PROCESS INDUSTRY PRACTICES

REAFFIRMATION WITH EDITORIAL REVISION
October 2020

Vessel

PIP VEDV1003
Documentation Requirements for Vessels
ASME *Code* Section VIII, Divisions 1 and 2

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.

PUBLISHING HISTORY

August 199	*Issued*	*March 2012*	*Complete Revision*
November 1999	*Complete Revision*	*October 2020*	*Reaffirmation with Editorial Revision*
February 2007	*Complete Revision*		

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Appendixes

Data Forms

1. Scope

This Practice provides data forms and the associated instructions for specifying requirements for pressure vessels constructed in accordance with ASME *Boiler and Pressure Vessel Code*, Section VIII, Division 1 or Division 2, henceforth referred to as the *Code*. Requirements that are specific to *Code*, Section VIII, Division 2 are shown in braces { }.

This Practice is used with *PIP VECV1001* and *VESV1002* to specify information necessary for the manufacturer to design and fabricate a pressure vessel.

2. References

Applicable parts of the following Practices and industry codes and standards 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)

- PIP STF05501 - *Fixed Ladders and Cages Fabrication Details*
- PIP STF05520 - *Details for Pipe Railing for Walking and Working Surfaces*
- PIP STF05521 - *Details for Angle Railing for Walking and Working Surfaces*
- PIP STF05535 - *Vessel Circular Platform Details*
- PIP VECV1001 - *Design Criteria and Purchasing Requirements for Vessels, ASME Code, Section VIII, Divisions 1 and 2*
- PIP VEFV1100(M) - *Vessel/S&T Heat Exchanger Standard Details*
- PIP VESV1002 - *Design and Fabrication Specification for Vessels ASME Code, Section VIII, Divisions 1 and 2*

2.2 Industry Codes and Standards

- American Society of Civil Engineers (ASCE)
  - ASCE 7 - *ASCE Minimum Design Loads and Associated Criteria for Buildings and Other Structures*
- American Society of Mechanical Engineers (ASME)
  - *ASME Boiler and Pressure Vessel Code, Section VIII, Divisions 1 and 2*
  - ASME B16.47 - *Large Diameter Steel Flanges NPS26 through NPS60 Metric/Inch Standard*
  - ASME B16.5 - *Pipe Flanges and Flanged Fittings: NPS 1/2 through NPS 24 Metric/Inch Standard*
- American Welding Society (AWS)
  - AWS 2.4 - *Standard Symbols for Welding, Brazing and Nondestructive Examination*