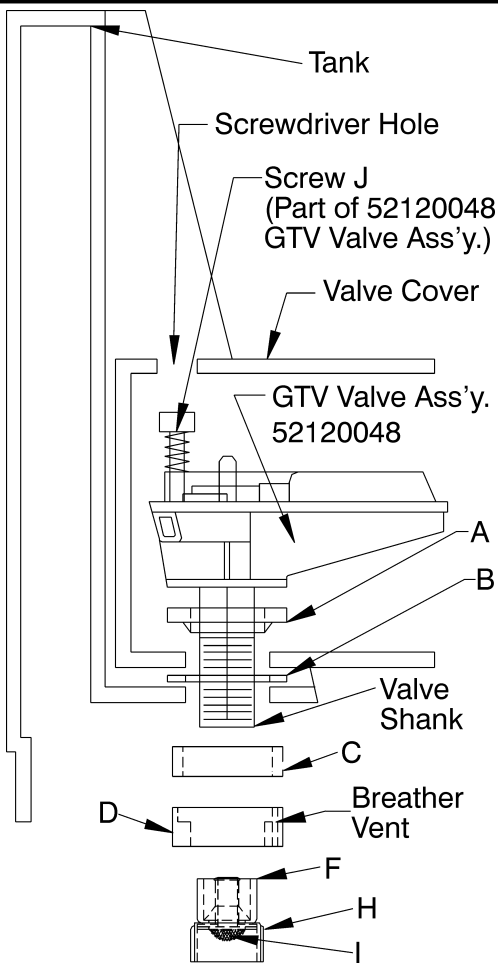


GTV Auto Fill Valve Installation

Hardware Kit 52120048

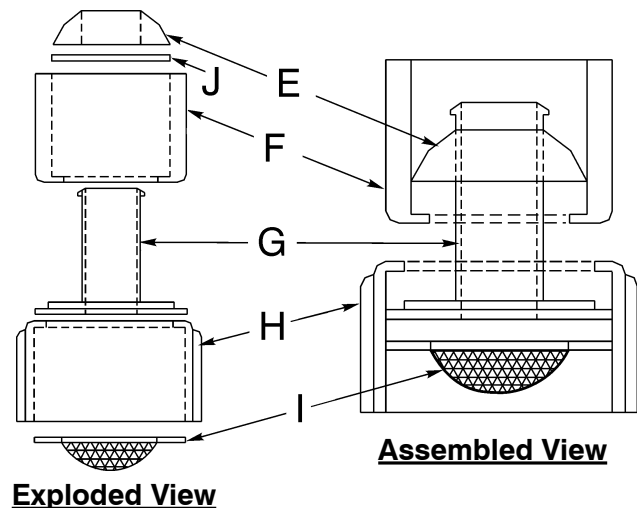
For questions about this product, or for parts inquiries, please contact our Customer Service Center listed below.



The GTV Valve installs easily in minutes without the use of special tools or sealant. Follow the instructions below to properly install new valves. If the valve is not a replacement, ignore steps 1, 2, 3 and 4.

1. Turn water supply to tank OFF and drain water out of tank.
2. Remove hose from nut H, then remove nut F from shank of valve, followed by nut D.
3. Slide spacer C off the shank.
4. Remove both the valve and valve cover (Do not lose washer B from between the tank and valve bracket).
5. Properly place gasket A on the shank of the new valve.
6. Place gasket B properly between the tank and valve cover, then slide the valve through the hole.
7. Slide spacer C onto the valve shank.
8. Hand tighten nut D onto the shank of valve. Do not put any form of SEALANT or GASKET between the tank and spacer C or between spacer C and nut D. Keep breather vent clear of obstruction.
9. Hand tighten nut F onto the shank of the valve, and then tighten nut H onto the hose.
10. Turn water to tank ON.
11. With a screwdriver, adjust screw J through the top hole of the valve cover for desired water level height. Turn the screw to the left to lower the water level and to the right to raise the water level.
12. Check for leaks. If the valve is leaking, with a pair of pliers, tighten nut D, F, and H one-half turn.

Ref. Letter	Description	Part No.
A	Rubber Gasket (Part of GTV Ass'y)	52120078
B	Rubber Gasket	6882294
C	1" PVC Spacer	52600038
D	Plastic Nut (Part of GTV Ass'y.)	52120078
E	Tapered Washer (Part of GTV Ass'y.)	52120078
F	Plastic Nut (Part of GTV Ass'y.)	52120078
G	Fitting Barb	1538006
H	Black Plastic Nut	2688333
I	Screen Washer	3948147
J	Clear Washer	52120078



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LIVESTOCK WATERING VALVE

Your Behlen Country drinker is equipped with a GTV watering valve. Hardware is included to give the user five different hookup options. Besides this drinker, the GTV valve can be used in a variety of different applications. Information on different applications is included in these instructions. The valve can be purchased separately if the user wishes to have a replacement on hand or wishes to use this valve in a different application. The part number is 52120048.

HOW IT WORKS

The GTV automatic unit uses a special diaphragm that measures the height of the water above the valve. This water height determines the point at which the valve shuts off. The unique adjusting knob on the unit allows the water level to be set from 4" to 20" above the valve. Therefore, for tanks less than 20" deep, the unit can be installed either through the bottom of the tank or the sidewall.

However, for tanks **deeper than 20"** the GTV automatic unit **must be installed through the sidewall of the tank**. The unit will fit all types of watering tanks (wood, steel, ceramic, plastic, etc.) up to 1/2" in wall thickness. It is capable of handling inlet pressures as high as 150 psi and will function properly with pressure as low as 10 psi.

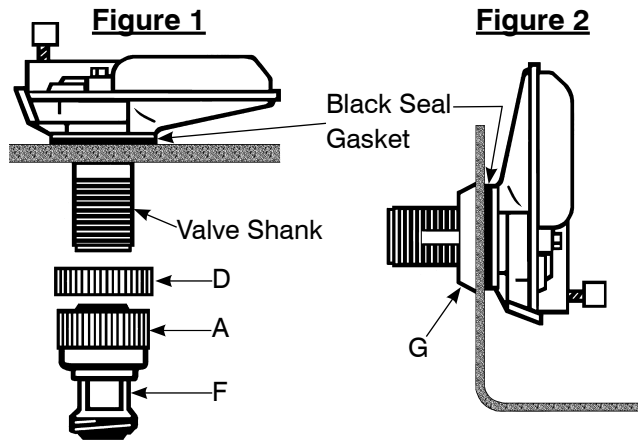
FREEZE PROOF INSTALLATION

In order to avoid freeze-ups of your GTV automatic unit, when used in unheated drinkers or tanks, be sure to mount the valve in the bottom of the tank at a minimum depth of 15". The water surrounding the valve at this depth will act as insulation and protect your valve from all surface freezing.

VALVE INSTALLATION INSTRUCTIONS

Unit must be placed between 4" and 20" below desired water level. Make sure black seal gasket is on the inside of tank.

- 1) Bore or drill a 1 1/4" diameter hole in the tank.
- 2) Place the threaded shank section of the unit through the hole, making sure that the black seal gasket which is already on the unit is on the inside of the tank as shown in Figure 1. In sidewall installations, the head of the unit must face the top of the tank as shown in Figure 2. NOTE: If the tank wall is less than 1/4" thick you must use the thin wall spacer adapter (G). Place this over the shank as shown in Figure 2.



- 3) Screw mount nut (D) onto the shank and tighten. **CAUTION: DO NOT OVERTIGHTEN. DO NOT USE PIPE DOPE, PUTTY OR OTHER SEALANTS WHEN CONNECTING TO METAL, COPPER PIPES, OR GARDEN HOSE. THEY WILL PREVENT THE UNIT FROM WORKING PROPERLY. HOWEVER, WHEN CONNECTING WATER SUPPLY TO PVC PIPE ADAPTER, PVC PIPE CEMENT MUST BE APPLIED.**

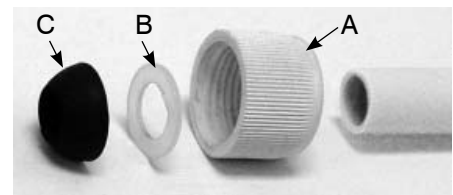
Some of our drinkers use a valve cover to protect the valve. If your drinker has a valve cover, please refer to #11 on the first sheet for more information.

CONNECTING WATER SUPPLY

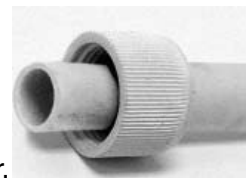
There are five different hookup options for connecting the water supply to the valve. After assembly of your particular method (see the following), connect the water supply to the union assembly.

3/8" O.D. Plastic or Copper Pipe

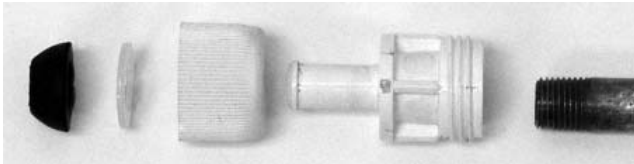
Make up a union assembly using 1/4" I.D. plastic pipe (copper can also be used. O.D. should be approximately 3/8" for both plastic and copper) or the special adapter



included with the GTV Automatic Livestock Watering Valve. Slip coupling nut (A), the flat washer (B) and cone washer (C), in that order, over the small end of either adapter.



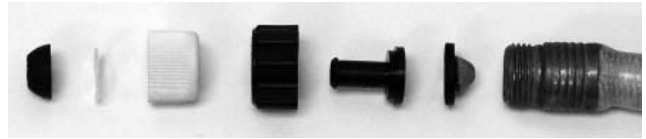
Using NPT 1/4" Pipe



Screw the 1/4 pipe into the adapter. Insert the adapter into the slip coupling nut, and then slide the clear washer over the adapter followed by the black cone shaped washer. An exploded view of the parts and the order they should be assembled in is provided above.



Using Male End Garden Hose



Place the filter over the male hose end so the filter bubble goes into the hose. Take the black adapter and insert it into the black coupling nut, then screw the black coupling nut onto the hole. Place the white coupling nut over the end of the black coupling nut, followed by the clear washer and the black cone washer with the cone side pointing out. An exploded view of the parts and the order they should be assembled in is provided above.



Using PVC Pipe

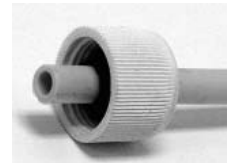


Insert the PVC pipe into the adapter, use appropriate adhesive for tubing. Slide the adapter into the slip coupling nut, and then slide the clear washer over the adapter followed by the black cone shaped washer. An exploded view of the parts and the order they should be assembled in is provided above.



Using Tubing

First slide the tubing into the coupling nut. Insert the washer into the coupling nut but over the tubing followed by the black cone-shaped washer. Then screw the coupling nut and assembly to the valve. An exploded view of the parts and the order they should be assembled in is provided above.



Using Female End Garden Hose



Slip the hose clamp over the tubing. Insert the black adapter into the black coupling nut, then insert the adapter into the tubing. Place the filter screen in the black coupling nut with the screen bubble facing out. Screw in the white adapter to the black coupling nut. Insert the white adapter into the slip coupling nut, and then slide the clear washer over the adapter followed by the black cone shaped washer. An exploded view of the parts and the order they should be assembled in is provided above.



CONNECTING SUPPLY LINE

NOTE: Pipe sealant must **NOT** be used when connecting the water supply to copper pipe, metal pipe or garden hose. **HOWEVER, WHEN CONNECTING WATER SUPPLY TO PVC PIPE ADAPTER, PVC PIPE CEMENT MUST BE APPLIED.**

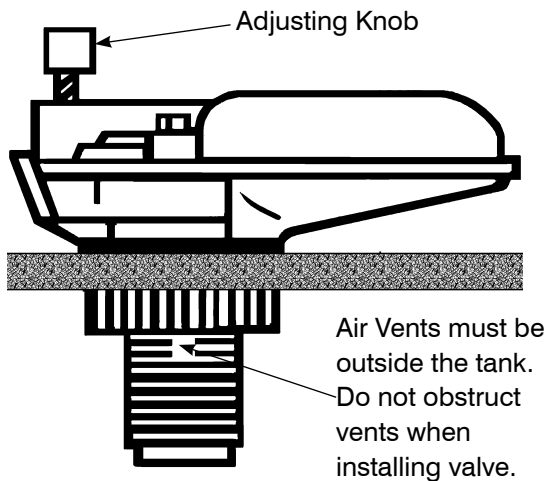
Flush supply piping line before connecting the union assembly to the shank of the unit. Connect water supply to the GTV automatic unit and tighten coupling nut.

VALVE OPERATION

Turn on the water supply. The GTV automatic unit will now fill the tank. The unit has been pre set for a water height of approximately 8" above the valve.

To adjust water level, turn the adjusting knob (see illustration below) clockwise to raise the level, and counter clockwise to lower it. One full turn of the knob will change the water level approximately 2".

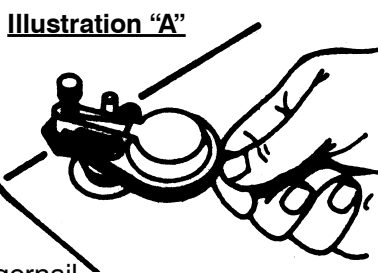
NOTE: If you have a drinker with a valve guard you will need to use a screw driver to go through the adjustment hole in the guard to reach the valve.



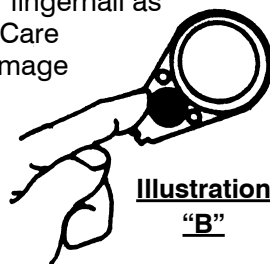
MAINTENANCE INSTRUCTIONS

If your watering valve does not shut off completely, simply follow these easy cleaning instructions.

- 1) Turn off the water supply to the watering tank. Remove the two screws on top of the valve. Remove the top cover by inserting your fingernail into the crack as shown in Illustration "A".



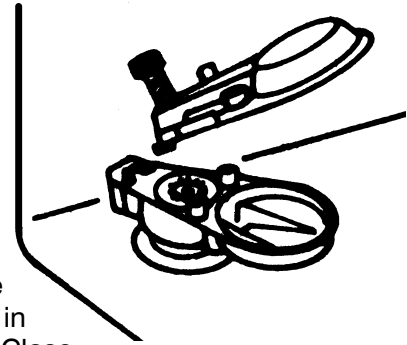
- 2) Lift off the cover and you will see a small black rubber disk inserted in the cover. Carefully remove this disk with your fingernail as shown in Illustration "B". (Care should be taken not to damage any parts while removing the disk.) You may reuse this disk after washing and wiping it off or replace it with a new replacement disk



(PRFP 1150), available where you purchased your valve.

- 3) Reinsert the disk with the smooth side showing. Finish reassembling the valve. The interlocking tabs on the small end of the cover should slide into the corresponding end of the valve body as shown in Illustration "C". Close cover and reinstall screws, being careful not to over tighten them. Turn the water supply back on.

Illustration "C"



WARRANTY

The GTV valve has a one year warranty. Proof of purchase necessary. Contact either Behlen Mfg. Co. at the address on the front of this manual

or

FILLpro, Inc.
17301 W. Colfax Ave #302
Golden, Colorado 80401

(Ph: 303-278-7822)