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 Purpose

This specification provides the oil production industry with safe, economical tanks for storing liquids.

1.2 Scope

This specification establishes minimum requirements for material, design, fabrication, erection, inspection, and marking of vertical, cylindrical, aboveground, unanchored, closed- and open-top, bolted storage tanks in standard sizes designed for the loads specified in Section 5.

2 Normative References

The following documents are referenced by this specification. For dated references, only the edition cited applies:

AISC 360-16[1], *Specification for Structural Steel Buildings*

API Standard 12R1, *Installation, Operation, Maintenance, Inspection, and Repair of Tanks in Production Service*, 6th Edition

API Specification 5L, *Line Pipe*, 46th Edition

API Specification 6A, *Specification for Wellhead and Christmas Tree Equipment*, 20th Edition

API Specification 12F, *Specification for Shop-Welded Tanks for Storage of Production Liquids*, 13th Edition

API Standard 650, *Welded Steel Tanks for Oil Storage*, 12th Edition, Addendum 2

API Standard 2000, *Venting Atmospheric and Low-pressure Storage Tanks*, 7th Edition

ASCE 7-16[2], *Minimum Design Loads for Buildings and Other Structures*

ASME B1.1-2003[3], *Unified Inch Screw Threads, (UN and UNR Thread Form)*

ASME B16.11-2016, *Forged Fittings, Socket-Welding and Threaded*

ASME B18.2.1-2012, *Square, Hex, Heavy Hex, and Askew Head Bolts and Hex, Heavy Hex, Hex Flange, Lobed Head, and Lag Screws (Inch Series)*

ASME B18.2.2-2015, *Nuts for General Applications: Machine Screw Nuts, Hex, Square, Hex Flange, and Coupling Nuts (Inch Series)*

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[1] American Institute of Steel Construction, 130 East Randolph, Suite 2000, Chicago, Illinois 60601, www.aisc.org.
[2] American Society of Civil Engineers, 1801 Alexander Bell Drive, Reston, Virginia 20191, www.asce.org.
[3] ASME International, 2 Park Avenue, New York, New York 10016-5990, www.asme.org.