BRINE-TEK®

Liquid Level Controller

Installation Instructions
Controller in NEMA 4X Enclosure with Fill Valve and Pressure Switch

Belding Level Controller
Installation Instructions

1. Insert screws on controller (not included) into tank. Do not overtighten.
2. Install controller into tank. Make sure that the controller is level. Do not overtighten.
3. Insert fill valve into tank. Make sure that the fill valve is level. Do not overtighten.
4. Connect all wires to terminals on NEMA 4X enclosure. Make sure that all connections are tight. Do not overtighten.

Belding Level Controller
Inside of Belding Level Controller

Brine-Tek Liquid Level Controller
WARNING: To be installed by a licensed electrician only!
Do not install in hazardous area or near flammable materials.

WARNING:
- Pushing the GREEN START BUTTON (on the cover) will open the valve and start fill for the time entered.
- Pushing the RED STOP BUTTON (on the cover) will close the valve and stop the fill immediately.
- SET PRESSURE SWITCH before operating. With 7 ft. of water in the tank, adjust C and NC contacts to just open.

Belding Tank Technologies, Inc.
Toll Free: 800.253.4252 Ph: 616.794.1130 Fax: 616.794.3666
www.beldingtank.com e-mail: sales@beldingtank.com
Installation and Hook-Up:

1. Mount enclosure on suitable wall (preferably indoors but the enclosure is rated for outdoor service).
2. Install solenoid valve on 1” nipple. Arrow on valve points towards the tank (See bottom of the valve).
3. Install pressure switch (Barksdale) on ½” NPT connection on top of 1” nipple. **Do not over tighten!**
5. Using your piped in manual bypass or a hose, fill the tank to about 7 ft. with water. Using an ohmmeter, gently ADJUST THE PRESSURE SWITCH by rotating the knurled knob until the C and NC terminals Just Open.
6. Connect suitable cable and conduit from pressure switch to Belding Level Controller. Pressure switch terminal “C”, connects to HOT Terminal. Pressure switch terminal “NC” connects to Pressure Switch Terminal in Belding Level Controller. Seal all connections.
7. With ON/OFF switch in OFF (GREEN FLAG/SWITCH DOWN) position, connect Belding Level Controller to 120 VAC circuit.
8. Verify all wiring connections. Verify that your installation meets all Local Electrical and Building Codes and the National Electrical Code.
9. Turn on power (RED FLAG/SWITCH UP) to Belding Level Controller and observe operation of the system. When water level falls to about 7 ft., the WHITE PILOT light between the GREEN Start and RED Stop buttons will come on along with the solenoid, opening the fill valve. It will fill for the amount of time entered (20 minutes standard, adjust accordingly) on the TIMER SCREEN and then stop after time is complete or the RED Stop Button is pressed, at which time the WHITE PILOT light will go out and the solenoid will turn off.

Important Notes:

- Use padlocks on latches to prevent tampering.
- Only experienced electricians should install or operate.
- Do not over tighten pressure switch!
- Depressing the Start (GREEN Front Panel) button will open the Fill Valve for the amount of time entered on the TIMER SCREEN (20 minutes standard), pressing the UP ARROW will increase the time and pressing the DOWN ARROW will decrease the time. To Stop Filling, push the Stop (RED Front Panel) button or wait for the time to elapse.
Brine-Tek Liquid Level Controller   April 2020

NOTE: INSULATE EXTERIOR PIPING WHEN REQUIRED.

WATER INLET

BRINE TANK

PRESSURE SWITCH (BARKSDALE)

LEVEL CONTROLLER

INSTALL TEE WITH 1" TO 1/2" REDUCER BUSHING ON WATER INLET LINE. THREAD PRESSURE SWITCH INTO 1/2" REDUCER BUSHING.

SOURCE

Solenoid Valve

ALL PIPING & VALVES BY OTHERS.

BELDING LEVEL CONTROL

120 VAC