



Standard Specification for Angle Style, Pressure Relief Valves for Steam, Gas, and Liquid Services¹

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1. Scope

1.1 This specification covers spring-loaded, angle style, pressure relief valves for steam, gas, and liquid system applications (excluding boiler safety and hydraulic system relief valves).

2. Referenced Documents

2.1 *ASTM Standards:*²

- A 105/A 105M Specification for Carbon Steel Forgings for Piping Applications
- A 125 Specification for Steel Springs, Helical, Heat-Treated
- A 182 Specification for Forged or Rolled Alloy-Steel Pipe Flanges, Forged Fittings, and Valves and Parts for High-Temperature Service
- A 193 Specification for Alloy-Steel and Stainless Steel Bolting Materials for High-Temperature Service
- A 194/A 194M Specification for Carbon and Alloy Steel Nuts for Bolts for High Pressure or High Temperature Service, or Both
- A 216/A 216M Specification for Steel Castings, Carbon, Suitable for Fusion Welding, for High-Temperature Service
- A 217/A 217M Specification for Steel Castings, Martensitic Stainless and Alloy, for Pressure-Containing Parts, Suitable for High-Temperature Service
- A 227/A 227M Specification for Steel Wire, Cold-Drawn for Mechanical Springs
- A 229/A 229M Specification for Steel Wire, Oil-Tempered for Mechanical Springs
- A 231/A 231M Specification for Chromium-Vanadium Alloy Steel Spring Wire
- A 276 Specification for Stainless Steel Bars and Shapes
- A 313/A 313M Specification for Stainless Steel Spring Wire

- A 351/A 351M Specification for Castings, Austenitic, Austenitic-Ferritic (Duplex), for Pressure-Containing Parts
 - A 479/A 479M Specification for Stainless Steel Bars and Shapes for Use in Boilers and Other Pressure Vessels
 - A 494/A 494M Specification for Castings, Nickel and Nickel Alloy
 - A 689 Specification for Carbon and Alloy Steel Bars for Springs
 - B 21/B 21M Specification for Naval Brass Rod, Bar, and Shapes
 - B 61 Specification for Steam or Valve Bronze Castings
 - B 62 Specification for Composition Bronze or Ounce Metal Castings
 - B 148 Specification for Aluminum-Bronze Sand Castings
 - B 164 Specification for Nickel-Copper Alloy Rod, Bar, and Wire
 - B 637 Specification for Precipitation-Hardening Nickel Alloy Bars, Forgings, and Forging Stock for High-Temperature Service
 - D 5204 Classification System for Polyamide-Imide (PAI) Molding and Extrusion Materials
 - F 467 Specification for Nonferrous Nuts for General Use
 - F 468 Specification for Nonferrous Bolts, Hex Cap Screws, and Studs for General Use
- #### 2.2 *ANSI Standards:*³
- ANSI B.1 Unified Screw Threads
 - ANSI B16.5 Pipe Flanges and Flanged Fittings
 - ANSI B16.34 Valves—Flanged, Threaded, and Welding End
- #### 2.3 *ASME Standard:*⁴
- Boiler and Pressure Vessel Code
- #### 2.4 *API Standards:*⁵
- API Standard 526 Flanged Steel Safety-Relief Valves
 - API Standard RP 520, Part 1 Recommended Practice for the Design and Installation of Pressure-Relieving Systems in Refineries

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036.

⁴ Available from American Society of Mechanical Engineers (ASME), ASME International Headquarters, Three Park Ave., New York, NY 10016-5990.

⁵ Available from The American Petroleum Institute (API), 1220 L. St., NW, Washington, DC 20005.