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

**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.

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