

# Benjamin Sheridan Corporation

Rts 5&20, East Bloomfield, NY 14443

## RG-1 REGULATOR

The RG-1 Regulator is intended for use with CO<sub>2</sub> powered paintball guns. The use of the RG-1 Regulator will improve the performance of any paintball gun by reducing the variance of CO<sub>2</sub> pressures delivered to the gun during operation.

By placing the RG-1 Regulator between the CO<sub>2</sub> source and the paintball gun, the player can then adjust the paintball gun to function and shoot near maximum velocities at a lower than otherwise normal pressure relying on the RG-1 to supply that lower pressure consistently until the CO<sub>2</sub> source is depleted.

### INSTALLATION:

The RG-1 should be threaded into the bulk bottle adapter of the paintball gun and carefully torqued into place. A small amount of blue (removable) Loctite applied to the threads will help keep the RG-1 from coming loose during use.

Install the CO<sub>2</sub> source into the female fitting of the RG-1 as you would into the gun before installation of the RG-1.

As in other paintball gun applications the CO<sub>2</sub> source should be kept below the level of the gun and the regulator to prevent the flow of liquid CO<sub>2</sub> into the regulator.

 **CAUTION:** KEEP HANDS AWAY FROM ESCAPING CO<sub>2</sub> GAS. IT CAN CAUSE FROSTBITE IF ALLOWED TO COME IN CONTACT WITH THE SKIN.

### ADJUSTMENT:

The maximum output pressure of the regulator is approximately 600 psig. This pressure can be reduced by turning the pressure adjustment screw clockwise screwing it into the regulator body. Pressure can be increased to the maximum by rotating the pressure adjustment screw counterclockwise screwing it out of the regulator body. (Note: The pressure adjustment screw is not retained and can be removed.)

### LUBRICATION:

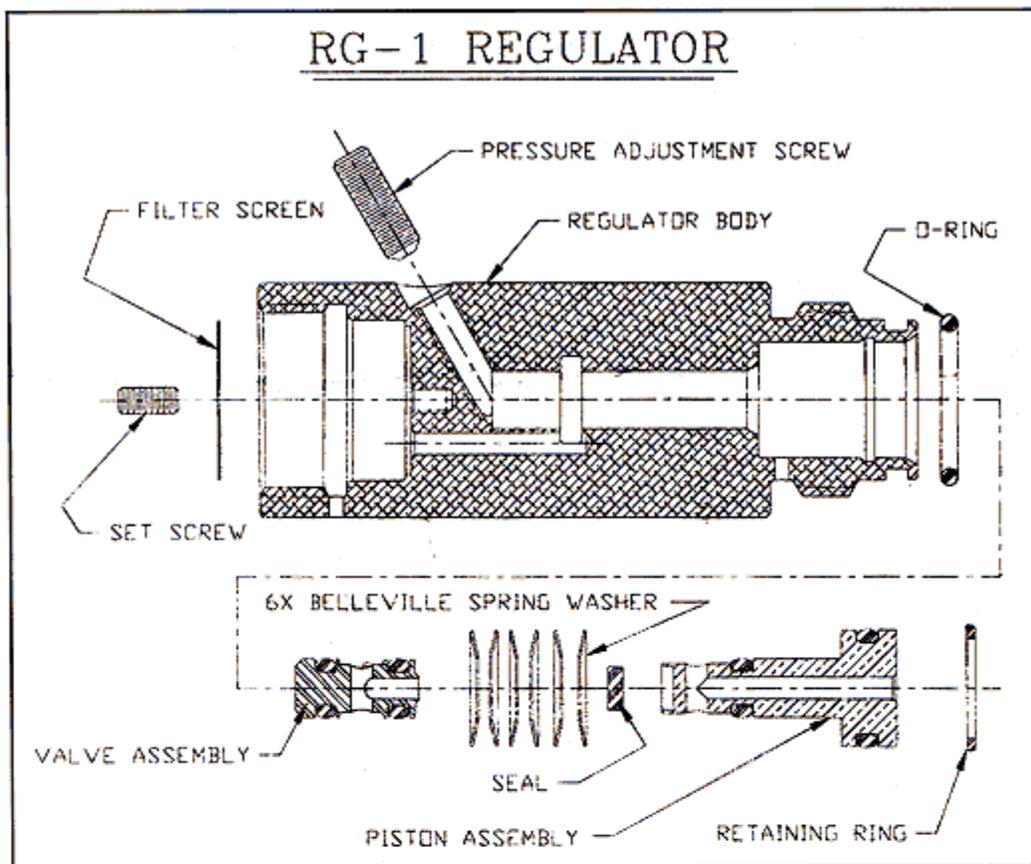
A few drops of high quality oil such as Gold Cup or Crosman Pellgunoil should be added to the tank end of the regulator every time a tank is mounted. Lack of lubrication will not, in itself cause any harm to the regulator but could impair performance.

### DISASSEMBLY:

1. Using E-Ring pliers remove the internal retaining ring.
2. Using a pick reach inside the piston assembly and slowly pull it out of the regulator body. (Be careful not to lose any of the 6 belleville spring washers.)
3. Using a pick reach inside the valve assembly and slowly pull it out of the regulator body. (Be careful not to nick or damage the valve seat edge.)
4. Using a .050 hex wrench remove the set screw and filter screen.
5. Using a 5/64 hex wrench remove the pressure adjustment screw.

### ASSEMBLY:

1. Carefully clean and inspect all parts prior to assembly.
2. Be sure that the 6 belleville spring washers are stacked properly as shown in the diagram.
3. Apply a small amount of oil to all of the o-rings.
4. Assemble in the reverse order of disassembly.
5. Be careful to avoid damaging the bores in the regulator body.



### **LIMITED ONE YEAR WARRANTY**

This product is warranted to the retail consumer for one year from the date of purchase against defects in material and workmanship.

**WHAT IS COVERED:** Replacement parts and labor. Transportation charges to consumer for repaired product.

**WHAT IS NOT COVERED:** Transportation charges to Benjamin Sheridan for defective product. Damages caused by failure to perform normal maintenance. Sales outside of the United States. Any other expense. CONSEQUENTIAL DAMAGES, INCIDENTAL DAMAGES OR INCIDENTAL EXPENSES, INCLUDING DAMAGE TO PROPERTY. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

**HOW TO OBTAIN WARRANTY PERFORMANCE:** Attach to the product your name, address, description of problem, phone number and proof of date of retail purchase (sales slip). Package and return to Benjamin Sheridan Corporation, Routes 5&20, E. Bloomfield, NY USA 14443, phone no.716-657-6161 transportation charges prepaid.

**IMPLIED WARRANTIES:** ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO ONE YEAR FROM DATE OF PURCHASE. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

To the extent any provision of this warranty is prohibited by federal, state or municipal law which can't be preempted, it shall not be applicable. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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