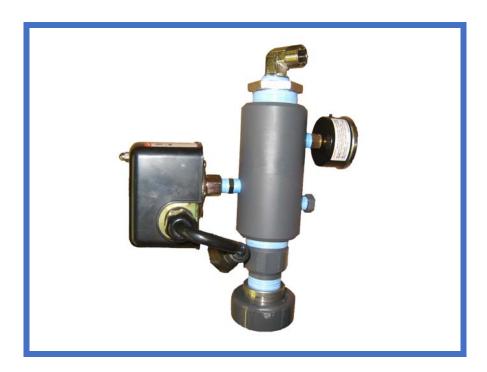


7 GPM Bubble-Up Mechanical Pump Control Assembly Manual

Part Number BUB-075A, 7GPM Standard 45/65 Pressure Switch

For use with only 115 volt Bubble-Up pumps.



Patent Number: US 8,393,875 B2

A. SETTING PRESSURE SWITCH FOR PROPER OPERATION:

- 1. Always unplug the pressure switch before removing pressure switch cover and making adjustments. See pressure adjustment instructions under the cover.
- 2. Adjust the large spring only until the pressure switch turns on at 45 PSI.
- 3. Do not adjust the small spring. This will keep 20 psi differential.

B. HOW IT WORKS

Pressure switch is connected to the venturi throat pressure. The Bubble-Up mechanical pump control starts the pump when the pressure drops to 45 PSI. The pump will run constant when the flow is greater than $\frac{1}{2}$ to 1 GPM. When water flow falls below $\frac{1}{2}$ to 1 GPM, water fills the required cycle tank providing a minimum run time before the pump is shut off.

C. INSTALLATION

- 1. Use only 115 volt outlet for the Bubble-Up mechanical pump control.
- 2. The bottom 1" schedule 80 union and top ½" PEX fittings are to be water tight and secure.
- 3. Check that the pump is primed before plugging in the Bubble-Up mechanical pump control.
- 4. The Bubble-Up mechanical pump control is supplied with 115 volt electrical cords. Connect the pump's male power plug into the Bubble-Up mechanical pump control female cord.
- 5. To start the pump, refer to OPERATION below.
- 6. The pressure switch factory set at to turn the pump on at 45 PSI. To set pressure switch for proper operation see instructions above.
 - **WARNING!** Unplug the Bubble-Up mechanical pump control before removing the pressure switch cover.
- 7. Always use the bladder tank provided with the Bubble Up. The correct pre-charge air pressure in the tank is 40 psi.

Internal parts include: 2 - Check Valves, a Nozzle and Throat Assembly with retainer, Double Check Valve and Nozzle Retainer and 3 screws.



TECHNICAL DATA

Flow Rate	See Pressure flow chart below
Power source	115 Volt AC, 60 Hz, single phase
HP rating	1.5 HP 115 volt
Operating Pressure Range	0 – 75 PSI
Maximum Allowable Pressure	80 PSI
Maximum Liquid Temperature	100°F
Connection 1" SCD 80 union inlet, 1/2" PEX outlet	
Protection LevelUL Listed Pressure Switch & cords	

7 GPM Mechanical Pump Control Parts List	
1. 5/8" X 3/4" W/ Stop ELL-NP	9. Stainless steel nozzle retainer (single)
2. 1 1/4" X 3/4" Bushing-NP	10. Nozzle and Throat (part of repair kit)
3. 1 1/4" Bubble-Up Mechanical Pump Control Body	11. Stainless steel screws (qty. 3)
4. Back Mount Pressure Gauge	12. 1/4" PVC plug
5. 45/65 Standard Pressure Switch	13. Male And Female 115 Volt Power Cords
6. 1/4" Nickel plated hex nipple	14. Power cord connects to pressure switch (qty. 2)
7. Check valve (qty. 2, part of repair kit)	15. 1" Male X 1 1/4" Male Check Valve
8. Stainless steel check retainer (Single)	16. 1" PVC SCD 80 Union