

MSS

MSS SP-25	Standard Marking System for Valves, Fittings, Flanges and Unions
MSS SP-55	Quality Standard for Steel Castings for Valves, Flanges, Fittings and Other Piping Components (Visual Method for Evaluation of Surface Irregularities)
MSS SP-67	Butterfly Valves Valve design, manufacturing and testing requirements, including pressure and temperature ratings. Primary body materials: This standard allows many different body materials, from steel and nickel alloys, to bronze, to cast and ductile iron valves; consult standard for particulars
MSS SP-68	High Pressure Butterfly Valves with Offset Design Valve design, manufacturing and testing requirements, including pressure and temperature ratings. Primary body materials: This standard leans directly on ASME B16.34, consult standard for particulars.
MSS SP-70	Cast Iron Gate Valves, Flanged and Threaded ends Valve design, manufacturing and testing requirements, including pressure and temperature ratings. Primary body materials: ASTM A126 Cl B (Cast iron)
MSS SP-71	Gray Iron Swing Check Valves, Flanged and Threaded Ends Valve design, manufacturing and testing requirements, including pressure and temperature ratings. Primary body material: ASTM A126 Cl B (Cast iron)
MSS SP-80	Bronze Gate, Globe, Angle and Check Valves Valve design, manufacturing and testing requirements, including pressure and temperature ratings. Primary body materials by pressure class: ASTM B62 (Pressure Class 125, 150) ASTM B61 (Pressure Classes 200 and higher)
MSS SP-85	Gray Iron Globe and Angle Valves, Flanged and Threaded Ends Valve design, manufacturing and testing requirements, including pressure and temperature ratings. Primary body material: ASTM A126 Cl B (Cast iron)
MSS SP-110	Ball Valves, Threaded, Socket Welding, Solder Joint, Grooved and Flared Ends Valve design, manufacturing and testing requirements, including pressure and temperature ratings Primary body materials: This standard allows many different body materials, from steel and nickel alloys, to bronze, to cast and ductile iron valves; consult standard for particulars.

ASME

ASME B16.1	Cast Iron Pipe Flanges and Flanged Fittings Design and material requirements and pressure and temperature ratings for pressure classes 25, 125 and 250. Primary Materials: ASTM Spec A126 Classes A or B (Pressure class dependent)
ASME B16.5	Pipe Flanges and Flanged Fittings Design and material requirements and pressure and temperature ratings for flanges and flanged fittings for classes 150 through 2500, inclusive. Primary Materials: Similar to ASME B16.34 above, specific materials are listed in the standard.
ASME B16.10	Face-to Face and End-to-End Dimensions of Valves Establishes the end to end length (or center to face dimensions of angled valves) of weld end and flanged valves
ASME B16.11	Forged fittings, Socket Weld and Threaded Establishes the design requirements for classes 2000, 3000 and 6000 for threaded fittings, and classes 3000, 6000 and 9000 for socket welding type fittings.
ASME B16.24	Cast Copper Alloy Pipe Flanges and Flanged Fittings Design and material requirements and pressure and temperature ratings for flanges and flanged fittings for classes 150 through 2500, inclusive. Primary Materials: ASTM B61 and B62, ASTM B148 Alloy C95200.
ASME B16.25	Buttwelding Ends Establishes the detail requirements for buttwelding ends for valves in various pressure classes end configurations.
ASME B16.33	Manually Operated Metallic Gas Valves for Use in Gas Piping Systems up to 125 psi Valve design requirements for 1/2" through 2" for outdoor installation as primary shut off before the meter and regulator.
ASME B16.34	Valves - Flanged, Threaded and Welded End Valve design requirements, minimum wall thicknesses, allowable materials, and pressure and temperature ratings in standard and special class, all pressure classes from 150 to 4500. Primary Materials: This standard allows many different materials, from carbon steel through many nickel and other alloys, consult standard for particulars.
ASME B16.44	Manually Operated Metallic Gas Valves for Use in Aboveground Piping Systems up to 5 psi Valve design requirements for 1/4" through 4" for indoor installation as equipment shut off valves.
ASME B16.47	Large Diameter Steel Flanges Design and material requirements and pressure and temperature ratings for flanges and flanged fittings in sizes from 26 through 60 NPS, for various pressure classes.

Rev 12/22