WILKERSO Tel: (269) 629-5000

Richland, MI 49083

To avoid unpredictable system behavior that can cause personal injury and property damage:

- Disconnect electrical supply (when necessary) before installation, servicing, or conversion.
- · Disconnect air supply and depressurize all air lines connected to this product before installation, servicing, or conversion.
- Operate within the manufacturer's specified pressure, temperature, and other conditions listed in these instructions.
- Medium must be moisture-free if ambient temperature is below freezing.
- · Service according to procedures listed in these instructions.
- · Installation, service, and conversion of these products must be performed by knowledgeable personnel who understand how pneumatic products are to be applied.
- After installation, servicing, or conversion, air and electrical supplies (when necessary) should be connected and the product tested for proper function and leakage. If audible leakage is present, or the product does not operate properly, do not put into use.
- Warnings and specifications on the product should not be covered by paint, etc. If masking is not possible, contact your local representative for replacement labels.

/!\ WARNING

Product rupture can cause serious injury. Do not connect regulator to bottled gas. Do not exceed maximum primary pressure rating.

Introduction

Follow these instructions when installing, operating, or servicing the product.

Application Limits

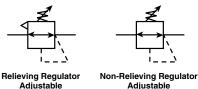
These products are intended for use in general purpose compressed air systems only.

Operating Pressure:

	kPa	PSIG	bar
Maximum Inlet Pressure:	2068	300	21.0

Operating Temperature Range: 4°C to 51,7°C (40°F to 125°F)

ANSI Symbols



Installation

1. The regulator should be installed with reasonable accessibility for service whenever possible - repair service kits are available. Keep pipe and tubing lengths to a minimum with inside clean and free of dirt and chips. Pipe

Installation & Service Instructions: 84-036-000

RB3 Brass Regulators

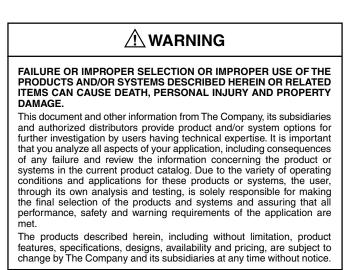
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joint compound should be used sparingly and applied only to the male pipe - never into the female port. Do not use PTFE tape to seal pipe joints - pieces have a tendency to break off and lodge inside unit, possibly causing malfunction.

- 2. Install regulator so that air flow is in the direction of arrow. Installation must be upstream (high pressure) side and as close to the devices it is to service (valve, cylinder, tool, etc.) as possible. Mounting may be in any position.
- 3. Gauge ports are located on both sides of the regulator body for your convenience. It is necessary to install a gauge or pipe plugs into each port during installation.
- 4. For protection against rust, pipe scale, and other foreign matter. install a filter on the upstream (high pressure) side as close to the regulator as possible.

Operation

- 1. Before turning on the air supply:
- 1A. On RB3, disengage the adjusting knob by pulling upward. Turn adjusting knob counterclockwise until the compression is released from the pressure control spring.
- 1B. On tamper resistant model, pressure is preset. Do not attempt to adjust.
- 2. Then turn on air supply and adjust regulator to desired secondary pressure by turning adjusting knob clockwise. This permits pressure to build up slowly, preventing any unexpected operation of the valve, cylinders, tools, etc., attached to the line. Adjustment to desired secondary pressure can be made only with primary pressure applied to the regulator.
- 3. To decrease regulator pressure setting, always reset from a pressure lower than the final setting desired. For example, lowering the secondary pressure from 550 to 410 kPa (80 to 60 PSIG) is best accomplished by dropping the secondary pressure to 350 kPa (50 PSIG), then adjusting upward to 410 kPa (60 PSIG).



EXTRA COPIES OF THESE INSTRUCTIONS ARE AVAILABLE FOR INCLUSION IN EQUIPMENT / MAINTENANCE MANUALS THAT UTILIZE THESE PRODUCTS. CONTACT YOUR LOCAL REPRESENTATIVE.

RB3 Brass Regulators

Service

- CAUTION: SHUT OFF AIR SUPPLY and exhaust the primary and secondary pressure before disassembling regulator unit. (Turning the knob counterclockwise reduces regulator's setting, but does not vent downstream pressure on non-relieving regulators.)
- CAUTION: Lubricate parts with a mineral based grease / oil or silicone grease. DO NOT use synthetic grease / oils such as esters.

A. Servicing the Bonnet and Diaphragm Assembly-

- 1A. On RB3, disengage the adjusting knob by pulling upward. Turn adjusting knob counterclockwise until the compression is released from the pressure control spring.
- 1B. On tamper resistant models, do not adjust the unit. Use caution when removing the bonnet.
- 2. Unscrew the threaded bonnet assembly. Next, disassemble, clean, and carefully inspect parts for wear and/or damage. If replacement is necessary, use parts from service kits.
- 3. Install diaphragm assembly into body. Then install bonnet assembly to body. See Figure 1 for torque value.

B. Servicing the Poppet Assembly-

- 1. Exhaust system air pressure as previously described. Then remove bottom cap by unscrewing it from body. Next, remove cap and o-ring, spring and poppet assembly.
- 2. Next, clean, and carefully inspect parts for wear and/or damage. If replacement is necessary, use parts from service kits.

- 3. Lubricate o-ring and sliding surfaces using grease supplied with service kit.
- 4. Lubricate cap's o-ring and install it in o-ring groove on cap. Then screw cap into body until the cap bottoms out in body. See Figure 1 for torque value.
- 5. Turn on air supply and adjust to desired secondary pressure as described in the **Operation** section.

Turn on air pressure and check regulator for leakage. If leakage occurs, DO NOT OPERATE — conduct repairs again.

If you have questions concerning how to service this unit, contact your local authorized dealer or your customer service representative.

Service Kits Available

Description	RB3 Brass	
Bonnet Assembly	RRP-96-821	
Tamper Resistant Kit	RRP-96-822	
Knob Only Kit	RRP-96-823	
Regulator Repair Kit (Relieving)	RRP-96-824	
Regulator Repair Kit (Non-Relieving)	RRP-96-825	

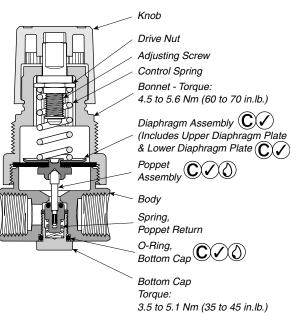


Figure 1 RB3 Regulator (Non-Relieving Shown)

() Lightly grease with provided lubricant.

(C) Clean with lint-free cloth.

Inspect for nicks, scratches, and surface imperfections. If present, reduced service life is probable and future replacement should be planned.