

rotork[®]

Instruments

Rotork Fairchild's High Pressure - Pressure Reducing Regulator is suitable for 690 bar (10000 psig) inlet and outlet hydraulic and pneumatic applications.

Tapped exhaust port allows for convenient capture of vented media. Age hardened stainless alloy seat provides a unique combination of ultra high strength, toughness, and outstanding corrosion resistance. Zirconia oxide ceramic ball provides high strength and excellent wear resistance to provide a reliable, long-lasting unit in harsh applications.

Applications

- Wellhead Control Panels (WHCP)
- Topsides and Subsea valve actuation
- Component testing
- Hydraulic Power Units (HPU's)

Features and Benefits

- Cartridge-style service insert allows quick change of the main valve and filter without removal from control panel or process lines thus preventing damage to fittings or regulator port threads
- Internal 40 μ supply filter protects equipment from contamination at high differential pressures
- Ceramic main valve for severe service application, superior performance and enhanced product durability
- NACE compatible design
- High impact knob
- Piston-sensed design ensures safety and reliability
- Segregated captured vent for control of relief media

Specifications

Maximum Inlet Pressure

- 690 bar (10000 psig)

Ambient Operating Temperature

- -40 to +80 °C (-40 to +176 °F)

Flow Capacity

- Main valve: Cv = 0.09, Vent valve: Cv = 0.11

Leakage

- Main Valve: 0.05 drop/min

Weight

- 2.95 kg (6.5 lbs)

Design Proof Pressure

- 1.5 times maximum working pressure



High Pressure Regulator

Outlet Pressure Ranges

| psig | bar |
|---------|--------|
| 0-500 | 0-34.5 |
| 0-1000 | 0-69 |
| 0-1500 | 0-103 |
| 0-3000 | 0-207 |
| 0-5000 | 0-345 |
| 0-10000 | 0-690 |

Process Media Contact Materials

| | |
|-----------------------|-----------------------------|
| Body | 316 Stainless Steel |
| Supply and Vent Seats | MP35N |
| Supply Valve | Zirconia Oxide Ceramic Ball |
| Internal Components | 316 and 17-4 PH |
| Back-up Ring | PTFE |
| O-Rings | Nitrile or Fluorocarbon |

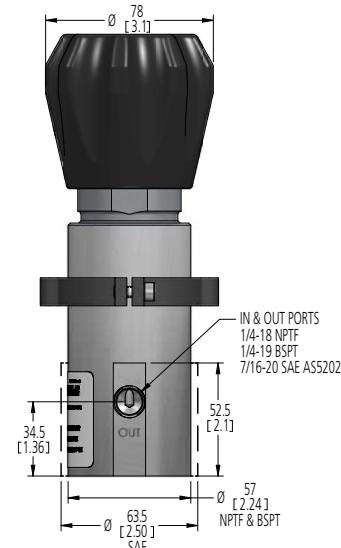
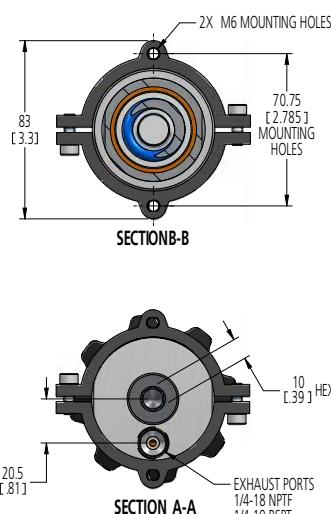
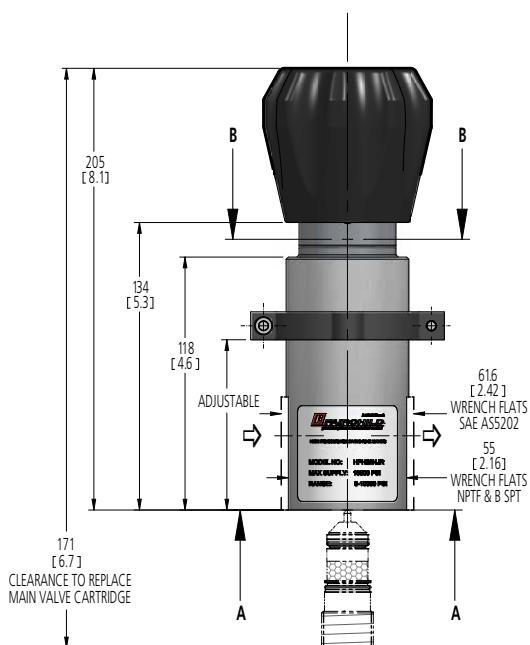


Keeping the World Flowing

High Pressure Regulator

Dimensions

All dimensions in mm with inches in brackets:
mm [inches]



A full listing of the Rotork sales and service network is available on our website.

www.rotork.com

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As part of a process of on-going product development, Rotork reserves the right to amend and change specifications without prior notice. Published data may be subject to change. For the very latest version release, visit our website at www.rotork.com

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Product Code **HPH - 1 - 1 - 2 - N - N - R**

Revision

Range

| | psig | bar | kPa |
|---|---------|-------|---------|
| 1 | 0-500 | 0-35 | 0-3500 |
| 2 | 0-1000 | 0-69 | 0-6900 |
| 3 | 0-1500 | 0-103 | 7-10300 |
| 4 | 0-3000 | 0-207 | 0-20700 |
| 5 | 0-5000 | 0-345 | 0-34500 |
| 6 | 0-10000 | 0-690 | 0-69000 |

Port Size

| | |
|---|-----|
| 2 | 1/4 |
|---|-----|

Port Thread

| | |
|---|------|
| N | NPTF |
| U | BSPT |

Elastomers

| | | |
|---|--------------|---------------------------------|
| N | Nitrile | (-40 to +176 °F; -40 to +80 °C) |
| J | Fluorocarbon | (-10 to +176 °F; -23 to +80 °C) |

Relief

| | |
|---|-----------|
| R | Relieving |
|---|-----------|

22581 - 1 N

22823 - 1

Replacement Cartridge

| | |
|---|--------------|
| N | Nitrile |
| J | Fluorocarbon |

Mounting Bracket Kit



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