

# ASME CODES, STANDARDS, AND DESIGNATORS

## ASME BOILER AND PRESSURE VESSEL CODES

The following list includes some of the pertinent codes and standards available from ASME.

Section I.....	Rules for Construction of Power Boilers
Section II.....	Materials
	Part A. Ferrous Material Specifications
	Part B. Nonferrous Material Specifications
	Part C. Specifications for Welding, Rods, Electrodes and Filler Metals
	Part D. Properties
Section III.....	Rules for Construction of Nuclear Facility Components
	Subsection NCA. General Requirements for Divisions 1 and 2
	Division 1
	Subsection NB. Class 1 Components
	Subsection NC. Class 2 Components
	Subsection ND. Class 3 Components
	Subsection NE. Class MC Components
	Subsection NF. Supports
	Subsection NG. Core Support Structures
	Subsection NH. Class 1 Components in Elevated Temperature Service
	Appendices
	Division 2. Code for Concrete Containments
	Division 3. Containment Systems for Storage and Transport Packaging of Spent Nuclear Fuel and High Level Radioactive Materials and Waste
Section IV.....	Rules for Construction of Heating Boilers
Section V.....	Nondestructive Examination
Section VI.....	Recommended Rules for the Care and Operation of Heating Boilers
Section VII.....	Recommended Guidelines for the Care of Power Boilers
Section VIII.....	Rules for Construction of Pressure Vessels
	Division 1. Pressure Vessels
	Division 2. Alternative Rules for Pressure Vessels
	Division 3. Alternative Rules for Construction of High-Pressure Vessels
Section IX.....	Welding and Brazing Qualifications
Section X.....	Fiber-Reinforced Plastic Pressure Vessels
Section XI.....	Rules for Inservice Inspection of Nuclear Power Plant Components
Section XII.....	Rules for Construction and Continued Service of Transport Tanks
Code Cases.....	Boilers and Pressure Vessels
Code Cases.....	Nuclear Components

## ASME STANDARDS

CSD-1.....	Controls and Safety Devices for Automatically-fired Boilers
B1.1.....	Unified Inch Screw Threads (UN and UNR Thread Form)
B1.20.1.....	Pipe Threads, General Purpose (Inch)
B16.1.....	Cast-iron Pipe Flanges and Flanged Fittings
B16.3.....	Malleable Iron Threaded Fittings, Classes 150 and 300
B16.4.....	Gray Iron Threaded Fittings, Class 125 and 250
B16.5.....	Pipe Flanges and Flanged Fittings
B16.9.....	Factory-made Wrought Steel Buttwelding Fittings
B16.11.....	Forged Fittings, Socket-Welding and Threaded
B16.15.....	Cast-bronze Threaded Fittings, Classes 125 and 250
B16.20.....	Ring-joint Gaskets and Grooves for Steel Pipe Flanges
B16.24.....	Cast Copper Alloy Pipe Flanges and Flanged Fittings
B16.25.....	Buttwelding Ends
B16.28.....	Wrought Steel Buttwelding Short Radius Elbows and Returns
B16.34.....	Valves — Flanged, Threaded and Welding End
B16.42.....	Ductile Iron Pipe Flanges and Flanged Fittings, Classes 150 and 300
B16.47.....	Large Diameter Steel Flanges, NPS 26 Through NPS 60
B18.2.2.....	Square and Hex Nuts (Inch Series)
B31.1.....	Power Piping
B31.2.....	Fuel Gas Piping
B31.3.....	Process Piping

**ASME STANDARDS *continued* . . .**

- B31.4..... Pipeline Transportation Systems for Liquid Hydrocarbons and Other Liquids
- B31.5..... Refrigeration Piping and Heat Transfer Components
- B31.8..... Gas Transmission and Distribution Piping
- B31.9..... Building Services Piping
- B31.11 ..... Slurry Transportation Piping
- B36.10M..... Welded and Seamless Wrought Steel Pipe
- QAI-1 ..... Qualifications for Authorized Inspection
- PVHO-1 ..... Safety Standard for Pressure Vessels for Human Occupancy

**ASME PERFORMANCE TEST CODE**

- PTC 25..... Pressure Relief Devices

**ASNT STANDARDS**

- ACCP ..... Central Certification Program
- CP-189 ..... Standard for Qualification and Certification of Nondestructive Testing Personnel
- SNT-TC-1A ..... Recommended Practice for Personnel Qualification and Certification in Nondestructive Testing

**ASTM STANDARDS**

- A 126..... Standard Specification for Gray Iron Castings for Valves, Flanges and Pipe Fittings
- B 139 ..... Standard Specification for Phosphor-Bronze Rod, Bar and Shapes
- D 56..... Standard Test Methods for Flash Point by Tag Closed Tester
- D 93..... Standard Test Methods for Flash Point by Pensky-Martens Closed Tester
- E 8 ..... Standard Test Methods of Tension Testing of Metallic Materials
- E 83 ..... Methods of Verification and Classification of Extensometers
- E 125..... Reference Photographs for Magnetic Particle Indication on Ferrous Castings
- E 140..... Hardness Conversion Tables for Metals
- E 186..... Standard Reference Radiographs for Heavy-walled (2 to 4-1/2 inch) Steel Castings
- E 208..... Method of Conducting Drop Weight Test to Determine Nil Ductility Transition Temperature of Ferritic Steel
- E 280..... Standard Reference Radiographs for Heavy-walled (4-1/2 to 12-inch) Steel Castings
- E 446..... Standard Reference Radiographs for Steel Castings up to 2 Inches in Thickness

**ASME DESIGNATORS**

ASME Code designators and the associated sections of the ASME *Boiler and Pressure Vessel Code* are listed for user's convenience:

- Section I..... A, E, M, PP, S, V
- Section II..... None
- Section III..... N, NA, NPT, NV
- Section IV ..... H, HLW, HV
- Section V ..... None
- Section VI..... None
- Section VII..... None
- Section VIII..... Division 1: U, UM, UV  
Division 2: U2, UV  
Division 3: U3, UV3
- Section IX..... None
- Section X..... RP
- Section XI..... None
- Section XII..... T, TD, TV
- B31.1..... None
- PTC 25-1994 ..... None