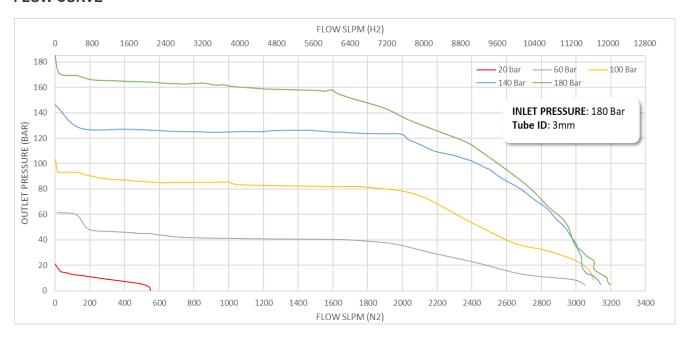
Non-Venting

Max Inlet: 1,034 bar (15,000 psi)

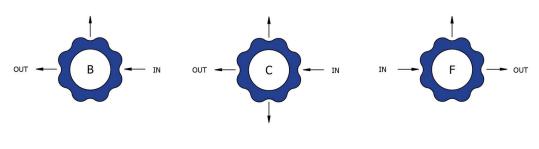
Max Outlet: 1,034 bar (15,000 psi)

Cv 0.5/1.0

FLOW CURVE



PORTING CONFIGURATIONS





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

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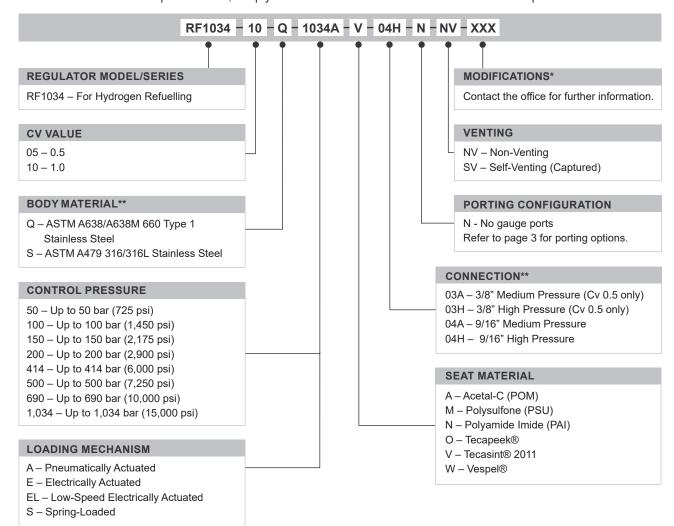
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ORDERING INFORMATION

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



OPTIONAL EXTRA	AS	
	PART NUMBER	DESCRIPTION
Service Kit	SRK-RF1034-05-Q-1034A-V	FKM/FPM o-ring.
Note: Ancillary eq	uipment also available	

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

- * Where applicable
- ** Other connections/materials may be available please contact the office

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