§ 64.13 Allowable stress; tank.

(a) In accordance with the ASME Code and this subpart;
   (b) With a maximum gross weight of 55,000 pounds;
   (c) To hold a liquid cargo that has a vapor pressure of 43 pounds per square inch absolute (psia) or less at a temperature of 122 °F;
   (d) With a minimum service temperature of 0 °F or higher;
   (e) With a maximum allowable working pressure of not less than 20 pounds per square inch gauge (psig) but not more than 48 psig; and
   (f) To withstand dynamic loading conditions applied simultaneously.


§ 64.15 Allowable stress; framework.

The calculated stress for the framework must be 80 percent or less of the minimum yield stress of the framework material under the dynamic loading conditions that are applied simultaneously.

§ 64.17 Minimum tank thickness.

(a) Except as allowed in paragraph (b) of this section, a tank with a diameter of—
   (1) 6 feet or less must have a shell and head of \( \frac{3}{8} \) inch thickness or more; or
   (2) More than 6 feet must have a shell and head of \( \frac{1}{4} \) inch thickness or more.

1Listed in Division 1 of section VIII of the ASME Code.

§ 64.19 External pressure.

(a) A tank without a vacuum breaker must be designed to withstand an external pressure of 7½ psig or more.
   (b) A tank with a vacuum breaker must be designed to withstand an external pressure of 3 psig or more.

§ 64.21 Material.

The material for a tank must meet the requirements in Division 1 of section VIII of the ASME Code.


§ 64.23 Gasket and lining.

Each gasket and lining must be made of material that is—

(a) Chemically compatible with the product for which the tank is approved;
   (b) Resistant to deterioration from the product for which the tank is approved.

§ 64.25 Cross section.

A tank must have a cross section design that is—

(a) Circular; or
   (b) Other than circular and stress analyzed experimentally by the method contained in UG–101 of the ASME Code.


§ 64.27 Base.

The base of an MPT must be as wide and as long as the tank.

§ 64.29 Tank saddles.

If a tank is not completely supported by a framework, it must be supported by two or more external saddles, each of which extends to 120 degrees or more of the shell circumference.

§ 64.31 Inspection opening.

An MPT must have an inspection opening that is designed in accordance