

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 1/2" 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 rating1.5 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 Level.....UL 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