



burkert









A rotork Brand

Fine Controls have been supplying process controls & instrumentation equipment since 1994, & now serves an ever expanding customer base, both in the UK & globally.

We offer a full range of valve & instrumentation products & services, with our product rangerepresenting leading technologies & brands:

Flow: Flow Meters & Transmitters, Flow Switches, Flow Control Valves & Batch Control Systems

Temperature: Temperature Probes & Thermowells, Temperature ransmitters, Temperature Regulators & Temperature Displays

Level: Level Transmitters & Switches

Pressure: Pressure Gauges & Transmitters, Precision & High Pressure Regulators & I-P Converters, Volume boosters.

Precision Pneumatics: Pressure Regulators, I-P Converters, Volume Boosters, Vacuum Regulators

Valves: Solenoid & Pneumatic Valves, Control Valves & Positioners, Actuated Ball, Globe or Diaphragm Valves & Isolation Valves

Services: Repair, Calibration, Panel Build, System Design & Commissioning



A rotorik Brand



Honeywell



Baumer Group









Fine Controls (UK) LTD, Bassendale Road, Croft Business Park, Bromborough, Wirral, CH62 3QL UK Tel: 0151 343 9966 Email: sales@finecontrols.com



The Model 25 Reversing Relay provides an output which will decrease in direct proportion to an increase in input pressure.

FAIRCHILD

Features

- High strength, deep convolution compensating diaphragm.
- Bottom pressure balancing chamber with a diaphragm.
- Floating seal ring.
- Balances undesirable relief seat forces.
- Ensures balanced supply seat forces.
- Protects stabilizing chamber from effect of high relief flows.

Operating Principles

The Model 25 Reversing Relay is designed for applications requiring an output that equals a manually preset spring load minus a variable signal pressure. This high quality unit combines excellent sensitivity with unusually high flow capacity.

The Model 25 is ideally suited for a variety of precision control applications, including converting direct acting valves to reverse action, controlling opposite acting valves from a single transmitter, and cushioning cylinder loads.

The basic mathematical expression for the Model 25 is PO = K - PS where PO is output pressure, PS is signal pressure and K is the spring constant.



Technical Information



Mounting Bracket: 09921

Model

25

Model 25 Relay Kits & Accessories

Mounting Bracket Kit......09921 (sold separately)

Catalog Information

Catalog Number		25				
Pressure Range						
psig	[BAR]	(kPa)				
0-10	[0-0.7]	(0-70)	42			
0.5-30	[0.03-2]	(3-200)	43			
1-60	[0.1-4]	(10-400)	44			
2-150	[0.15-10]	(15-1000)	46			
Pipe Size						
1/4" NPT				2		
3/8" NPT				3		
1/2" NPT				4		
Options						
Tapped Ex	haust				Е	
BSPP (Parallel) ¹						
Fluorocarbon Elastomers					J	
BSPT (Tapered)						

¹ BSPP Threads in Inlet & Outlet Ports Only. Others BSPT.

Service Kit

A Service Kit is available for the Model 25 Reversing Relay, refer to the *Fairchild Installation, Operation and Maintenance Instructions*, IS-30000025.

Specifications

Maximum Supply Pressure

250 psig, [17.5 BAR], (1750 kPa)

Flow Capacity

40 SCFM (68 m³/HR) @ 100 psig, [7.0 BAR], (700 kPa) supply, 20 psig, [1.5 BAR], (150 kPa) setpoint

Exhaust Capacity

11 SCFM (18.7 m³/HR) where downstream pressure is 5 psig, [.35 BAR], (35 kPa) above setpoint

Signal or Output Pressure 150 psig, [10 BAR], (1000 kPa) maximum

Supply Pressure Effect Less than 0.1 psig, [.007 BAR], (.7 kPa) for 100 psig,

[7.0 BAR], (700 kPa) change in supply pressure

Sensitivity

Less than 1/8" (.32 cm) Water Column

Mounting Pipe or Panel

Ambient Temperature Limits -40°F to +200°F, (-40°C to 93.3°C)

Materials of Construction

Body	
TrimAluminu	m, Stainless Steel, Brass
Diaphragms	Buna N and Dacron

