

TIRE TANK FLOAT OPTIONS

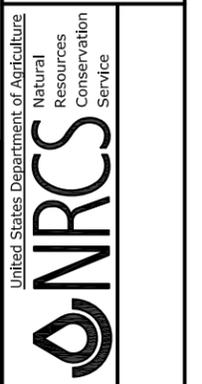
NOTES:

1. Lever type float valves often require a considerable amount of force to stop the flow of water, especially with pressure systems. When this type of valve is used with PVC pipe, breakage can occur below the valve body as a result of excessive flexing or animal damage. Metal pipe is recommended. PE pipe will work, but flexing may cause float shut off problems. One of the following or an equivalent method shall be used to prevent animals from nudging the float. Method 1 is to use wooden posts set on both sides of the tank with heavy boards attached above the float. Method 2 is to use wooden or metal bars bolted across the top of the tank on both sides of the float and attached to the posts. Method 3 is to use treated 2x6 boards laid flat across float valve assembly and bolted to tire with 4 - minimum 5/16" lag bolts, 6 inches long or equivalent bolts. All methods will also help prevent animals from standing in the tank.
2. When using PVC as the supply pipe, a "Gallagher" style float valve or equivalent works well. They require little effort to shut off and their compact size with string attached float reduce the chances of animal damage. A Hudson float valve also works well. While functional in both vertical and horizontal positions, install horizontally with pressure systems and shallow tanks. **NOTE: Be sure the float you purchase has pipe threads (NPT). Not all do.**
3. If using a manually operated valve for ice prevention, a hose bib works well. They are inexpensive and a handle can be made easily from PVC pipe to adjust the flow without getting wet. If the valve has been shut off, expansion of the rubber seat will reduce flow. Therefore, initially open the valve more than needed to compensate. This will not be a problem if using a gate valve. When adjusted correctly, a Walters valve will flow water at below freezing temperatures and shut off above freezing.

DRAFT
NOT FOR
CONSTRUCTION

Designed	_____	Date	_____
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PRESSURE WATER SYSTEMS WITH
 HEAVY EQUIPMENT TIRE TANK



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Drawing Name	29-N-78C
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