

UNDERSTANDING PRESSURE VESSEL FABRICATION WITH ASME COMPLIANCE

Day-to-day business operations can be stressful in any industry. However, designing fabricated products for your facility shouldn't be. Take the pressure off by contracting a fabrication company with trustworthy credentials to guarantee the functionality of your ASME pressure vessel!

What is ASME?

ASME stands for the American Society of Mechanical Engineers. Their certification verifies a company's ability to continuously meet safety and quality standards. Founded in 1880, ASME provided a setting for engineers to discuss the concerns about the increase of industrialization and mechanization. [1] By 1911, ASME Boiler and Pressure Vessel Code (B&PVC) was formed to protect the safety of the public. The ASME Code outlines rules for the design, fabrication, and inspection of boilers and pressure vessels. It is the mission of the ASME B&PVC to protect the life and property of the public while assuring a long, useful service life to all pressure components designed and fabricated under this standard. [2]

Accreditations

An ASME Pressure Vessel is a steel pressure vessel that meets the industry quality standards for holding liquids, vapors, and gases at high pressures. To protect the safety of employees and the public, it is vital to enlist a fabricator with the following accreditations.

- American Society of Mechanical Engineers (ASME)
- American Welding Society (AWS)

Depending on the industry, further accreditations may be necessary.

- Oil and Gas: American Petroleum Institute (API)
- Water: American Water Works Association (AWWA)
- Energy and Safety: UL Solutions (UL)
- Etc.

Standards

While accreditations are useful in choosing your ASME pressure vessel fabricator, it is equally important to ensure that they meet the correct standards. The following standards and codes are an excellent starting point, but more may be required depending on the industry.

- ASME Section VIII Division 1 Code
- ASME Section VIII Division 2 Code
- ASME Section IX Code
- AWS D1.1 Standard
- AWS D1.6 Standard
- API 510
- API 620
- OSHA 1910
- OSHA 1915
- OSHA 1926

At Dixie Southern, we recognize the importance of quality pressure vessel fabrication. Our ASME Accredited facility has decades of experience in designing, fabricating, assembling, and inspecting custom ASME tanks and pressure vessels that meet Section VIII Division 1 or Division 2 Codes. Dixie Southern's ASME pressure vessel fabrication process follows your specifications while assisting with design optimization. We provide tank storage solutions for gaseous products in carbon steel or stainless steel. At our 12-acre, 65,000 square foot manufacturing facility located in West Central Florida, we have professional designers, welders, and fabricators to create your custom heavy pressure vessels to your sizes or applications. Request your quote today!

References

1. <https://www.asme.org/about-asme/engineering-history>
2. <https://www.asme.org/topics-resources/content/the-history-of-asmes-boiler-and-pressure>
3. <https://www.osha.gov/pressure-vessels/standards>