



Designation: F 1508 – 96

An American National Standard

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

This standard is issued under the fixed designation F 1508; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

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:

- A 105 Specification for Forgings, Carbon Steel, for Piping Components²
- A 125 Specification for Steel Springs, Helical, Heat Treated³
- A 182 Specification for Forged or Rolled Alloy-Steel Pipe Flanges, Forged Fittings, and Valves and Parts for High-Temperature Service²
- A 193 Specification for Alloy-Steel and Stainless Steel Bolting Materials for High-Temperature Service²
- A 194 Specification for Carbon and Alloy Steel Nuts for Bolts for High-Pressure and High-Temperature Service²
- A 216/A216M Specification for Steel Castings, Carbon, Suitable for Fusion Welding for High-Temperature Service⁴
- A 217/A217M Specification for Steel Castings, Martensitic Stainless and Alloy, for Pressure-Containing Parts, Suitable for High-Temperature Service⁴
- A 227/A227M Specification for Steel Wire, Cold-Drawn for Mechanical Springs⁵
- A 229/A229M Specification for Steel Wire, Oil-Tempered for Mechanical Springs⁵
- A 231/A231M Specification for Chromium-Vanadium Alloy Steel Spring Wire⁵
- A 276 Specification for Stainless and Heat-Resisting Steel Bars and Shapes³
- A 313 Specification for Chromium-Nickel Stainless and Heat-Resisting Steel Spring Wire⁵

A 351/A351M Specification for Castings, Austenitic, Austenitic-Ferritic (Duplex), for Pressure-Containing Parts⁴

A 479/A479M Specification for Stainless and Heat-Resisting Steel Bars and Shapes for Use in Boilers and Other Pressure Vessels³

A 494/A494M Specification for Castings, Nickel and Nickel Alloy⁴

A 689 Specification for Carbon and Alloy Steel Bars for Springs³

B 21 Specification for Naval Brass Rod, Bar, and Shapes⁶

B 61 Specification for Steam or Valve Bronze Castings⁶

B 62 Specification for Composition Bronze or Ounce Metal Castings⁶

B 148 Specification for Aluminum Bronze Castings⁶

B 164 Specification for Nickel-Copper Alloy Rod, Bar, and Wire⁷

B 637 Specification for Precipitation Hardening Nickel-Alloy Bars, Forgings, and Forging Stock for High-Temperature Service⁷

D 5204 Specification for Polyamide-Imide (PAI) Molding and Extrusion Materials⁸

F 467 Specification for Nonferrous Nuts for General Use⁹

F 468 Specification for Nonferrous Bolts, Hex Cap Screws, and Studs for General Use⁹

2.2 ANSI Standards:¹⁰

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:¹¹

Boiler and Pressure Vessel Code

2.4 API Standards:¹²

⁶ Annual Book of ASTM Standards, Vol 02.01.

⁷ Annual Book of ASTM Standards, Vol 02.04.

⁸ Annual Book of ASTM Standards, Vol 08.03.

⁹ Annual Book of ASTM Standards, Vol 15.08.

¹⁰ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036.

¹¹ Available from American Society of Mechanical Engineers (ASME), ASME International Headquarters, Three Park Ave., New York, NY 10016-5990.

¹² Available from The American Petroleum Institute (API), 1220 L. St., NW, Washington, DC 20005.

¹ This specification is under the jurisdiction of ASTM Committee F25 on Ships and Marine Technology and is the direct responsibility of Subcommittee F25.11 on Machinery and Piping Systems.

Current edition approved Nov. 10, 1996. Published October 1997.

² Annual Book of ASTM Standards, Vol 01.01.

³ Annual Book of ASTM Standards, Vol 01.05.

⁴ Annual Book of ASTM Standards, Vol 01.02.

⁵ Annual Book of ASTM Standards, Vol 01.03.