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 NCD. Class 2 and 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 Reactor Vessels and Containments
  Division 3. Containment Systems for Transportation and Storage of Spent Nuclear Fuel and High Level Radioactive Material
  Division 5. High Temperature Reactors
Section IV................ Rules for Construction of Heating Boilers
Section V.................. Nondestructive Examination
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.............. Qualifications for Welding and Brazing, and Fusing Procedures; Welders; Brazers; and Welding, Brazing, and Fusing Operators
Section X............... Fiber-Reinforced Plastic Pressure Vessels
Section XI.............. Rules for Inservice Inspection of Nuclear Power Plant Components
  Division 1. Rules for Inspection and Testing of Components of Light-Water Cooled Plants
  Division 2. Requirements for Reliability and Integrity Management (RIM) Programs for Nuclear Power Plants
Section XII............. Rules for Construction and Continued Service of Transport Tanks
Section XIII........... Rules for Overpressure Protection
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 In. Screw Threads (UN, UNR, and UNJ Thread Forms)
B1.20.1.................. Pipe Threads, General Purpose (In.)
B16.1.................... Gray Iron Pipe Flanges and Flanged Fittings, Classes 25, 125, and 250
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 Buttwelding Fittings
B16.11.................. Forged Fittings, Socket-Welding and Threaded
B16.15.................. Cast Copper Threaded Fittings, Classes 125 and 250
B16.20.................. Metallic Gaskets for Pipe Flanges
B16.24.................. Cast Copper Alloy Pipe Flanges, Flanged Fittings, and Valves, Classes 150, 300, 600, 900 and 1500
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
ASME STANDARDS continued . . .

B18.2.2 ....................... Nuts for General Applications: Machine Screw Nuts, and Hex, Square, Hex Flange, and Coupling Nuts (In. Series)
B31.1 ......................... Power Piping
B31.2 ......................... Fuel Gas Piping
B31.3 ......................... Process Piping
B31.4 ......................... Pipeline Transportation Systems for Liquids and Slurries
B31.5 ......................... Refrigeration Piping and Heat Transfer Components
B31.8 ......................... Gas Transmission and Distribution Piping Systems
B31.9 ......................... Building Services Piping
B31.11 ....................... Slurry Transportation Piping Systems
B36.10 ....................... Welded and Seamless Wrought Steel Pipe
QAI-1 ....................... Qualifications for Authorized Inspection
PVHO-1 .................... Safety Standard for Pressure Vessels for Human Occupancy
PVHO-2 .................... Safety Standard for Pressure Vessels for Human Occupancy: In-service Guidelines

ASME PERFORMANCE TEST CODE

PTC 25 ...................... Pressure Relief Devices

ASNT STANDARDS

ACCP ....................... Central Certification Program
CP-I-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 Cup Tester
D 93 ....................... Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester
E 8 ....................... Standard Test Methods of Tension Testing of Metallic Materials
E 83 ....................... Methods of Verification and Classification of Extensometer Systems
E 125 ....................... Reference Photographs for Magnetic Particle Indication on Ferrous Castings
E 140 ....................... Hardness Conversion Tables for Metals Relationship Among Hardness - Brinell, Vickers, Rockwell, Supericial, Knoop, Scleroscope and Leeb
E 186 ....................... Standard Reference Radiographs for Heavy-walled (2 to 4-1/2 in.) Steel Castings
E 208 ....................... Standard Method for 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-in.) Steel Castings
E 446 ....................... Standard Reference Radiographs for Steel Castings up to 2 In. 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, UD, UV
Division 2: U2, UD, UV
Division 3: U3, UD, UD3, UV, UV3
Section IX ............... None
Section X ................. RP
Section XI ............... None
Section XII ............... T, TD, TV
Section XIII .......... None
B31.1 ....................... None