



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

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ε¹ NOTE—Corrected 6.2 editorially in September 2016.

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).

1.2 The values stated in inch-pound units are to be regarded as standard. No other units of measurement are included in this standard.

2. Referenced Documents

2.1 ASTM Standards:²

- A105/A105M Specification for Carbon Steel Forgings for Piping Applications
- A125 Specification for Steel Springs, Helical, Heat-Treated
- A182/A182M Specification for Forged or Rolled Alloy and Stainless Steel Pipe Flanges, Forged Fittings, and Valves and Parts for High-Temperature Service
- A193/A193M Specification for Alloy-Steel and Stainless Steel Bolting for High Temperature or High Pressure Service and Other Special Purpose Applications
- A194/A194M Specification for Carbon Steel, Alloy Steel, and Stainless Steel Nuts for Bolts for High Pressure or High Temperature Service, or Both
- A216/A216M Specification for Steel Castings, Carbon, Suitable for Fusion Welding, for High-Temperature Service
- A217/A217M Specification for Steel Castings, Martensitic Stainless and Alloy, for Pressure-Containing Parts, Suitable for High-Temperature Service
- A227/A227M Specification for Steel Wire, Cold-Drawn for Mechanical Springs

- A229/A229M Specification for Steel Wire, Quenched and Tempered for Mechanical Springs
- A231/A231M Specification for Chromium-Vanadium Alloy Steel Spring Wire
- A276 Specification for Stainless Steel Bars and Shapes
- A313/A313M Specification for Stainless Steel Spring Wire
- A351/A351M Specification for Castings, Austenitic, for Pressure-Containing Parts
- A479/A479M Specification for Stainless Steel Bars and Shapes for Use in Boilers and Other Pressure Vessels
- A494/A494M Specification for Castings, Nickel and Nickel Alloy
- A689 Specification for Carbon and Alloy Steel Bars for Springs
- B21/B21M Specification for Naval Brass Rod, Bar, and Shapes
- B61 Specification for Steam or Valve Bronze Castings
- B62 Specification for Composition Bronze or Ounce Metal Castings
- B148 Specification for Aluminum-Bronze Sand Castings
- B164 Specification for Nickel-Copper Alloy Rod, Bar, and Wire
- B637 Specification for Precipitation-Hardening and Cold Worked Nickel Alloy Bars, Forgings, and Forging Stock for Moderate or High Temperature Service
- D5204 Classification System for Polyamide-Imide (PAI) Molding and Extrusion Materials
- F467 Specification for Nonferrous Nuts for General Use
- F468 Specification for Nonferrous Bolts, Hex Cap Screws, Socket Head Cap Screws, and Studs for General Use

2.2 ANSI Standards:³

- ANSI B1.1 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

- ASME Boiler and Pressure Vessel Code

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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, <http://www.ansi.org>.

⁴ Available from American Society of Mechanical Engineers (ASME), ASME International Headquarters, Two Park Ave., New York, NY 10016-5990, <http://www.asme.org>.