



## Installation Instructions for the Check and Regulating Valve Kit for Big Flo/Competitive Pumps

The following defined terms are used throughout these instructions to bring attention to the presence of hazards of various risk levels, or to important information concerning the life of the product.

**DANGER**

indicates presence of a hazard which *will* cause *severe* personal injury, death or substantial property damage if ignored.

**CAUTION**

indicates presence of a hazard which *will* or *can* cause *minor* personal injury or property damage if ignored.

**WARNING**

indicates presence of a hazard which *can* cause *severe* personal injury, death or substantial property damage if ignored.

**NOTICE**

indicates special instructions on installations, operation, or maintenance which are important but not related to personal injury hazards.

**NOTICE**

**This instruction sheet should be kept with the end user of the leak detector for reference.**

**NOTICE**

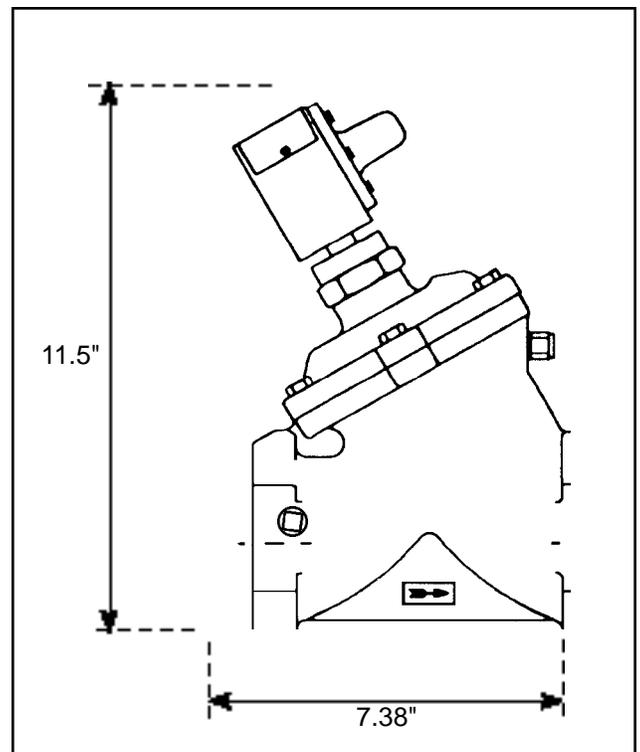
**Tampering with the screws or seals on this valve may inhibit operation and will void warranty. Do not wire submersible pumps to run continuously. Red Jacket line leak detection systems will not perform leak tests on pumping systems that run continuously.**

The Red Jacket Check and Regulating Valve Kit part number is 108-560-5.

The kit consists of the following components:

- A. Check Valve/Housing 188-239-4
- B. Regulating Valve 123-032-4
- C. Copper Tubing 085-332-1 (not shown)
- D. Fittings (for copper tubing connection) 027-274-1

These components are specially designed to maintain pressure in the system of 11-15 psi once the pump is off. In order to operate properly, the submersible pumps used with this kit must exhibit a positive output pressure in the range of 16-50 psi. The valves are designed for a maximum flow rate of 260 gpm.



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System Components (see Figure 1)

- A. Check Valve/Housing
- B. Regulating Valve
- C. 1/4" NPT Copper Tubing and Fittings  
(Components A-C are included under part #108-560-5)
- D. 2-1/2" Close Nipple \*

\*Pipe fittings are required to perform 3" to 2-1/2" NPT pipe conversions.

**NOTICE** Check Valve body has 2-1/2" input and output ports.

## Installation Instructions

**Step 1** Install the check/regulating valve assembly (Item A & B in Figure 1) in the product line as close to the pump's discharge as possible. Assembly must be positioned so that product enters the valve in the direction of the arrow located on the bottom front of the casting.

**NOTICE** Input and output ports of the valve body are 2-1/2" NPT.

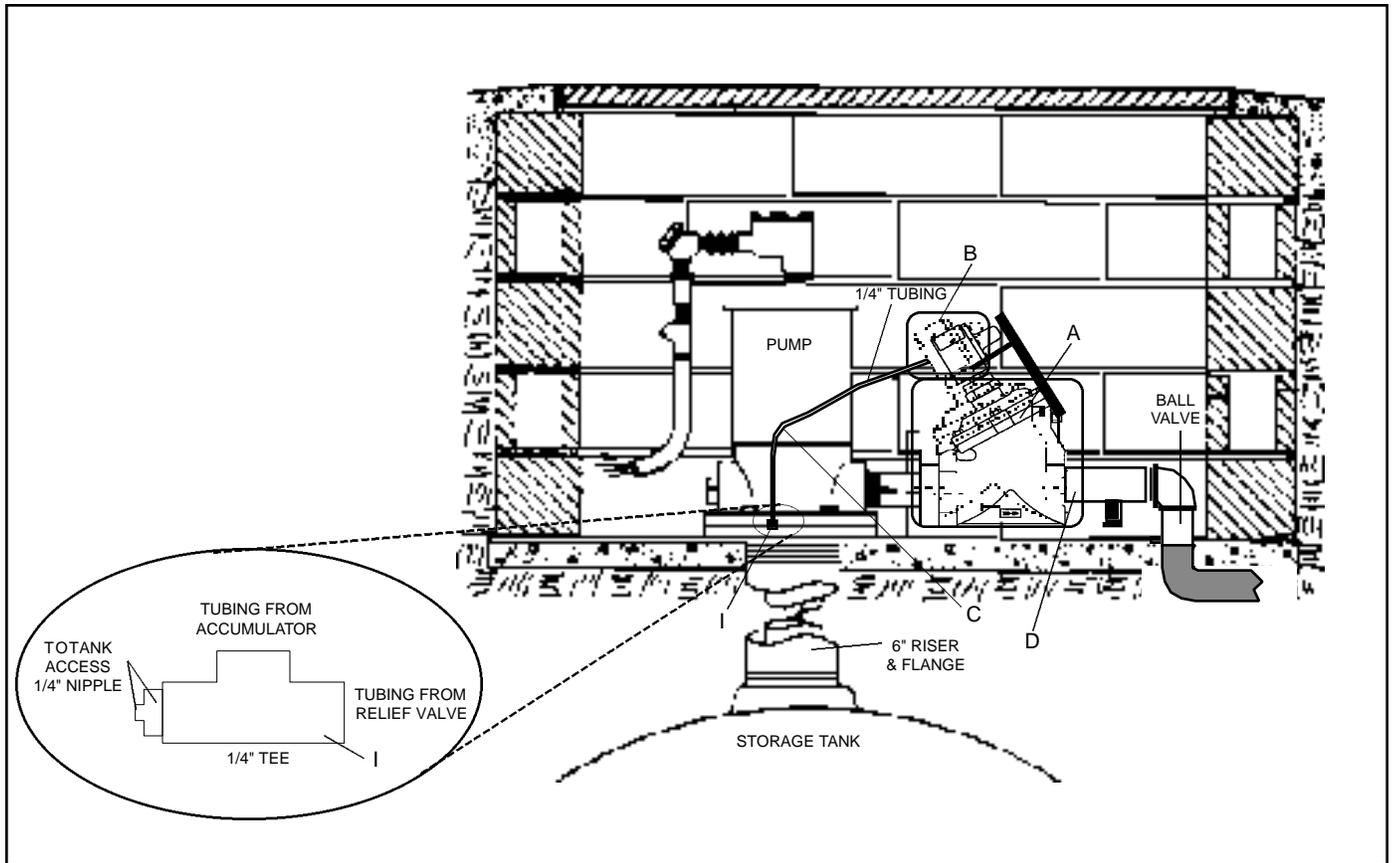
**Step 2** Utilizing 1/4" NPT copper tubing, vent the regulating valve (Item B) back to the tank.

Red Jacket Big Flo 6" Flanged Risers manufactured after May 1992 provide a 1/4" tank access port. These risers can be ordered from Red Jacket.

**CAUTION** Any tank port that is unused must be plugged.

**NOTICE** All systems require an inherent check valve upstream of the 108-560-5 check/regulating valve.

**Step 3** Before start-up, the installation must be inspected by a Red Jacket authorized service technician.



## BIG FLO ELD KIT REPLACEMENT PARTS

Figure 1

### Complete Big Flo ELD Kit 108-560-5

Check Valve/Housing	188-239-4
Diaphragm for Check Valve/Housing	017-531-1
Spring for Check Valve/Housing	079-415-1
Copper Tube	085-332-1
Regulating Valve	123-032-4
Diaphragm for Regulating Valve	017-549-1
Poppet for Regulating Valve	066-796-1 or 066-857-1
Spring for Regulating Valve	080-311-1
Fittings	027-274-1



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