



ASME BPVC.

Information for Manufacturers.

WHAT IS ASME BPVC?

ASME (American Society of Mechanical Engineers) BPVC (Boiler & Pressure Vessel Code, known as the Code) is a recognized pressure vessel design, manufacturing, testing and certification regulation. The Code covers the design of steam and heating boilers, unfired, fired and fiber-reinforced plastic pressure vessels, transport containers and nuclear components.

The ASME has published the ASME Code books every two years since 1915. The Code is officially published in English (Sec I also in Spanish) and currently there are more than 100,000 copies in over 100 countries.

WHERE CAN THE ASME BPVC BE USED?

Laws and regulations issued by the provincial Regulatory Authorities having jurisdiction at the place of installation define the application of the ASME Code. Those laws and regulations may require the use of ASME Code or other construction codes and standards. Currently 113 countries adopt, accept and/or recognize the ASME Code making it the most widely used standard for boilers and pressure vessels worldwide and thus making the ASME certification one of the most important and attractive approvals for the manufacturers.

WHAT IS AN ASME CERTIFICATION?

Manufacturers shall have been authorized by ASME before being permitted to stamp their products with the ASME Certification Mark. The involvement of an Authorized Inspection Agency (AIA) is required for the successful completion of an ASME Joint Review or Nuclear Survey and for the duration of the certification period. The exception would be for overpressure protection devices and heating boilers from cast iron and cast aluminum.

Some of the advantages of being certified is the permission to use the ASME Certification Mark, opportunity to enter new markets, very good reputation, safe products constructed in full compliance with the Code, recognized quality system, and registration in the list of ASME authorized organizations (<https://caconnect.asme.org/certificateHolderSearch>). ASME Certificate of Authorization is valid for 3 years (1 year for miniature pressure vessels and heating boilers from cast iron and cast aluminum).

WHY TÜV RHEINLAND?

As a corporate affiliate of TÜV Rheinland Industrial Service GmbH, TÜV Rheinland AIA Services, LLC is an Authorized Inspection Agency that can assist you through the whole certification process and subsequent construction of your products according to the ASME Code. Our global network of qualified authorized inspectors (AIs) will advise and assist you to comply with all Code requirements.



OUR SERVICES

IN THE CONTEXT OF ASME CERTIFICATION

Assistance in:

- Preparation of Quality Control Manuals
- Welding procedure and performance qualification
- Qualification of NDE personnel
- Preparation of design calculations

Participation in:

- Pre-audits
- ASME Joint Reviews and surveys

OTHER SERVICES FOR ASME

- Technical seminars and workshops (public and in-house, tailor-made)
- Inspection of parts, components and assembly
- Audits of suppliers
- Design guidance
- Solutions for compliance with ASME BPVC
- Solutions for the use of ASME BPVC to fulfill local regulations

TÜV Rheinland is accepted by the National Board of Boiler and Pressure Vessel Inspectors (NBBPVI) as ASME AIA by virtue of NB-360 and accredited in accordance with NB-369 to perform in-service or repair/alteration inspection activities pursuant to the National Board Inspection Code (NBIC).

OUR ASME ACCREDITATION SCOPE

- Section I – Power Boilers
- Section III (Div. 1 & 3) – Nuclear Facility Components
- Section IV – Heating Boilers
- Section VIII (Div. 1, 2 & 3) – Pressure Vessels
- Section X – Fiber-Reinforced Plastic Pressure Vessels
- Section XI – Inservice Inspection of Nuclear Power Plant Components
- Section XII – Transport Tanks

YOUR BENEFITS

- Customer-oriented service in ASME projects of any kind
- Reliable AIA for inspection services during construction and in-service of pressure vessels, boilers, transport tanks and nuclear components
- Competent ASME experts
- First-hand information through participation in ASME committee work
- We can represent you introducing and promoting your inquiries and needs
- Quick and correct solutions to your problems
- Quick and correct solutions in relation to Market Access Service (MAS)

TÜV Rheinland will provide you with comprehensive technical knowledge for conformity assessment of your boilers and pressure vessel equipment.

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