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## Standards & Certification

**ASME - Setting the Standard for over 125 years**

ASME offers a continuously evolving portfolio of standards across a wide range of topics, including pressure technology, power plants, elevators, construction equipment, piping, nuclear components, and many more. [Learn More](#)

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## URL

<https://www.asme.org/topics/standardscertification>

## Subject

Science— America—Standards;  
Mechanical Engineering—America--Standards

## Accessibility

On subscription base

## Language

English

## Publisher

American Society of Mechanical Engineers (ASME)

## Brief History

The **American Society of Mechanical Engineers (ASME)** is a professional association that promotes the art, science, and practice of multidisciplinary engineering and allied sciences around the globe via continuing education, training and professional development, codes and standards, research, conferences and publications, government relations, and other forms of outreach. ASME was founded in 1880 by Alexander Lyman Holley, Henry Rossiter Worthington, John Edison Sweet and Matthias N. ASME is one of the oldest standards-developing organizations in America.

### ***Scope and Coverage***

ASME is one of the oldest standards-developing organizations in America. It produces approximately 600 codes and standards covering many technical areas, such as fasteners, plumbing fixtures, elevators, pipelines, and power plant systems and components. ASME's standards are developed by committees of subject matter experts using an open, consensus-based process. Many ASME standards are cited by government agencies as tools to meet their regulatory objectives. ASME standards are therefore voluntary, unless the standards have been incorporated into a legally binding business contract or incorporated into regulations enforced by an authority having jurisdiction, such as a federal, state, or local government agency. ASME's standards are used in more than 100 countries and have been translated into numerous languages.

ASME has five key offices in the United States, including its headquarters operation in New York, N.Y., and three international offices in Beijing, China; Brussels, Belgium, and New Delhi, India. ASME has two institutes and 32 technical divisions within its organizational structure. Volunteer activity is organized into four sectors: Technical Events and Content, Public Affairs and Outreach, Standards and Certification, and Student and Early Career Development.

### ***Kind of Information***

ASME is the leading international developer of codes and standards associated with the art, science, and practice of mechanical engineering. Starting with the first issuance of its legendary Boiler & Pressure Vessel Code in 1914, ASME's codes and standards have grown to nearly 600 offerings currently in print. These standards provides information on breadth of topics, including pressure technology, nuclear plants, elevators / escalators, construction, engineering design, standardization, and performance testing. ASME develops voluntary standards that enhance public safety, health, and quality of life as well as facilitate innovation, trade, and competitiveness. ASME plays an active role in protecting the public through the development of Safety Codes and Standards, which are managed by the Board on Safety Codes and Standards (BSCS). The BSCS oversees the standards like A13 Scheme for the Identification of Piping Systems, A17 Elevators and Escalators, A18 Platform Lifts and Stairway Chairlifts, A90 Safety Standards for Manlifts, A120 Safety Requirements for Powered Platforms for Building Maintenance, B20 Safety Standards for Conveyors and Related Equipment, B30 Safety Standards Committee for Cableways, Cranes, Derricks, Hoists, Hooks, Jacks, and Slings, BTH Standards Committee, Design of Below-the-Hook Lifting Devices, CSDAFB Controls and Safety Devices for Automatically Fired Boilers, Portable Automotive Lifting Devices Committee, Rail Transit Vehicle Standards Committee, P30 Planning for the Use of Cranes, Derricks, Hoists, Hooks, Jacks, and Slings.

### ***Special Features***

- ASME Fellow is a Membership Grade of Distinction conferred by The ASME Committee of Past Presidents to an ASME member with significant publications or innovations and distinguished scientific and engineering background. Over 3,000 members have attained the grade of Fellow. The ASME Fellow membership grade is the highest elected grade in ASME.
- ASME holds a variety of competitions every year for engineering students

from around the world. Some of them are Human Powered Vehicle Challenge (HPVC), Student Design Competition (SDC), Innovative Design Simulation Challenge (IDSC), Innovative Additive Manufacturing 3D Challenge (IAM3D), Old Guard Competitions, Innovation Showcase (IShow), Student Design Expositions.

- The ASME Medal, created in 1920, is the highest award of ASME (founded as the American Society of Mechanical Engineers) for eminently distinguished engineering achievement. ASME gives out a number other awards yearly, including the Edwin F. Church Medal, the Holley medal, and the Soichiro Honda medal.
- ASME is an accredited Standards Developing Organization that meets the due process requirements of the American National Standards Institute (ANSI). Standards that are developed under an accredited program may be designated as American National Standards.
- ASME committees provide input to ISO Committees through the U.S. technical advisory groups (TAGs). All United States participation is implemented by the selection/establishment of US TAGs for ISO technical committees or subcommittees. ASME administers approximately 40 U.S. TAGs.

***Arrangement Pattern***

In this website, ASME arranges all the standards and codes under the headings like “Energy Standards, Certification & Training Programs”, “Safety Codes and Standards”, “Performance Test Codes”. And then they are arranged numerically by their numbers.

***Remarks***

Forney in response to numerous steam boiler pressure vessel failures. Known for setting codes and standards for mechanical devices, ASME conducts one of the world's largest technical publishing operations, holds numerous technical conferences and hundreds of professional development courses each year, and sponsors numerous outreach and educational programs.

***Comparable Tools***

- Manufacturers Standardization Society (MSS) Standards (<https://msshq.org/Store/index.cfm>)
- American Society for Testing Materials (ASTM) International Standards (<https://www.astm.org/>)
- Every Spec (<http://everyspec.com/>)

***Date of Access***

March 7, 2017