

R-4000 Series Relieving Regulator



FEATURES

- Configurable Ports
- Excellent Repeatability
- Miniature Size
- Non-Rising Stem with 20 Turns
- Pressure Compensated Design
- Very Low Bleed
- Elastomeric Seat

The **Modular Subminiature Relieving Regulator** is configured for accurate pressure regulation with minimal consumption. It will only relieve pressure after the output has risen above the setpoint. This feature prevents excess consumption in the system. Pressure compensated design improves the performance of supply pressure variation and flow characteristics.

The **Unique Modular Dovetail** design allows the regulator to be configured individually or assembled into a modular combination of pneumatic components.

PERFORMANCE DATA

* May be updated upon request



Patent numbers 5,217,260 & 5,261,447



Unique Modular Dovetail Design

SPECIFICATIONS

Adjustment Range: 0.5 to 100 PSI

Maximum Supply: 150 PSI

Operating Temperature: 40° to 150° F (4° to 66°C)

Recommended Filtration: 5 Micron

Effect of Supply Variation: Within .25 PSI output change with 10 PSI supply change

Repeatability: Within .5 PSI when the supply pressure is turned off and on

Supply Consumption: Less than 5ccm

MATERIALS

Housing: Glass filled Celcon

Adjustment Screw: Carbon Filled Nylon

Retaining Ring: Carbon Spring Steel

Stem Assembly: Celcon

Diaphragm: Polyurethane

Diaphragm Assembly: Celcon

Springs: Stainless Steel

O-Rings: Buna N

Valve Seat: Buna N

Filter: Stainless Steel 304, Micron size 380

Manifold Mount Screws: Zinc Plated Steel

PORT CONNECTIONS

Threaded Dovetail: A Modular Dovetail Slide with 10-32 UNF, 1/8-27 NPT, 1/4-18 NPT thread sizes. The 1/8" and 1/4" NPT contain a brass hoop ring insert. The 1/8" and 1/4" gauge port is available. During assembly fittings should be finger tight plus one turn.

Union Dovetail: A Modular Dovetail Slide with a thru hole joining two units together with a common air supply.

Connecting Dovetail: A Modular Connecting Dovetail Slide with no hole joining two units together with no common air supply.

Gauge Dovetail: A Modular Dovetail Slide with 1/8-27 NPT or 1/4-18 NPT thread sizes. The Dovetail Slide has the word "gauge" molded into the slide.

Blank Dovetail: 2 Blank Dovetail Slides are supplied as standard.

Push-in Fitting Dovetail: Available for 5/32", 3/16", 1/4", 5/16", 4mm and 6mm O.D. Tubing.

MOUNTING

Panel Mount: 9/16" hole for panel mounting, mounting nut furnished. Panel mounting nut should be finger tight plus 1/4 turn.

Manifold Mount: A bottom cover with an input and output port. Buna N-008 O-Rings are included and seal on face of mounting surface. Port Dimensions .187" hole diameter .100" minimum depth

Base mounting: .115 diameter mounting holes, use 4-40 mounting screws.

Wall Mount: Modular Dovetail wall mount.