

NR-4000 Series Non-Relieving Regulator



FEATURES

- Configurable Ports
- Excellent Repeatability
- Miniature Size
- Non-Rising Stem with 20 Turns
- Pressure Compensated Design
- Zero Supply Consumption
- Elastomeric Seat
- High Seat Force

The **Modular Subminiature Non-Relieving Regulator** is configured for accurate regulation of pressure without needing a pressure bleed. Set point creep and over-shoot are minimized by a combination of elastomeric seat and high seat force. In an open system, Non-Relieving Regulators will operate without risk of set point creep. In a closed system, Non-Relieving Regulators should only be used in combination with secondary relief.

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: None

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.

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

Wall Mount: Modular Dovetail wall mount.

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