

Keeping the World Flowing for Future Generations



Model 90 and 91

Low / High Pressure Selector Relay

Features and Benefits

- Small, rugged design suitable for installation where space is limited
- Soft seat construction to assure positive shutoff
- Low selection differential to allow precise control of switching
- Fast response that is suitable for control in critical loops
- Automatic switching that eliminates manual monitoring of signal pressure

Operating Principles

The Model 90 Low Pressure Selector Relay is designed to select the lower of two signal pressures to provide a continuous output pressure to a control device. The Model 90 is recommended for dead end or low flow service in critical applications such as control loops requiring precise, automatic monitoring of signal pressures.

The Model 91 High Pressure Selector Relay is designed to select the higher of two signal pressures, and to provide a continuous output pressure (or pressure range) to a controller. The ability to precisely control switching and pressure monitoring make the Model 91 the logical choice in dead end or low flow applications such as precision control loops.

Specifications

Maximum Signal Pressure

• 200 psig, [14.0 BAR], (1400 kPa)

Minimum Switching Differential

• Less than .1 psig, [.007 BAR], (.7 kPa)

Maximum Differential between Signals

• 100 psig, [7.0 BAR], (700 kPa)

Ambient Temperature Range

• -40 to +200 °F, (-40 to +93.3 °C)

Materials of Construction

 Body: Aluminum Alloy Diaphragm: Dupont Fairprene-coated fabric Trim: Brass



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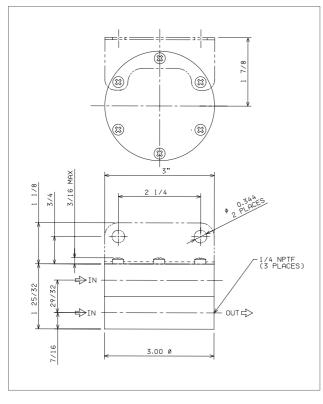
Model 90 and 91

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Low / High Pressure Selector Relay

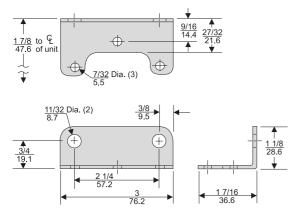
Supply Pressure = 100psig

Dimensions



Mounting Bracket Kit

P/N 09921 (sold separately)



Installation

Product Code

Pressure Range 00 = 90 Low Pressure 10 = 91 High Pressure

U = BSPT (Tapered)

= Fluorocarbon Elastomers

Flow Characteristics (Model 90052)

Supply Pressure = 20psig

Pipe Size = 1/4" NPT

100

q

psig 7

Output Pressure, 60

50

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20

2 Options

Service Kits are available for the Model 90 and Model 91. Refer to the Fairchild Model 90 and Model 91 Installation, Operation and Maintenance Instructions, IS-30009091.

Air Flow, SCFM

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

www.rotork.com

PUB103-072-00 Issue 09/20

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