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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



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Model 18 Vacuum Relief Regulator

18



Features

• The Model 18 is a high accuracy vacuum relief regulator, providing superior vacuum control over a narrow pressure range. The model 18 is an excellent choice for a wide range of percision applications.

 The Model 18 has the following features:

 Control sensitivity of 1/8" water column allows use in precision applications.

· A separate Control Chamber and Aspirator Tube isolate the diaphragm from the main flow to eliminate hunting and buzzing.

 Unit construction lets you service the Model18 without removing it from the line.

Mounting Bracket is available.

 Canadian Registration Number (CRN) certification for all territories and provinces.

Operating Principles

The Model 18 Vacuum Relief Valve uses a force balance principle to open the Relief Valve and allow atmospheric air to lower vacuum levels when the set point is exceeded.

Vacuum is transmitted to the top of the M18 Diaphragm Assembly, exerting an upward force on the diaphragm. When you adjust the range screw for a specific set point, the Positive Bias Spring compresses and exerts a downward force on the top of the Diaphragm Assembly. As long as the vacuum force acting on the Diaphragm Assembly produces a force less than the spring force acting on the top of the Diaphragm Assembly, the Relief Valve remains closed. When vacuum increases beyond the set point, the assembly moves upward, lifting the Relief Valve from its seat and allowing atmospheric air in, lowering vacuum level in the system.

If vacuum pressure decreases below the set point, the assembly moves downward closing the Relief Valve.





Technical Information



Model 18 Regulator Kits & Accessories

Mounting Bracket Kit. 09921 (sold separately)

Specifications

Max Vacuum Capacity 30 in Hg (762 Torr) (102 kPa), up to "Full" Vacuum

Flow Capacity 8 SCFM (68 m3/HR) @ 29" Hg VAC

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

Ambient Temperature -40°F to +200°F, (-40°C to 93°C)

Materials of Construction

Body and Housing	Aluminum
Diaphragms	
Trim	

Model 18 Vacuum Relief Regulator Ordering Information 181 **Catalog Number Vacuum Range** in Hg [Torr] (kPa) [140 [700] (14) (70) 1 20 2 30 [1000] (100)3

Model

18





