



PROCESS
INDUSTRY
PRACTICES

TECHNICAL REVISION
November 2016

Vessels

**PIP VEETA001
Tank Selection Guide**

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PURPOSE AND USE OF PROCESS INDUSTRY PRACTICES

In an effort to minimize the cost of process industry facilities, this Practice has been prepared from the technical requirements in the existing standards of major industrial users, contractors, or standards organizations. By harmonizing these technical requirements into a single set of Practices, administrative, application, and engineering costs to both the purchaser and the manufacturer should be reduced. While this Practice is expected to incorporate the majority of requirements of most users, individual applications may involve requirements that will be appended to and take precedence over this Practice. Determinations concerning fitness for purpose and particular matters or application of the Practice to particular project or engineering situations should not be made solely on information contained in these materials. The use of trade names from time to time should not be viewed as an expression of preference but rather recognized as normal usage in the trade. Other brands having the same specifications are equally correct and may be substituted for those named. All Practices or guidelines are intended to be consistent with applicable laws and regulations including OSHA requirements. To the extent these Practices or guidelines should conflict with OSHA or other applicable laws or regulations, such laws or regulations must be followed. Consult an appropriate professional before applying or acting on any material contained in or suggested by the Practice.

This Practice is subject to revision at any time.

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PUBLISHING HISTORY

May 2001 *Issued as VECTA001*
June 2009 *Complete Revision and Renumbering*
November 2016 *Technical Revision*

Not printed with State funds



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1. Scope

This Practice provides guidelines for the selection and specification of aboveground storage tanks.

This Practice describes guidelines for storage of liquid products in tanks at design pressures from atmospheric to 15 psig (103 kPa). This Practice provides guidance for avoiding recurring problems and outlines preferred practices where appropriate. Although this Practice is intended primarily for carbon steel tanks, most of the guidelines are applicable regardless of the material of construction.

Comment: Requirements for specifying and supplying API 650 tanks are defined in PIP VESTA002.

2. References

Applicable parts of the following Practices, industry codes and standards, and references shall be considered an integral part of this Practice. The edition in effect on the date of contract award shall be used, except as otherwise noted. Short titles are used herein where appropriate.

2.1 Process Industry Practices (PIP)

- VESFG001 - *Fiberglass Tank and Vessel Selection, Design, and Fabrication Specification, ASME RTP-1 and Section V*
- VESLP001 - *Specification for Low-Pressure, Welded Shop-Fabricated Vessels*
- VESTA002 - *Atmospheric Storage Tank Specification (Supplement to API Standard 650)*

2.2 Industry Codes, Standards, Recommended Practices, and Bulletins

- American Petroleum Institute (API)
 - ANSI/API 12B - *Specification for Bolted Tanks for Storage of Production Liquids*
 - ANSI/API 12D - *Specification for Field Welded Tanks for Storage of Production Liquids*
 - ANSI/API 12F - *Specification for Shop Welded Tanks for Storage of Production Liquids*
 - ANSI/API 12P - *Specification for Fiberglass Reinforced Plastic Tanks*
 - ANSI/API 575 - *Inspection of Atmospheric and Low-Pressure Storage Tanks*
 - API 620 - *Design and Construction of Large, Welded, Low-Pressure Storage Tanks*
 - API 650 - *Welded Steel Tanks for Oil Storage*
 - API 651 - *Cathodic Protection of Aboveground Petroleum Storage Tanks*
 - ANSI/API 652 - *Lining of Aboveground Petroleum Storage Tank Bottoms*
 - API 653 - *Tank Inspection, Repair, Alteration, and Reconstruction*
 - API 2000 - *Venting Atmospheric and Low-Pressure Storage Tanks Non-refrigerated and Refrigerated*
 - API 2003 - *Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents*