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performed, and the repaired areas must be retested.
(e) Verification must be made of the interior cleanliness of a tank constructed for oxygen service by means that assure that all contaminants that are likely to react with the lading have been removed as required by § 178.338–15.


§ 178.338–17 Pumps and compressors.
(a) Liquid pumps and gas compressors, if used, must be of suitable design, adequately protected against breakage by collision, and kept in good condition. They may be driven by motor vehicle power take-off or other mechanical, electrical, or hydraulic means. Unless they are of the centrifugal type, they shall be equipped with suitable pressure actuated by-pass valves permitting flow from discharge to suction to the tank.
(b) A valve or fitting made of aluminum with internal rubbing or abrading aluminum parts that may come in contact with oxygen (cryogenic liquid) may not be installed on any cargo tank used to transport oxygen (cryogenic liquid) unless the parts are anodized in accordance with ASTM B 580 (IBR, see § 171.7 of this subchapter).


§ 178.338–18 Marking.
(a) General. Each cargo tank certified after October 1, 2004 must have a corrosion-resistant metal name plate (ASME Plate) and specification plate permanently attached to the cargo tank by brazing, welding, or other suitable means on the left side near the front, in a place accessible for inspection. If the specification plate is attached directly to the cargo tank wall by brazing, welding, or other suitable means on the left side near the front head, in a place accessible for inspection, the cargo tank serial number assigned by the cargo tank manufacturer must be included on the plate.
(b) Name plate. The following information must be marked on the name plate in accordance with this section:
(1) DOT-specification number MC 338 (DOT MC 338).
(2) Original test date (Orig, Test Date).
(3) MAWP in psig.
(4) Cargo tank test pressure (Test P), in psig.
(5) Cargo tank design temperature (Design Temp. Range) ___ °F to ___ °F.
(6) Nominal capacity (Water Cap.), in pounds.
(7) Maximum design density of lading (Max. Lading density), in pounds per gallon.
(8) Material specification number—shell (Shell matl. yyy ** *), where “yyy” is replaced by the alloy designation and “** *” is replaced by the alloy type.
(9) Material specification number—heads (Head matl. yyy ** *), where “yyy” is replaced by the alloy designation and “** *” is replaced by the alloy type.

§ 178.338–19 Certification.

(a) At or before the time of delivery, the manufacturer of a cargo tank motor vehicle shall furnish to the owner of the completed vehicle the following:

(1) Cargo tank serial number (CT serial), as assigned by cargo tank manufacturer, if applicable.

(2) Cargo tank manufacturer (CT mfr.), month and year.

(3) Max. payload, in pounds.

(4) Max. load rate, GPM.

(5) Max. unload rate.

(6) Lining materials (Lining), if applicable.

(Note 1 to Paragraph (c): See §173.315(a) of this chapter regarding water capacity.)