



MODELS COVERED

MODEL NUMBERS Outlet Pressure Adjustment Range*			Port Size PTF	Materials	
1 to 10 psig (0.1 to 0.7 bar)	5 to 50 psig (0.3 to 3.5 bar)	5 to 100 psig (0.3 to 6.9 bar)		Body	Bonnet
R44-100-RNAA R44-200-RNAA R44-122-RNAA R44-222-RNAA	R44-100-RNEA R44-200-RNEA R44-122-RNEA R44-222-RNEA	R44-100-RNKA R44-200-RNKA R44-122-RNKA R44-222-RNKA	1/8 1/4 1/8 1/4	Aluminum	Plastic
R44-121-RNAA R44-221-RNAA R44-133-RNAA R44-233-RNAA	R44-121-RNEA R44-221-RNEA R44-133-RNEA R44-233-RNEA	R44-121-RNKA R44-221-RNKA R44-133-RNKA R44-233-RNKA	1/8 1/4 1/8 1/4	Brass Brass	Plastic

*Outlet pressure adjustment ranges are not minimum or maximum outlet pressure limits. Regulators can be adjusted to zero psig outlet pressure and, generally, to pressures in excess of those specified. The use of these regulators to control pressures outside of the specified ranges is not recommended.

SPECIFICATIONS

Fluid: Compressed Air, Carbon Dioxide, and Inert Gases
Inlet Pressure: 250 psig (17.3 bar) maximum
Temperature Range: 0 to 140°F (-18 to 60°C) with dewpoint of supply fluid less than air temperature below 35°F (2°C).
Type: Diaphragm
Gauge ports: 1/8 PTF

MATERIALS OF CONSTRUCTION

Body & Bonnet: See Models Covered table
Valve Seat: Acetal Plastic
Elastomers: Nitrile

INSTALLATION

1. Install regulator as close as possible to the device being serviced. Regulator can be installed at any angle.
2. In systems with a cyclic demand, install regulator upstream of cycling control valves.
3. Line piping should be same size as regulator ports.
4. Connect piping to proper ports using pipe thread sealant on male threads only. Do not allow sealant to enter interior of regulator. Sealant must be compatible with gases involved. Flow direction is indicated by arrow on bottom of body, or the inlet port is indicated by the word IN.

5. If desired, connect outlet pressure gauge to one of the gauge ports on side of regulator body. Gauge ports in units with a zinc body can also be used as additional outlets for regulated pressure. Plug unused ports.

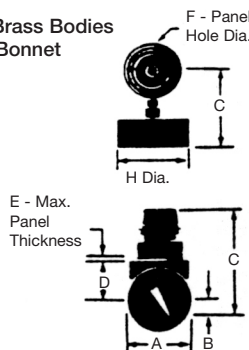
ADJUSTMENT

1. Before turning on system pressure, turn regulator adjustment fully counterclockwise.
2. Turn on system pressure.
3. Turn regulator adjustment clockwise until the desired outlet pressure is reached.
4. To avoid minor readjustment after making a change in pressure setting, always approach the desired pressure from a lower pressure. When reducing from a higher to a lower setting, first reduce to some pressure less than that desired, then bring up to the desired point.
5. On regulators with plastic bonnet, push locking on adjusting knob down-ward to lock pressure setting. To release, pull locking upward. Pressure setting can be made tamper resistant by installing a seal wire (see Accessories) in groove, above locking.
6. On regulators with brass bonnet, tighten Jam nut on adjusting screw to lock pressure setting.

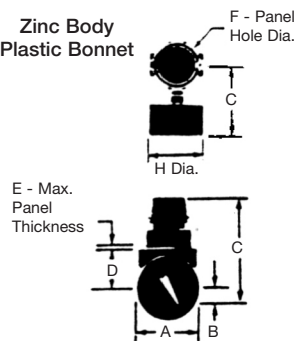
Bonnet Type	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R
Aluminum & Brass Bodies with Plastic Bonnet	1.50 (38)	0.40 (10)	2.76 (70)	0.96 (24)	0.25 (6)	1.19 (30)	2.13 (54)	1.65 (42)	1.50 (38)	2.47 (63)	1.41 (36)	1.00 (25)	0.38 (10)	0.69 (18)	0.31 (8)	0.22 (6)
Zinc Body Plastic Bonnet	1.63 (41)	0.40 (10)	2.76 (70)	0.96 (24)	0.25 (6)	1.19 (30)	2.13 (54)	1.65 (42)	1.50 (38)	2.47 (63)	1.41 (36)	1.00 (25)	0.38 (10)	0.69 (18)	0.31 (8)	0.22 (6)
Brass Body Brass Bonnet	1.50 (38)	0.40 (10)	3.38 (86)	1.03 (26)	0.25 (6)	0.81 (21)	2.13 (54)	1.65 (42)	1.38 (35)	2.41 (61)	1.43 (36)	1.00 (25)	0.38 (10)	0.69 (18)	0.31 (8)	0.22 (6)

All dimensions in inches (millimeters).

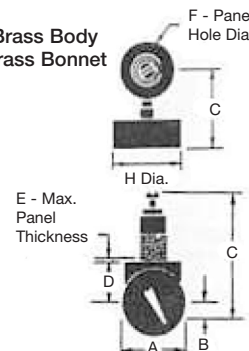
**Aluminum & Brass Bodies
Plastic Bonnet**



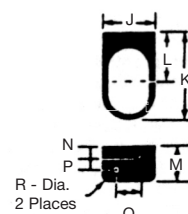
**Zinc Body
Plastic Bonnet**



**Brass Body
Brass Bonnet**



**Mounting
Bracket**





DISASSEMBLY

1. Shut off inlet pressure and reduce pressure in inlet and outlet lines to zero.
2. Turn adjustment counterclockwise until all load is removed from spring (5). Regulator can be disassembled without removal from pipe.
3. Unscrew the bonnet (2 or 3), then remove springrest (4 -brass bonnet only), regulating spring (5). and slpring and diaphragm (6 & 7). Unscrew the valve seat and gasket assembly (8). then remove valve (9) and valve spring (10).

CLEANING

1. Clean parts using warm water and soap.
2. Inspect all parts.
3. Replace damaged parts.

REASSEMBLY

1. At reassembly, apply a small amount of Lubriplate 110 evenly to full length of threads and tip of adjusting screw (1) onto adjusting screw threads inside bonnet (2).
2. Torque valve seat (8) to 4-to-6 inch-pounds. Valve pin must slide freely through valve seat after valve seat is torqued into body. Torque bonnet (2 or 3) to 60-to-70 inch-pounds torque.

REPAIR KITS

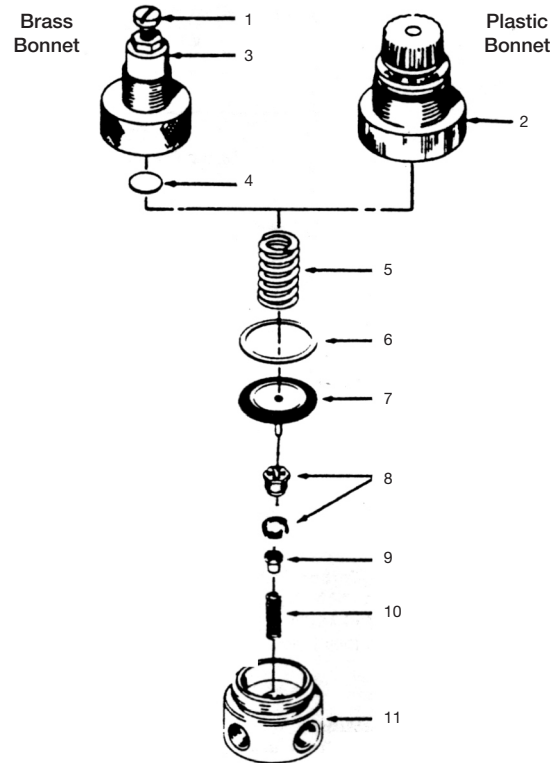
Nonrelieving Regulators (items 6 thru 10)	3407-01
Relieving Regulators (items 6 thru 10)	3407-02

REPAIR PARTS

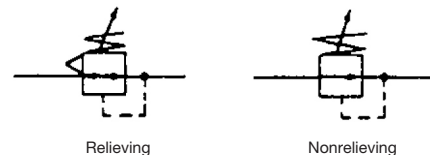
Regulating spring (item 5) -	
1 to 10 psig (color code brown)	2069-02
5 to 50 psig (color code green)	613-03
5 to 100 psig (color code yellow)	2960-04
Diaphtgmn assembly (item 7) -	
Non relieving	3410-20
Relieving	3410-21
Valve assembly (item 9)	2959-50
Valve seat and gasket assembly (item 8)	3402-51

ACCESSORIES

	Plastic Bonnet	Brass Bonnet
Mounting Bracket		
(includes panel mounting nut)	18-025-003	18-001-020
Panel mounting nut	2962-89	616-01
Tamper Resistan Seal Wire	2117-01	-



Graphic Symbols



LIMITED WARRANTY, DISCLAIMER, & LIMITATION OF REMEDIES

Items sold by NORGREN are warranted to be free from defects in materials and workmanship for a period of one year from the date of manufacture, provided said items are used according to NORGREN's recommended usages. NORGREN's liability is limited to the repair of, refund of purchase price paid for, or replacement in kind of, at NORGREN's sole option, any items proved defective, provided the allegedly defective items are returned to NORGREN prepaid. The warranties expressed above are in lieu of and exclusive of all other warranties.

There are no other warranties, expressed or implied, except as stated herein. There are no implied warranties of merchantability or fitness for a particular purpose, which are specifically disclaimed. NORGREN's liability for breach of warranty as herein stated is the exclusive remedy, and in no event shall NORGREN be liable or responsible for incidental or consequential damages, even if the possibility of such incidental or consequential damages has been made known to NORGREN. NORGREN reserves the right to discontinue manufacture of any product or change product materials, design, or specifications without notice.

WARNING

These regulators are intended for use in industrial compressed air, carbon dioxide, or Inert gas systems only. Do not use these regulators where pressure or temperature can exceed those listed under Specifications. If outlet pressure in excess of the regulator pressure setting could cause downstream equipment to rupture or malfunction, install a pressure relief device downstream of the regulator. The relief pressure and flow capacity of the relief device must satisfy system requirements. The accuracy of the indication of pressure gauges can change, both during shipment (despite care in packaging) and during the service life. If a pressure gauge is to be used with these products and if inaccurate indications may be hazardous to personnel or property, the gauge should be calibrated before initial installation and at regular intervals during use. For gauge standards refer to ANSI B40.1-1974. Before using with fluids other than those specified, for nonindustrial applications, or for life support systems consult NORGREN.

WARNING

Improper selection, misuse, age or malfunction of components used in systems can cause failure in various modes. The system designer is warned to consider the failure modes of all component parts and to provide adequate safeguards to prevent personal injury or damage to equipment or property in the event of such failure modes. System designers and end users are cautioned to consult instruction sheets and specifications available from the factory. The system designer/end user is responsible for verifying that all requirements for the application are met.

WARRANTY

The products described herein are warranted subject to seller's Standard Terms and Condition of Sale, available at seller's website.