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 I
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 Butt-welding 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. Butt-welding Ends
B16.28. Wrought Steel Butt-welding 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
B18.22. 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

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