

Specification for Bolted Tanks for Storage of Production Liquids

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Specification for Bolted Tanks for Storage of Production Liquids

1 Scope

1.1 This specification covers material, design, fabrication, and testing requirements for vertical, cylindrical, aboveground, closed and open top, bolted steel storage tanks in various standard sizes and capacities for internal pressures approximately atmospheric, not to exceed those listed in Section 4.1.

1.2 This specification is designed to provide the oil production industry with safe and economical bolted tanks for use in the storage of crude petroleum and other liquids commonly handled and stored by the production segment of the industry. This specification is for the convenience of Purchasers and Manufacturers in ordering and fabricating tanks.

NOTE See Annex C for a list of items that should be specified by the tank Purchaser and conveyed to the tank Manufacturer. See Annex D information related to the API Monogram program for tank Manufacturers.

2 Normative References

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

API Recommended Practice 12R1, *Recommended Practice for Selection, Maintenance, Inspection, Operation and Repair of Tanks in Production Service*

API Specification 5L, *Specification for Line Pipe*

API Specification 6A, *Specification for Wellhead and Christmas Tree Equipment*

API Standard 650, *Welded Steel Tanks for Oil Storage*

API Standard 2000, *Venting Atmospheric and Low-pressure Storage Tanks*

ASCE 7¹, *Minimum Design Loads for Buildings and Other Structures*

ASME B1.1², *Unified Inch Screw Threads, (UN and UNR Thread Form)*

ASME B16.11, *Forged Fittings—Socket-Welding and Threaded*

ASME B18.2.1, *Square, Hex, Heavy Hex, and Askew Head Bolts and Hex, Heavy Hex, Hex Flange, Lobed Head, and Lag Screws (Inch Series)*

ASME B18.2.2, *Nuts for General Applications: Machine Screw Nuts, Hex, Square, Hex Flange, and Coupling Nuts (Inch Series)*

ASTM A36³, *Standard Specification for General Requirements for Rolled Structural Steel Bars, Plates, Shapes, and Sheet Piling*

ASTM A36, *Standard Specification for Carbon Structural Steel*

¹ American Society of Civil Engineers, 1801 Alexander Bell Drive, Reston, Virginia 20191, www.asce.org

² ASME International, 2 Park Avenue, New York, New York 10016-5990, www.asme.org.

³ ASTM International, 100 Barr Harbor Drive, West Conshohocken, Pennsylvania 19428, www.astm.org.