

**567—49.20(455B) Hydropneumatic (pressure) tanks.**

**49.20(1) *Sizing.*** With the exception of tanks that utilize VFDs, pressure tanks shall have an effective water volume large enough to allow the well pump to operate at least one minute between low-pressure activation and high-pressure shut off while no water is being used by the system. The minimum pressure shall be set according to the manufacturer's recommendation.

**49.20(2) *Constant pressure pump.*** Constant pressure/variable speed pumps shall be sized and operated at the minimum pressure according to manufacturer's recommendation.

**49.20(3) *Pressure relief valve.*** Tanks shall have a pressure relief valve sized according to the pump capacity, if the pump is capable of developing pressure greater than the working pressure of any system component. The pressure relief valve shall be located prior to any shut-off valve on the distribution system side of the tank.

**49.20(4) *Pressure gauge.*** Tanks shall have a pressure gauge capable of reading at least 100 psi.

**49.20(5) *Tank appurtenances.*** If a non-bladder tank is used, it shall be equipped with a means of adding or venting air from the tank to maintain the proper air-water ratio.

**49.20(6) *Tank location.*** Buried pressure tanks are prohibited. If pressure tanks are not located in a residence or other heated structure, they shall be located in a buried vault or aboveground structure.

*a. Buried vault (frost pit).* The vault and vault opening shall be sized to allow ease of access for the installation and maintenance of necessary equipment. The vault shall be as watertight as possible, allow for drainage via drain tile or sump pump, and have at least one foot of rock or gravel above the tile. All wiring in the vault shall be in watertight conduit. No buried vault shall be allowed within a 100-year flood plain.

*b. Aboveground structure.* The structure and access opening shall be sized to allow the installation and maintenance of necessary equipment. The structure shall be insulated and heated to prevent tank freezing. Structures with concrete floors shall be at least four inches above the surrounding ground and be sloped to a drain or to the door to facilitate drainage. If the structure is located over the well, it shall have a hinged roof or removable hatch over the well or have other provisions for pulling the well pump.

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