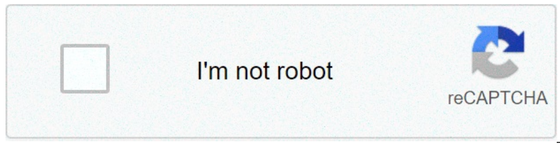

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2017 asme boiler

Also known as Data Search, find materials and properties information from technical references. Provides requirements for all methods of construction of power, electric, and miniature boiler; high temperature water boilers, heat recovery steam generators, and certain fired pressure vessels to be used in stationary service; and power boilers used in locomotive, portable, and traction service. Rules pertaining to use of the single ASME certification mark with the V, A, M, PP, S and E designators also included. BPVC Section II - Materials Part A covers Ferrous Material; Part B covers Nonferrous Material; Part C covers Welding Rods, Electrodes, and Filler Metals; and Part D covers Material Properties in both Customary and Metric units of measure. Together, these four parts of section II comprise a “service code” to the other BPVC Sections, providing material specifications adequate for safety in the field of pressure equipment. These specifications contain requirements for chemical and mechanical properties, heat treatment, manufacture, heat and product analysis, and methods of testing. Part A and Part B specifications are designated by SA or SB numbers, respectively, and are identical with or similar to those specifications published by ASTM and other recognized national or international organizations. Part C specifications are designated by SFA numbers and are derived from AWS specifications. BPVC Section III – Rules for Construction of Nuclear Facility Components Provides general requirements which address the material, design, fabrication, examination, testing and overpressure protection of the items specified within each respective Subsection, assuring their structural integrity. Division 1, Subsection NCA – Subsection NCA, which is referenced by and is an integral part of Division 1, Subsections NB through NG, and Division 2 of Section III, covers quality assurance requirements, ASME product-certification marks, and authorized inspection for Class I, W, #, MC, CS, and CC construction. Division 1, Subsections NB, NF, APP – Subsection NB addresses items which are intended to conform to the requirements for Class 1 construction. Subsection NF addresses supports which are intended to conform to the requirements for Classes 1, 2, 3, and MC construction. Subsection APP contains appendices, both mandatory and non-mandatory for Section III, Division 1 (Subsections NCA through NG), Division 2 and Division 3, including a listing of design and design analysis methods and information, plus Data Report Forms. These appendices are referenced by, and are an integral part of Subsections NCA through NC, Division 2 and Division 3. Division 1, Subsections NC, ND – Subsection NC addresses items which are intended to conform to the requirements for Class 2 construction. Subsection ND addresses items which are intended to conform to the requirements for Class 3 construction Other Subsections and Divisions – Subsection NE addresses items which are intended to conform to the requirements for Class MC construction. Subsection NF addresses the supports which are intended to conform to the requirements for Classes 1, 2, 3 and MC construction. Subsection NG addresses structures which are designed to provide direct support or restraint of the core (fuel & blanket assemblies) within the reactor pressure vessel. Subsection NH addresses Class 1 components, parts, and appurtenances which are expected to function even when metal temperatures exceed those covered by the rules and stress limits of Subsection NB and Tables 2A, 2B, and 4 of Section II, Part D, Subpart 1. Division 2 – Addresses concrete containment structures, pre-stressed or reinforced. These requirements are applicable only to those components that are designed to provide a pressure retaining or containing barrier. Division 3 – Addresses the design and construction of the containment system of a nuclear spent fuel or high level radioactive waste transport packaging. Division 5 – Provides construction rules for high-temperature reactors, including both high-temperature, gas-cooled reactors (HTGRs) and liquid-metal reactors (LMRs). BPVC Section IV – Heating Boilers Provides requirements for design, fabrication, installation and inspection of steam heating, hot water heating, hot water supply boilers, and potable water heaters intended for low pressure service that are directly fired by oil, gas, electricity, coal or other solid or liquid fuels. Rules pertaining to use of the single ASME certification mark with the H, HV, HLW designators are also included. BPVC Section V - Nondestructive Examination Is another “service code” – containing requirements and methods for nondestructive examination which are referenced and required by other BPVC Sections. It also includes manufacturer’s examination responsibilities, duties of authorized inspectors and requirements for qualification of personnel, inspection and examination. Examination methods are intended to detect surface and internal discontinuities in materials, welds, and fabricated parts and components. A glossary of related terms in included. BPVC Section VI – Care and Operation of Heating Boilers Covers operation guidelines applicable to steel and cast-iron boilers limited to the operating ranges of Section IV Heating Boilers. Section VI includes guidelines for associated controls and automatic fuel-burning equipment. Also included is a glossary of terms commonly associated with boilers, controls, and fuel burning equipment. BPVC Section VII – Care of Power Boilers Provides guidelines to assist those directly responsible for operating, maintaining, and inspecting power boilers. These boilers include stationary, portable, and traction type boilers, but not locomotive and high-temperature water boilers, nuclear power-plant boilers (see Section XI), heating boilers (see Section VI), pressure vessels, or marine boilers. Guidelines are also provided for operation of auxiliary equipment and appliances that affect the safe and reliable operation of power boilers. BPVC Section VIII – Pressure Vessels Division 1 provides requirements applicable to the design, fabrication, inspection, testing, and certification of pressure vessels operating at either internal or external pressures exceeding 15 psig. Such vessels may be fired or unfired. This pressure may be obtained from an external source or by the application of heat from a direct or indirect source, or any combination thereof. Specific requirements apply to several classes of material used in pressure vessel construction, and also to fabrication methods such as welding, forging and brazing. Division 1 – Contains mandatory and non-mandatory appendices detailing supplementary design criteria, nondestructive examination and inspection acceptance standards. Rules pertaining to the use of the single ASME certification mark with the U, UM, and UV designators are included. Division 2 – Requirements on materials, design, and nondestructive examination are more rigorous than in Division 1; however, higher design stress intensify values are permitted. These rules may also apply to human occupancy pressure vessels typically in the diving industry. Rules pertaining to the use of the single ASME certification mark with the U2 and UV designators are included. Division 3 – Requirements are applicable to pressure vessels operating at either internal or external pressures generally above 10,000 psi. It does not establish maximum pressure limits for either Section VIII, Division 1 or 2, nor minimum pressure limits for this Division. Rules pertaining to the use of a single ASME certification mark with the U3 and UV3 designator are also included. BPVC Section IX - Welding and Brazing Qualifications Is another “service code” – containing rules relating to the qualification of welding and brazing procedures as required by other BPVC Sections. It also covers rules relating to the qualification and requalification of welders, brazers, and welding and brazing operators in order that they may perform welding or brazing in component manufacturer. Welding and brazing data cover essential and nonessential variables specific to the welding or brazing process used. BPVC Section X - Fiber-Reinforced Plastic Pressure Vessels Provides requirements for construction of a fiber-reinforced pressure vessel (FRP) in conformance with a manufacturer’s design report. It includes production, processing, fabrication, inspection and testing methods required for the vessel. Section X includes three Classes of vessel design: Class I and Class III – qualification through the destructive test of a prototype; and Class II – mandatory design rules and acceptance testing by nondestructive methods. These vessels are not permitted to store, handle or process lethal fluids. Vessel fabrication is limited to the following processes: bag-molding, centrifugal casting and filament-winding and contact molding. Rules pertaining to the use of the single ASME certification mark with the RP designator are also included. BPVC Section XI – Rules for In-service Inspection of Nuclear Power Plant Components Contains Divisions 1 and 3, in one volume, and provides rules for the examination, in-service testing and inspection, and repair and replacement of components and systems in light water cooled and liquid metal cooled nuclear power plants. Application of Section XI begins when the requirements of the “construction code” (e.g., Section III) have been satisfied. Section XI constitutes requirements to maintain the nuclear power plant while in operation and to return the plant to service, following plant outages, and repair or replacement activities. These rules require a mandatory program of scheduled examinations, testing, and inspections to evidence adequate safety. The method of nondestructive examination to be used and flaw size characterization are also contained within this section. BPVC Section XII – Transport Tanks Provides requirements for construction and continued service of pressure vessels for the transportation of dangerous goods via highway, rail, air, or water at pressures from full vacuum to 3,000 psig and volumes greater than 120 gallons. “Construction” is an all-inclusive term comprising materials, design, fabrication, examination, inspection, testing, certification, and over-pressure protection. “Continued service” refers to inspection, testing, repair, alteration, and recertification of a transport tank that has been in service. Rules pertaining to the use of the single ASME certification mark with the T, TD, and TV designators are included.

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