

The Warden® AST Overfill Limiter Installation Instructions

The Warden AST Overfill Limiter is designed for use on Aboveground Storage Tanks (AST). Where the product is pumped from the transport truck to the AST, the auto limiter will stop the flow when the level in the tank reaches a predetermined point.

Important: check to make sure all parts have been provided before installation has begun, and do not substitute parts other than those supplied.

Warning: Failure to follow instructions or substitution of parts other than EBW supplied, may cause failure of the device which may create a hazardous condition and/or environmental damage.

Warning: EBW products should be used in compliance with applicable federal, state, and local laws and regulations. Product selection should be based on physical specifications and limitations and compatibility with environmental and material to be handled. EBW makes no warranty or fitness for a particular use.

Warning: in order to prevent product spillage from the aboveground storage tank (AST), properly maintained delivery equipment and a proper tight fill connection are essential. Failure to properly connect the delivery hose or disconnecting a pressurized line will cause a hazardous spill which may result in personal injury, property damage, fire, explosion, or environmental contamination.

Product Warranty: All EBW, Inc. equipment is thoroughly tested before shipment and guaranteed to the extent of replacing only goods found to be defective in manufacture. EBW cannot allow claims for labor or consequential damage resulting from purchase, installation, or misapplication or our products.

Shipping List

- One (1) Hose Clamp 708-160-01
- One (1) Valve assembly 709-400-01
- One (1) Instruction manual form no. 6128
- One (1) Warning Plate 709-211-01



Picture 1

Tools needed for installation and assembly. (Picture 1)

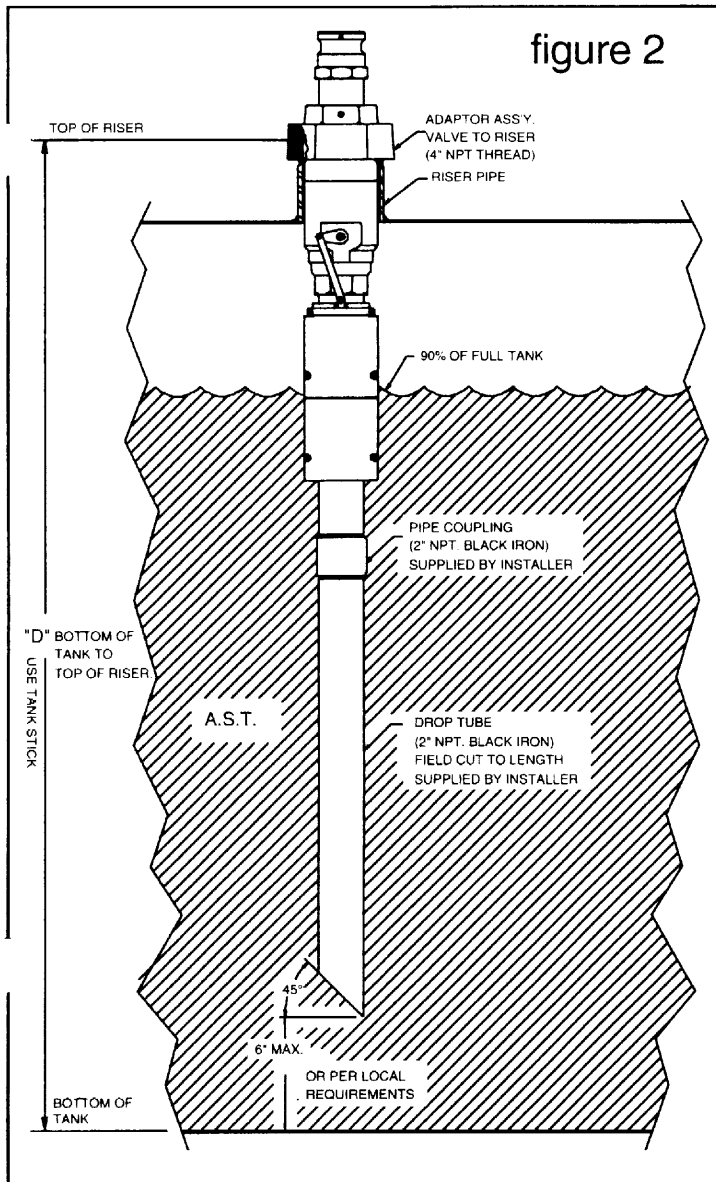
1. Tape measure.
2. Two Pipe wrenches.
3. 1/8" Hex key.
4. Fuel resistant thread sealant.
5. Permanent marker.
6. Hack saw
7. Petroleum jelly

To Be supplied by installer

1. 2" NPT coupling (black iron)
2. Drop tube of proper length for tank that the valve is being installed in. 2" NPT threaded one end (black iron.)

Installation

The Warden is packaged assembled. The adapter assembly-valve to riser is loosely positioned on the upper 4" long pipe nipple. The 4" long upper pipe nipple will accommodate a riser pipe of up to 7" long (see Fig. 1 dimension "A"). If the riser is longer than 7" a longer upper pipe nipple will have to be added at the time of installation.



of the lower pipe nipple. (Picture 4) (Dimension "C" Figure 1.) Add 6" (or per local codes or requirements) to Dimension "C" and subtract from Dimension "D" to get the length of the lower drop tube.

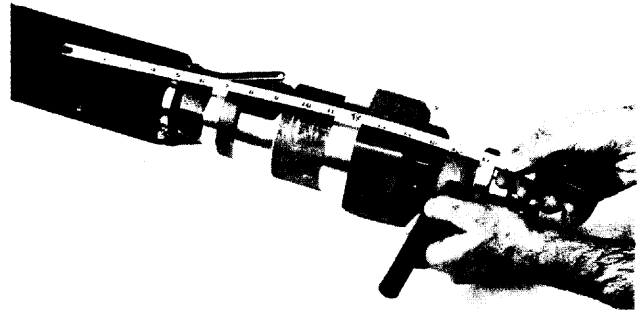
$$\text{"D"} - (6" + \text{"C"}) = \text{Lower drop tube length.}$$

8. Cut lower drop tube to length, and thread one end. (2" NPT thread, black iron pipe). Cut the lower end of the pipe at a 45° angle. (Picture 5)

9. Apply fuel resistant pipe sealant to the drop tube threads, and assemble the 2" black iron coupling to the drop tube.

10. Apply fuel resistant pipe sealant to the threads of the lower pipe nipple and assemble the drop tube assembly to the valve. (Picture 6)

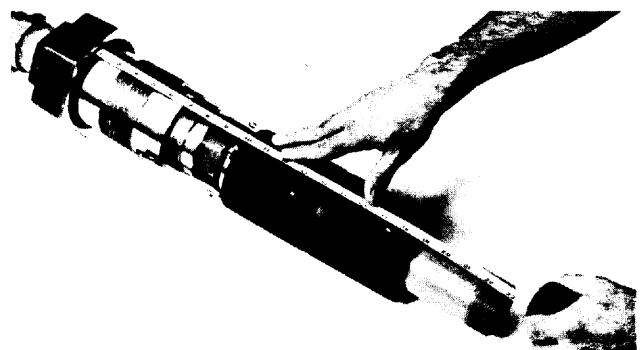
11. Check the tank riser pipe inside diameter for any burrs, improper reaming, or foreign material. Failure to do so may damage or prevent the valve from functioning. Properly apply fuel resistant pipe sealant to the riser pipe threads.



Picture 2



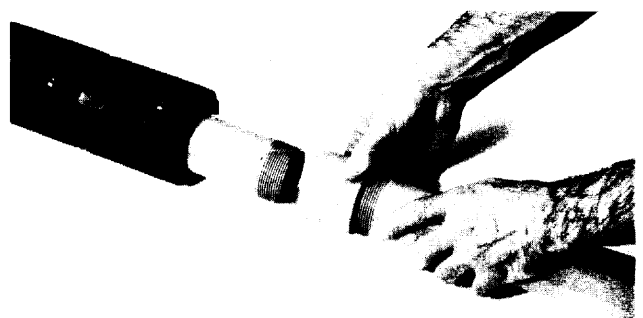
Picture 3



Picture 4



Picture 5



Picture 6

12. Stand the valve assembly upright and operate the float assembly to make sure that no damage was caused during assembly.

13. Carefully lower the complete valve assembly down the riser pipe. (Picture 7) **Hold the assembly by the adaptor assembly. Do not force the valve down the riser pipe.** If the valve does not fit, the riser pipe will have to be cleaned or deburred before insertion of the valve.

14. Thread the adapter and valve assembly to the riser pipe and secure.

Note: If a longer upper pipe nipple is required, use the following steps.

15. Disassemble the upper pipe nipple, adapter assembly-valve to riser, and cam-lock adapter from the valve assembly. (Picture 8)

16. Determine the length of the longer upper pipe nipple using the previous steps 3 and 4.

17. Apply fuel resistant pipe sealant to the thread of the longer upper pipe nipple and assemble to the cam lock adapter.

18. Apply a generous amount of grease (Picture 9) to the O-ring in the adapter assembly and slide it onto the nipple with its 4" threaded away from the cam-lock adapter.

19. Apply fuel resistant pipe sealant to the threads of the nipple and assemble to the valve body.

20. Go back to step #4 and proceed with the normal installation steps 4 through 14.

Filling Procedure

1. The nozzle must be equipped with a cam lock coupler to provide a tight fill connection to the Auto Limiter.

2. Attach the coupler to the fill adapter and lock in place.

3. Turn on the pump.

4. Slowly open the nozzle.

5. A quick jump in the delivery hose indicates that the valve has shutoff.

Disconnecting Procedures

1. After the Warden has shut-off, close the nozzle.

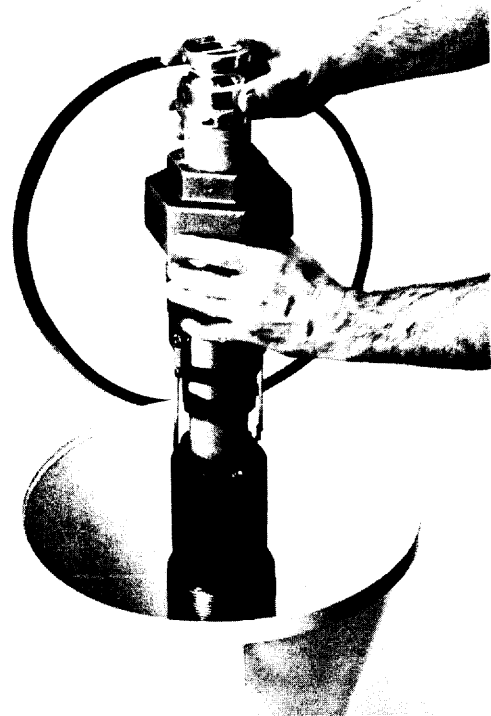
2. Turn off the pump.

3. Re-open the nozzle and wait approximately two minutes which will allow the pressure in the hose to dissipate.

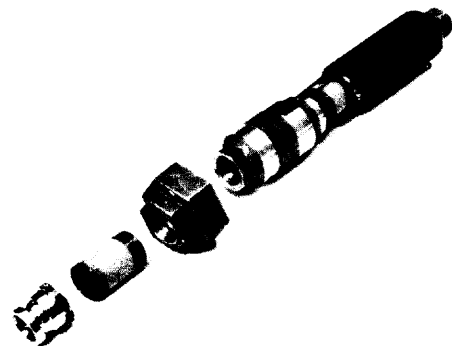
4. Close the nozzle and slowly unlock the coupler.

5. Remove the nozzle and replace the dust cap.

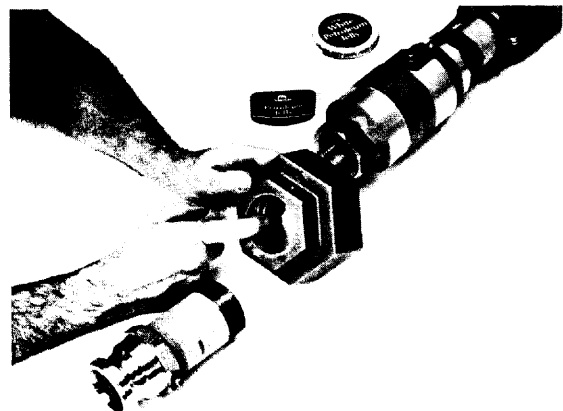
Warning: If the nozzle is disconnected with a pressurized hose, it will cause a hazardous spill.



Picture 7



Picture 8



Picture 9



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