

## [API - Valve Standards](#)

### **An overview of the American Petroleum Institute - API - valve standards**

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Valve standards from [API - the American Petroleum Institute](#):

- **API SPEC 6D**  
Specification for Pipeline Valves. API Specification 6D is an adoption of [ISO 14313: 1999](#), Petroleum and Natural Gas Industries-Pipeline Transportation Systems-Pipeline Valves. This International Standard specifies requirements and gives recommendations for the design, manufacturing, testing and documentation of ball, check, gate and plug valves for application in pipeline systems.
- **API 526**  
Flanged Steel Pressure Relief Valves. The standard is a purchase specification for flanged steel pressure relief valves. Basic requirements are given for direct spring-loaded pressure relief valves and pilot-operated pressure relief valves as follows: orifice designation and area; valve size and pressure rating, inlet and outlet; materials; pressure-temperature limits; and center-to-face dimensions, inlet and outlet.
- **API 527**  
Seat Tightness of Pressure Relief Valves R(2002). Describes methods of determining the seat tightness of metal- and soft-seated pressure relief valves, including those of conventional, bellows, and pilot-operated designs.
- **ANSI/API STD 594**  
Check Valves: Flanged, Lug, Wafer and Butt-welding. API Standard 594 covers design, material, face-to-face dimensions, pressure-temperature ratings, and examination, inspection, and test requirements for two types of check valves.
- **API 598**  
Valve Inspection and Testing. The standard covers inspection, supplementary examination, and pressure test requirements for both resilient-seated and metal-to-metal seated gate, globe, plug, ball, check, and butterfly valves. Pertains to inspection by the purchaser and to any supplementary examinations the purchaser may require at the valve manufacturer's plant.
- **ANSI/API 599**  
Metal Plug Valves - Flanged, Threaded and Welding Ends. A purchase specification that covers requirements for metal plug valves with flanged or butt-welding ends, and ductile iron plug valves with flanged ends, in sizes NPS 1 through NPS 24, which correspond to nominal pipe sizes in [ASME B36.10M](#). Valve bodies conforming to [ASME B16.34](#) may have flanged end and one butt-welding end. It also covers both lubricated and nonlubricated valves that have two-way coaxial ports, and includes requirements for valves fitted with internal body, plug, or port linings or applied hard facings on the body, body ports, plug, or plug port.
- **ANSI/API 600**  
Bolted Bonnet Steel Gate Valves for Petroleum and Natural Gas Industries - Modified National Adoption of ISO 10434:1998.
- **API 602**  
Compact Steel Gate Valves - Flanged, Threaded, Welding, and Extended-Body Ends. The standard covers threaded-end, socket-welding-end, butt-welding-end, and flanged-end compact carbon steel gate valves in sizes NPS4 and smaller.

- ANSI/API 603  
Corrosion-Resistant, Bolted Bonnet Gate Valves - Flanged and Butt-Welding Ends. The standard covers corrosion-resistant bolted bonnet gate valves with flanged or butt-weld ends in sizes NPS 1/2 through 24, corresponding to nominal pipe sizes in [ASME B36.10M](#), and Classes 150, 300, and 600, as specified in [ASME B16.34](#).
- ANSI/API 607  
Fire Test for Soft-Seated Quarter Turn Valves. The standard covers the requirements for testing and evaluating the performance of straightway, soft-seated quarter-turn valves when the valves are exposed to certain fire conditions defined in this standard. The procedures described in this standard apply to all classes and sizes of such valves that are made of materials listed in ASME B16.34.
- API 609  
Butterfly Valves: Double Flanged, Lug- and Wafer-Type. The standard covers design, materials, face-to-face dimensions, pressure-temperature ratings, and examination, inspection, and test requirements for gray iron, ductile iron, bronze, steel, nickel-base alloy, or special alloy butterfly valves that provide tight shutoff in the closed position and are suitable for flow regulation.
- API 6FA  
Specification for Fire Test for Valves. The standard covers the requirements for testing and evaluating the performance of API Spec 6A and Spec 6D valves when exposed to specifically defined fire conditions.
- API 6FC  
Fire Test for Valve with Automatic Backseats. The standard covers the requirements for testing and evaluating the performance of API Spec 6A and Spec 6D valves with automatic backseats when exposed to specifically defined fire conditions.
- API 6RS  
Referenced Standards for Committee 6, Standardization of Valves and Wellhead Equipment.
- API 11V6  
Design of Continuous Flow Gas Lift Installations Using Injection Pressure Operated Valves. The standard sets guidelines for continuous flow gas lift installation designs using injection pressure operated valves.
- ANSI/API RP 11V7  
Recommended Practice for Repair, Testing, and Setting Gas Lift Valves. The standard applies to repair, testing, and setting gas lift valves and reverse flow (check) valves.
- API 520-1  
Sizing, Selection, and Installation of Pressure-Relieving Devices in Refineries: Part I - Sizing and Selection. The recommended practice applies to the sizing and selection of pressure relief devices used in refineries and related industries for equipment that has a maximum allowable working pressure of 15 psig (1.03 bar g or 103 kPa g) or greater.
- API 520-2  
Recommended Practice 520: Sizing, Selection, and Installation of Pressure-Relieving Devices in Refineries-Part II, Installation. The recommended practice covers methods of installation for pressure-relief devices for equipment that has a maximum allowable working pressure of 15 psig (1.03 bar g or 103 kPa g) or greater. It covers gas, vapor, steam, two-phase and incompressible fluid service.
- ANSI/API 574  
Inspection Practices for Piping System Components. The standard covers the inspection of piping, tubing, valves (other than control valves) and fittings used in petroleum refineries.

- ANSI/API 576  
Inspection of Pressure Relieving Devices. The recommended practice describes the inspection and repair practices for automatic pressure-relieving devices commonly used in the oil and petrochemical industries.
- ANSI/API 608  
Metal Ball Valves - Flanged and Butt-Welding Ends. The standard covers Class 150 and Class 300 metal ball valves that have either butt-welding or flanged ends and are for use in on-off service.

## **ASTM - Valve Standards**

### **An overview of ASTM International - American Society for Testing and Materials - valve standards**

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[ASTM International - American Society for Testing and Materials](#) - valve standards:

- ASTM A126-04  
Standard Specification for Gray Iron Castings for Valves, Flanges, and Pipe Fittings
- ASTM A182/A182M-04  
Standard Specification for Forged or Rolled Alloy-Steel Pipe Flanges, Forged Fittings, and Valves and Parts for High-Temperature Service
- ASTM A338  
Standard Specification for Malleable Iron Flanges, Pipe Fittings, and Valve Parts for Railroad, Marine, and Other Heavy Duty Service at Temperatures Up to 650°F (345°C)
- ASTM A522/A522M-01  
Standard Specification for Forged or Rolled 8 and 9% Nickel Alloy Steel Flanges, Fittings, Valves, and Parts for Low-Temperature Service
- ASTM A694/A694M-03  
Standard Specification for Carbon and Alloy Steel Forgings for Pipe Flanges, Fittings, Valves, and Parts for High-Pressure Transmission Service
- ASTM A961-04  
Standard Specification for Common Requirements for Steel Flanges, Forged Fittings, Valves, and Parts for Piping Applications
- ASTM A988/A988M  
Standard Specification for Hot Isostatically-Pressed Stainless Steel Flanges, Fittings, Valves, and Parts for High Temperature Service
- ASTM A989/A989M  
Standard Specification for Hot Isostatically-Pressed Alloy Steel Flanges, Fittings, Valves, and Parts for High Temperature Service
- ASTM B61-2  
Standard Specification for Steam or Valve Bronze Castings
- ASTM B763  
Standard Specification for Copper Alloy Sand Castings for Valve Application
- ASTM B834  
Standard Specification for Pressure Consolidated Powder Metallurgy Iron-Nickel-Chromium-Molybdenum (UNS N08367) and Nickel-Chromium-Molybdenum-Columbium (Nb) (UNS N06625) Alloy Pipe Flanges, Fittings, Valves, and Parts

- ASTM C1129  
Standard Practice for Estimation of Heat Savings by Adding Thermal Insulation to Bare Valves and Flanges
- ASTM F885  
Standard Specification for Envelope Dimensions for Bronze Globe Valves NPS 1/4 to 2
- ASTM F992  
Standard Specification for Valve Label Plates
- ASTM F993  
Standard Specification for Valve Locking Devices
- ASTM F1020  
Standard Specification for Line-Blind Valves for Marine Applications
- ASTM F1030  
Standard Practice for Selection of Valve Operators
- ASTM F1098  
Standard Specification for Envelope Dimensions for Butterfly Valves-NPS 2 to 24
- ASTM F1271  
Standard Specification for Spill Valves for Use in Marine Tank Liquid Overpressure Protections Applications
- ASTM F1370  
Standard Specification for Pressure-Reducing Valves for Water Systems, Shipboard
- ASTM F1394  
Standard Test Method for Determination of Particle Contribution from Gas Distribution System Valves
- ASTM F1565  
Standard Specification for Pressure-Reducing Valves for Steam Service
- ASTM F1792  
Standard Specification for Special Requirements for Valves Used in Gaseous Oxygen Service
- ASTM F1793  
Standard Specification for Automatic Shut-Off Valves (Also Known as Excess Flow Valves, EFV) for Air Or Nitrogen Service
- ASTM F1794  
Standard Specification for Hand-Operated, Globe-Style Valves for Gas (Except Oxygen Gas), and Hydraulic Systems
- ASTM F1795  
Standard Specification for Pressure-Reducing Valves for Air or Nitrogen Systems
- ASTM F1802  
Standard Test Method for Performance Testing of Excess Flow Valves
- ASTM F1970  
Standard Specification for Special Engineered Fittings, Appurtenances or Valves for use in Poly (Vinyl Chloride) (PVC) or Chlorinated Poly (Vinyl Chloride) (CPVC) Systems
- ASTM F1985  
Standard Specification for Pneumatic-Operated, Globe-Style, Control Valves
- ASTM F2138  
Standard Specification for Excess Flow Valves for Natural Gas Service
- ASTM F2215  
Standard Specification for Balls, Bearings, Ferrous and Nonferrous for Use in Bearings, Valves, and Bearing Applications
- ASTM F2324  
Standard Test Method for Prerinse Spray Valves

## [ASME - Valve Standards](#)

### **An overview of the American Society of Mechanical Engineers - ASME - valve standards**

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Common valve standards from [American Society of Mechanical Engineers - ASME](#):

- ASME A105/105M  
Standard Specification for Carbon Steel Forgings for piping applications
- ASME A181/181M  
Standard Specification for Carbon Steel Forgings for General purpose piping
- ASME A182/182M  
Standard Specification for forged or rolled alloy-steel pipe flanges, forged fittings and valves and parts for high-temperature service
- ASME A727/727M  
Standard specification for carbon steel forgings for piping components with inherent notch toughness
- ASME A961  
Standard Specification for Common Requirements for Steel Flanges, Forged Fittings, valves, and Parts for Piping Applications
- ASME B16.10  
Face to Face and End-to-End Dimensions of Valves
- ASME B16.34  
Valves - Flanged, Threaded, and Welding End
- ASME B462  
Standard Specification for Forged or Rolled UNS N08020, UNS N08024, UNS N08026, UNS N08367, and UNS R20033 Alloy Pipe Flanges, Forged Fittings, and Valves and Parts for Corrosive High-Temperature Service
- ASME B834  
Standard Specification for Pressure Consolidated Powder Metallurgy Iron-Nickel-Chromium-Molybdenum (UNS N08367) and Nickel-Chromium Molybdenum Columbium (Nb) (UNS N06625) Alloy Pipe Flanges, Fittings, Valves, and Parts
- ASME D5500  
Standard Test Method for Vehicle Evaluation of Unleaded Automotive Spark-ignition Engine Fuel for Intake Valve Deposit Formation
- ASME F885  
Standard Specification for Envelope Dimensions for Bronze Globe Valves NPS 1/4 to 2 EI-1996 R(1996)
- ASME F992  
Standard Specification for Valve Label Plates EI-1997 R(1997)
- ASME F993  
Standard Specification for Valve Locking Devices EI-1997 R(1997)
- ASME F1020  
Standard Specification for Line-Blind Valves for marine Applications EI-1996 RI'1996)
- ASME F1098  
Standard Specification for Envelope Dimensions for Butterfly Valves - NPS 2 to 24 EI-1993 R(1993)
- ASME F1271  
Standard Specification for Spill Valves for Use in Marine Tank Liquid Overpressure Protections Applications EI-1995 R (1995)

- ASME F1370  
Standard Specification for Pressure Reducing valves for Water Systems, Shipboard
- ASME F1508  
Standard Specification for Angle Style, Pressure Relief Valves for Steam, Gas, and Liquid Services
- ASME F1565  
Standard Specification for Pressure-Reducing Valves for Steam Service
- ASME F1792  
Standard Specification for Special Requirements for Valves Used in Gaseous Oxygen Service
- ASME F1793  
Standard Specification for Automatic Shut-Off Valves (Also Known as Excess Flow Valves, EFV) for Air or Nitrogen Service
- ASME F1794  
Standard Specification for Hand operated, Globe-Style Valves for Gas (Except Oxygen Gas), and Hydraulic Systems
- ASME F1795  
Standard specification for Pressure-Reducing Valves for Air or Nitrogen Systems
- ASME A230  
Standard specification for steel wire oil - tempered carbon valve spring quality
- ASME A232  
Standard specification for chromium - vanadium alloy steel valve spring quality
- ASME A350  
Standard specification for forged or rolled carbon and alloy steel flanges forged fittings and valves and parts for low - temperature service
- ASME A338  
Standard specification for ultrasonic examination of heavy steel forgings
- ASME A694  
Standard specification for forgings carbon and alloy steel for pipe flanges fittings valves and parts for high - pressure transmission service
- ASME A404  
Standards specification for forged or rolled alloy - steel pipe flanges forged fittings and valves and parts specially heat treated for high temperature service
- ASME A522  
Forged or rolled 8% and 9% nickel alloy steel flanges fittings valves and parts for low - temperature service

## **[BSi - British Standard Valves](#)**

### **An overview of BSi - British Standard institute valve standards**

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[BSi - British Standard institute](#) valve standards:

- BS 341-1:1991  
Transportable gas container valves. Specification for industrial valves for working pressures up to and including 300 bar (REPLACED by BS EN 14189:2003) , BS 341-

- 3:2002) , BS EN 849:1997) , BS EN ISO 13340:2001) , BS EN ISO 14246:2001) , BS 341-4:2004)
- BS 341-2:1963  
Transportable Gas Container Valves. Valves with Taper Stems for Use with Breathing Apparatus. (REPLACED by BS 341-1:1991) , BS EN 849:1997) , BS EN ISO 12209-1:2001) , BS EN ISO 12209-2:2001) , BS EN ISO 12209-3:2001)
  - BS 341-3:2002  
Transportable gas container valves. Valve outlet connections
  - BS 341-4:2004  
Transportable gas container valves. Pressure relief devices
  - BS 759-1:1984  
Valves, gauges and other safety fittings for application to boilers and to piping installations for and in connection with boilers. Specification for valves, mountings and fittings
  - BS 1123-1:1990  
Safety valves, gauges and fusible plugs for compressed air or inert gas installations - Code of practice for installation
  - BS 1212-1:1990  
Float operated valves - Specification for piston type float operated valves (copper alloy body) (excluding floats)
  - BS 1212-1:1990  
Float operated valves - Specification for piston type float operated valves (copper alloy body) (excluding floats)
  - BS 1212-3:1990  
Float operated valves - Specification for diaphragm type float operated valves (plastics bodied) for cold water services only (excluding floats)
  - BS 1212-4:1990  
Float operated valves - Specification for compact type float operated valves for WC flushing cisterns (including floats)
  - BS 1552:2004  
Specification for open bottomed taper plug valves for 1st, 2nd and 3rd family gases up to 200 mbar
  - BS 1570:1960  
Flanged and but weld-welding end steel plug valves for the petroleum industry (excluding well -head and flow-line valves)
  - BS1655:1976  
Flanged automatic control valves for the process control industry (face to face dimensions)
  - BS 1735:1966  
Flanged cast iron outside-screw-and-yoke wedge gate valve, class 125, sizes 1 1/3 in to 24 in, for the petroleum industry
  - BS 1868:1975  
Specification for steel check valves (flanged and butt-welding ends) for the petroleum, petrochemical and allied industries
  - BS 1873:1975  
Specification for steel globe and globe stop and check valves (flanged and butt-welding ends) for the petroleum, petrochemical and allied industries
  - BS1952:2000  
Copper alloy valves for general purposes
  - BS1953:2000  
Copper alloy check valves for general purposes

- BS1963:1990  
Specification for pressure operated relay valves for domestic, commercial and catering gas appliances
- BS 1968:1953  
Specification for floats for ball valves (copper)
- BS2060:2000  
Copper alloy screw down stop valves for general purposes
- BS2080:1995  
Specification for face to face, center to face, end to end and center to end dimensions of valves
- BS 2456:1990  
Specification for floats (plastics) for float operated valves for cold water services
- BS 2879:1980  
Specification for draining taps (screw-down pattern)
- BS2995:1966  
Cast and forged steel wedge gate, globe, check and plug valve, screwed and socket welding, sizes 2 in and smaller, for the petroleum industry
- BS 3457:1973  
Specification for materials for water tap and stop valve seat washers
- BS 3464:2000  
Cast iron wedge and double disk gate valves for general purposes
- BS3808:1964  
Cast and forged steel flanged, screwed and socket welding wedge gate valves (compact design), sizes 2 in and smaller, for the petroleum industry
- BS3948:1965  
Cast iron parallel slide valves for general purposes
- BS3952:1965  
Cast iron butterfly valves for general purposes
- BS3961:1965  
Cast iron screw down stop valves and stop and check valves for general purposes
- BS 4062-1:1982  
Valves for hydraulic fluid power systems - Methods for determining pressure differential/flow characteristics
- BS 4062-2:1990  
Valves for hydraulic fluid power systems - Methods for determining performance
- BS4090:1966  
Cast iron check valves for general purposes
- BS4133:1967  
Flanged steel parallel slide valves for general purposes
- BS4312:1968  
Flanged steel screw down stop valves and check valves for general purposes
- BS 4460:1969  
Steel ball valves for the petroleum industry
- BS 5041:1987  
Fire hydrant systems equipment - Specification for landing valves for wet risers
- BS 5146 P1:1984  
Steel valves for the petrochemical and allied industries
- BS 5150:1990 - Withdrawn, Superseded  
Specification for cast iron gate valves
- BS 5151:1982 - Withdrawn, Superseded  
Specification for cast iron gate (parallel slide) valves for general purposes



- BS 5152:1989 - Withdrawn, Superseded  
Cast iron globe & globe stop and check valves
- BS 5153:1989 - Withdrawn, Superseded  
Cast iron check valves for general purposes
- BS 5154:1991  
Specification for copper alloy globe, globe stop and check, check and gate valves
- BS 5155:1992  
Specification for butterfly valves
- BS 5156:1990  
Specification for diaphragm valves
- BS 5157:1989  
Specification for steel gate (parallel slide) valves
- BS 5158:1989  
Specification for cast iron plug valves
- BS 5159:1982  
Cast iron and carbon steel ball valves for general purposes
- BS 5160:1989  
Specification for steel globe valves, globe stop and check valves and lift type check valves
- BS 5163:1991  
Specification for predominantly key-operated cast iron gate valves for waterworks purposes
- BS 5351:1990  
Steel ball valves for petroleum, petrochemical and allied industries
- BS 5352:1990  
Steel wedge gate, globe and check valves 50mm and small
- BS 5353:1989  
Specification for steel plug valves
- BS 5417:1976  
Testing of general purpose industrial valves
- BS 5418:1984  
Specification for marking of general purpose industrial valves
- BS 5672:1991  
Specification for designation of the direction of rotation and of cylinders and valves in cylinder heads, and definition of right-hand and left-hand in-line engines and locations on engines for reciprocating internal combustion engines
- BS 5793-4:1987  
Industrial-process control valves - Specification for inspection and routine testing
- BS 5793-6:1986  
Industrial-process control valves - Specification for mounting details for attachment of positioners to control valve actuators
- BS 5834-1:1985  
Surface boxes, guards and underground chambers for gas and waterworks purposes - Specification for guards, including foundation units
- BS 5834-2:1983  
Surface boxes, guards and underground chambers for gas and waterworks purposes - Specification for small surface boxes
- BS 5834-3:1985  
Surface boxes, guards and underground chambers for gas and waterworks purposes - Specification for large surface boxes

- BS 5834-4:1989  
Surface boxes, guards and underground chambers for gas and waterworks purposes - Specification for preformed chambers
- BS 5995:1980  
Methods of test for electrohydraulic servovalves
- BS 6282-2:1982  
Devices with moving parts for the prevention of contamination of water by backflow - Specification for check valves of nominal size up to and including DN 54
- BS 6282-3:1982  
Devices with moving parts for the prevention of contamination of water by backflow - Specification for in-line anti-vacuum valves of nominal size up to and including DN 42
- BS 6282-4:1982  
Devices with moving parts for the prevention of contamination of water by backflow - Specification for combined check and anti-vacuum valves of nominal size up to and including DN 42
- BS 6283-2:1991  
Safety and control devices for use in hot water systems - Specifications for temperature relief valves for pressures from 1 bar to 10 bar
- BS 6283-4:1991  
Safety and control devices for use in hot water systems - Specification for drop-tight pressure reducing valves of nominal size up to and including DN 50 for supply pressures up to and including 12 bar
- BS 6494-4:1989  
Hydraulic fluid power valve mounting surfaces - Specification for clamping dimensions of four-part, size 03 and 05, modular stack valves and directional control valves
- BS 6675:1986  
Specification for servicing valves (copper alloy) for water services
- BS 6683:1985  
Guide to installation and use of valves
- BS 6697:1986  
Methods of test for electrohydraulic proportional control valves
- BS 6755-2:1987  
Testing of valves - Specification for fire type-testing requirements
- BS 6759-1:1995  
Safety valves - Part 1. Specification for safety valves for steam and hot water
- BS 6759-2:1997  
Safety valves - Part 2. Safety valves for compressed air or inert gas
- BS 6759-3:1995  
Safety valves - Part 3. Specification for safety valves for process fluids
- BS 6821:1988  
Methods for aerodynamic testing of dampers and valves
- BS 7296-1:1990  
Cavities for hydraulic fluid power cartridge valves - specification for two-port slip-in valves
- BS 7350:1990  
Specification for double regulating globe valves and flow measurement devices for heating and chilled water systems
- BS 7389-1:1990  
Pneumatic fluid power valve mounting surfaces - specification for five-port directional control valves (without electrical motor)

- BS 7438:1991  
Specification steel and copper alloy wafer check valves, single disk, spring-loaded type
- BS EN 488:2003  
District heating pipes - Preinsulated bonded pipe systems for directly buried hot water networks - Steel valve assembly for steel service pipes, polyurethane thermal insulation and outer casing of polyethylene
- BS EN 558-1:1996  
Industrial valves face to face and center to face dimensions of metal valves for use in flanged pipe systems. Part 1 PN designated valves
- BS EN 558-2:1996  
Industrial valves face to face and center to face dimensions of metal valves for use in flanged piping systems. Part 2 class-designated valves
- BS EN 561:2002  
Gas welding equipment - Quick-action coupling with shut-off valves for welding, cutting and allied processes
- BS EN 736-1:1995  
Valves - Terminology - Definition of types of valves
- BS EN 736-2:1997  
Valves - Terminology - Definition of components of valves
- BS EN 816:1997  
Sanitary tapware - Automatic shut-off valves PN 10
- BS EN 917:1997  
Plastics piping systems - Thermoplastics valves - Test methods for resistance to internal pressure and leaktightness
- BS EN 1092-2:1997  
Flanges and their joints - Circular flanges for pipes, valves, fittings and accessories, PN designated - Cast iron flanges
- BS EN 1112:1997  
Shower outlets for (PN 10) sanitary tapware
- BS EN 1680:1997  
Plastics piping systems - Valves for polyethylene (PE) piping systems - Test method for leaktightness under and after bending applied to the operating mechanism
- BS EN 1704:1997  
Plastics piping systems - Thermoplastics valves - Test method for the integrity of a valve after temperature cycling under bending
- BS EN 1705:1997  
Plastics piping systems - Thermoplastics valves - Test method for the integrity of a valve after an external blow
- BS EN 12119:1997  
Plastics piping systems - Polyethylene (PE) valves - Test method for resistance to thermal cycling
- BS EN 14141:2003  
Valves for natural gas transportation in pipelines - Performance requirements and tests
- BS EN 14189:2003  
Transportable gas cylinders. Inspection and maintenance of cylinder valves at time of periodic inspection of gas cylinders. Partially replaces BS 341-1:1991
- BS EN 28233:1992  
Thermoplastics valves - Torque - Test method
- BS EN 28659:1992  
Thermoplastics valves - Fatigue strength - Test method

- BS EN 60534-1:1989  
Industrial-process control valves - Industrial-process control valves - Control valve terminology and general considerations
- BS EN 60534-2-1:1999  
Industrial-process control valves - Flow capacity - Flow capacity - Sizing equations for fluid flow under installed conditions
- BS EN 60534-2-3:1998  
Industrial-process control valves - Flow capacity - Test procedures
- BS EN 60534-2-5:2003  
Industrial-process control valves - Flow capacity - Sizing equations for fluid flow through multistage control valves with interstage recovery
- BS EN 60534-3-1:2000  
Industrial-process control valves - Dimensions - Face-to-face dimensions for flanged, two-way, globe-type, straight pattern and centre-to-face dimensions for flanged, two-way, globe-type, angle pattern control valves
- BS EN 60534-3-2:2001  
Industrial-process control valves - Dimensions - Face-to-face dimensions for rotary control valves except butterfly valves
- BS EN 60534-3-3:1998  
Industrial-process control valves - Dimensions - End-to-end dimensions for buttweld, two-way, globe-type, straight pattern control valves
- BS EN 60534-5:2004  
Industrial-process control valves - Marking
- BS EN 60534-6-1:1998  
Industrial-process control valves - Mounting details for attachment of positioners to control valves - Positioner mounting on linear actuators
- BS EN 60534-6-2:2001  
Industrial-process control valves - Mounting details for attachment of positioners to control valves - Positioner mounting on rotary actuators
- BS EN 60534-8-1:2001  
Industrial-process control valves - Noise considerations - Laboratory measurement of noise generated by aerodynamic flow through control valves
- BS EN 60534-8-2:1991  
Industrial-process control valves - Noise considerations - Laboratory measurement of noise generated by hydrodynamic flow through control valves
- BS EN 60534-8-3:2000  
Industrial-process control valves - Noise considerations - Control valve aerodynamic noise prediction method
- BS EN 60534-8-4:1994  
Industrial-process control valves - Noise considerations - Prediction of noise generated by hydrodynamic flow
- BS EN 60730-2-8:2002  
Specification for automatic electrical controls for household and similar use - Particular requirements - Particular requirements for electrically operated water valves, including mechanical requirements
- BS EN ISO 5210:1996  
Industrial valves - Multi-turn valve actuator attachments
- BS ISO 4401:1996  
Hydraulic fluid power - Four-port directional control valves - Mounting surfaces
- BS ISO 6263:1997  
Hydraulic fluid power - Compensated flow-control valves - Mounting surfaces

## [MSS - Valve Standards](#)

### **Manufacturers Standardization Society - MSS - of the Valve and Fittings Industry - valve standards**

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[MSS - Manufacturers Standardization Society of the Valve and Fittings Industry](#) - valve standards:

- MSS SP-6  
Standard finishes for contact faces of pipe flanges of valves and fittings
- MSS SP-9  
Spot facing for bronze , iron and steel flanges
- MSS SP-25  
Standard marking system for valves, fittings, flanges and unions
- MSS SP-42  
Class 150 corrosion resistant gate, globe, angle and check valves with flanged and butt weld ends
- MSS SP-54  
Quality standard for steel castings - radiographic inspection method for valves , flange, fittings and other piping components
- MSS SP-55  
Quality standard for steel castings for valves, flanges and fittings and other piping components
- MSS SP-60  
Connecting flange joint between tapping sleeves and tapping valves
- MSS SP-61  
Hydrostatic testing of steel valves
- MSS SP-67  
Butterfly valves
- MSS SP-70  
Cast iron gate valves , flanged and threaded ends
- MSS SP-71  
Cast iron swing check valves, flanged and threaded ends
- MSS SP-72  
Ball valves with flanged or butt - welding ends for general service
- MSS SP-78  
Cast iron plug valves
- MSS SP-80  
Bronze Gate, globe angle and check valves
- MSS SP-82  
Valves pressure testing methods
- MSS SP-84  
Steel valves socket welding and threaded ends
- MSS SP-86  
Metric data in standards for valves, flanges and fittings

## [JIS - Valve Standards](#)

# Japanese industrial valve standards and specifications from JAS - the Japanese Standards Association

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Industrial valve standards and specifications from the [Japanese Standards Association - JAS](#) organized by divisions:

## B. Mechanical Engineering

- JIS B 0100:1984  
Glossary of terms for valves
- JIS B 0116:1978  
Glossary of terms for packings and gaskets
- JIS B 2001:1987  
Nominal size and bore of valves
- JIS B 2002:1987  
Face-to-face and end-to-end dimensions of valves
- JIS B 2003:1994  
General rules for inspection of valves
- JIS B 2004:1994  
General rules for marking on valves
- JIS B 2005:2004  
Test procedures for flow coefficients of valves
- JIS B 2007:1993  
Industrial-process control valves -- Inspection and routine testing
- JIS B 2011:2003 / AMENDMENT 1:2004  
Bronze gate, globe, angle, and check valves (Amendment 1)
- JIS B 2031:1994  
Gray cast iron valves
- JIS B 2032:1995  
Wafer type rubber-seated butterfly valves
- JIS B 2051:1994  
Malleable iron 10 K screwed valves
- JIS B 2061:2004  
Faucets, ball taps and flush valves
- JIS B 2062:1994  
Sluice valves for water works
- JIS B 2063  
Air vent valves for water works
- JIS B 2064  
Butterfly valves for water works
- JIS B 2071:2000  
Steel valves
- JIS B 2191  
Screwed bronze plug cocks and gland cocks
- JIS B 2192  
Threaded ends bronze packing plug valves
- JIS B 2401:1999  
O-rings

- JIS B 2403:1995  
V-packings
- JIS B 2406:1991  
O-rings housings -- Design criteria
- JIS B 8210:1994  
Steam boilers and pressure vessels -- Spring loaded safety valves
- JIS B 8225:1993  
Safety valves - measuring methods for coefficient of discharge
- JIS B 8244:2004  
Valves for dissolved acetylene cylinder
- JIS B 8245:2004  
Valves for liquefied petroleum gas cylinder
- JIS B 8246:2004  
Valves for high pressure gas cylinders
- JIS B 8355:1997  
Hydraulic fluid power -- Subplate type solenoid operated four-port valves
- JIS B 8357:2000  
Hydraulic fluid power -- Compensated flow-control valves -- Mounting surfaces
- JIS B 8372-1/2:2003  
Pneumatic fluid power -- Compressed air pressure regulators and filter-regulators --  
Part 1: Main characteristics to be included in literature from suppliers and product-making requirements  
Part 2: Test methods to determine the main characteristics to be included in literature from suppliers
- JIS B 8373:1993  
Pneumatic system -- 2-port solenoid operated valves
- JIS B 8374:1993  
Pneumatic system -- 3-port solenoid operated valves
- JIS B 8375  
Pneumatic system -- 4-port and 5 port solenoid operated valves
- JIS B 8376:1994  
Speed control valves for pneumatic use
- JIS B 8401:1999  
Automatic steam traps
- JIS B 8402:1993  
Radiator traps
- JIS B 8410:2004  
Pressure reducing valves for water works
- JIS B 8414:2004  
Relief valves for hot water appliances
- JIS B 8471:2004  
Water pipe line -- Solenoid valves
- JIS B 8472:1994  
Steam pipe line -- Solenoid valves
- JIS B 8473:1994  
Fuel oil pipe line -- Solenoid valves
- JIS B 8605:2002  
Stop valves for refrigerants
- JIS B 8619:1999  
Thermostatic refrigerant expansion valves -- Methods of testing for performance

- JIS B 8651:2002  
Test methods for electro-hydraulic proportional pressure relief valves
- JIS B 8652:2002  
Test methods for electro-hydraulic proportional pressure relief valves and electro-hydraulic proportional pressure reducing and relieving valves
- JIS B 8653:2002  
Test methods for electro-hydraulic proportional metering valves
- JIS B 8654:2002  
Test methods for electro-hydraulic proportional series flow control valves
- JIS B 8655:2002  
Test methods for electro-hydraulic proportional directional series flow control valves
- JIS B 8656:2002  
Test methods for electro-hydraulic proportional bypass flow control valves
- JIS B 8657:2002  
Test methods for electro-hydraulic proportional directional bypass flow control valves
- JIS B 8659-1/2:2000  
Hydraulic fluid power -- Electrically modulated hydraulic control valves  
Part 1: Test methods for four-way directional flow control valves  
Part 2: Test methods for three-way directional flow control valves

## **E. Railway Engineering**

- JIS E 4115:1988  
Magnet valves for railway rolling stock
- JIS E 7701:1992  
Safety valves for high pressure gas tank car tanks

## **F. Shipbuilding**

- JIS F 0504:1989  
Application and setting pressure of relief valves for ships' machinery
- JIS F 3024:1996  
Shipbuilding -- Deck stands for controlling valves
- JIS F 3025:1996  
Shipbuilding -- Remote handling fittings for valves on small ships' forepeak bulkhead
- JIS F 3056:1995  
Ships' foot valves
- JIS F 3057:1996  
Bronze vertical storm valves
- JIS F 3058:1996  
Cast steel vertical storm valves
- JIS F 3059:1996  
Bronze screwdown vertical storm valves
- JIS F 3060:1996  
Cast steel screwdown vertical storm valves
- JIS F 5610:1996  
Shipbuilding -- Forged steel 20K reflex type water gauges with valves for boilers
- JIS F 5611:1996  
Shipbuilding -- Forged steel 63K transparent type water gauges with valves for boilers



- JIS F 7007:1979  
Abbreviation used in name plate for marine valve
- JIS F 7211:1996  
Shipbuilding -- 5K level gauges with valves
- JIS F 7212:1996  
Shipbuilding -- Oil level gauges with self closing valves
- JIS F 7213:1996  
Shipbuilding -- 16K water gauges with valve
- JIS F 7216:1996  
Shipbuilding -- Self closing valves for oil level gauges
- JIS F 7300:1996  
Shipbuilding -- Application for valves and cocks
- JIS F 7301:1997  
Shipbuilding -- Bronze 5K globe valves
- JIS F 7302:1997  
Shipbuilding -- Bronze 5K angle valves
- JIS F 7304:1996  
Shipbuilding -- Bronze 16K angle valves
- JIS F 7305:1996  
Shipbuilding -- Cast iron 5K globe valves
- JIS F 7306:1996  
Shipbuilding -- Cast iron 5K angle valves
- JIS F 7307:1996  
Shipbuilding -- Cast iron 10K globe valves
- JIS F 7308:1996  
Shipbuilding -- Cast iron 10K angle valves
- JIS F 7309:1996  
Shipbuilding -- Cast iron 16K globe valves
- JIS F 7310:1996  
Shipbuilding -- Cast iron 16K angle valves
- JIS F 7311:1996  
Shipbuilding -- Cast steel 5K globe valves
- JIS F 7312:1996  
Shipbuilding -- Cast steel 5K angle valves
- JIS F 7313:1996  
Shipbuilding -- Cast steel 20K globe valves
- JIS F 7314:1996  
Shipbuilding -- Cast steel 20K angle valves
- JIS F 7315:1996  
Shipbuilding -- Cast steel 30K globe valves
- JIS F 7316:1996  
Shipbuilding -- Cast steel 30K angle valves
- JIS F 7317:1996  
Shipbuilding -- Cast steel 40K globe valves
- JIS F 7318:1996  
Shipbuilding -- Cast steel 40K angle valves
- JIS F 7319:1996  
Shipbuilding -- Cast steel 10K globe valves
- JIS F 7320:1996  
Shipbuilding -- Cast steel 10K angle valves

- JIS F 7329:1996  
Shipbuilding -- Forged steel 40K globe valves
- JIS F 7330:1996  
Shipbuilding -- Forged steel 40K angle valves
- JIS F 7333:1996  
Shipbuilding -- Cast iron hose valves
- JIS F 7334:1996  
Shipbuilding -- Bronze hose valves
- JIS F 7336:1996  
Shipbuilding -- Forged steel globe air valves
- JIS F 7337:1996  
Shipbuilding -- Forged steel angle air valves
- JIS F 7340:1996  
Shipbuilding -- Cast steel globe air valves
- JIS F 7341:1996  
Shipbuilding -- Forged steel 100K pressure gauge valves
- JIS F 7346:1996  
Shipbuilding -- Bronze 5K globe valves (union bonnet type)
- JIS F 7347:1996  
Shipbuilding -- Bronze 5K angle valves (union bonnet type)
- JIS F 7348:1996  
Shipbuilding -- Bronze 16K globe valves (union bonnet type)
- JIS F 7349:1996  
Shipbuilding -- Bronze 16K angle valves (union bonnet type)
- JIS F 7350:1996  
Shipbuilding -- Hull cast steel angle valves
- JIS F 7351:1996  
Shipbuilding -- Bronze 5K screw-down check globe valves
- JIS F 7352:1996  
Shipbuilding -- Bronze 5K screw-down check angle valves
- JIS F 7353:1996  
Shipbuilding -- Cast iron 5K screw-down check globe valves
- JIS F 7354:1996  
Shipbuilding -- Cast iron 5K screw-down check angle valves
- JIS F 7356:1996  
Shipbuilding -- Bronze 5K lift check valves
- JIS F 7358:1996  
Shipbuilding -- Cast iron 5K lift check globe valves
- JIS F 7359:1996  
Shipbuilding -- Cast iron 5K lift check angle valves
- JIS F 7360:1996  
Shipbuilding -- Hull cast steel gate valves
- JIS F 7363:1996  
Shipbuilding -- Cast iron 5K gate valves
- JIS F 7364:1996  
Shipbuilding -- Cast iron 10K gate valves
- JIS F 7365:1996  
Shipbuilding -- Hull cast steel globe valves
- JIS F 7366:1996  
Shipbuilding -- Cast steel 10K gate valves

- JIS F 7367:1996  
Shipbuilding -- Bronze 5K rising stem type gate valves
- JIS F 7368:1996  
Shipbuilding -- Bronze 10K rising stem type gate valves
- JIS F 7369:1996  
Shipbuilding -- Cast iron 16K gate valves
- JIS F 7371:1996  
Shipbuilding -- Bronze 5K swing check valves
- JIS F 7372:1996  
Shipbuilding -- Cast iron 5K swing check valves
- JIS F 7373:1996  
Shipbuilding -- Cast iron 10K swing check valves
- JIS F 7375:1996  
Shipbuilding -- Cast iron 10K screw-down check globe valves
- JIS F 7376:1996  
Shipbuilding -- Cast iron 10K screw-down check angle valves
- JIS F 7377:1996  
Shipbuilding -- Cast iron 16K screw-down check globe valves
- JIS F 7378:1996  
Shipbuilding -- Cast iron 16K screw-down check angle valves
- JIS F 7379:1996  
Shipbuilding -- Brass 30K stop valves with bite joint(s)
- JIS F 7388:1996  
Shipbuilding -- Bronze 20K globe valves
- JIS F 7389:1996  
Shipbuilding -- Bronze 20K angle valves
- JIS F 7390:1996  
Shipbuilding -- Cocks with lock
- JIS F 7398:1996  
Shipbuilding -- Fuel oil tank self-closing drain valves
- JIS F 7399:2002  
Ship building -- Oil tank emergency shut-off valves
- JIS F 7400:1996  
Shipbuilding -- Valves and cocks -- General inspection requirement
- JIS F 7403:1996  
Shipbuilding -- Hull bronze globe valves
- JIS F 7404:1996  
Shipbuilding -- Hull bronze angle valves
- JIS F 7409:1996  
Shipbuilding -- Bronze 16K screw-down check globe valves
- JIS F 7410:1996  
Shipbuilding -- Bronze 16K screw-down check angle valves
- JIS F 7411:1996  
Shipbuilding -- Bronze 5K screw-down check globe valves (Union bonnet type)
- JIS F 7412:1996  
Shipbuilding -- Bronze 5K screw-down check angle valves (Union bonnet type)
- JIS F 7413:1996  
Shipbuilding -- Bronze 16K screw-down check globe valves (Union bonnet type)
- JIS F 7414:1996  
Shipbuilding -- Bronze 16K screw-down check angle valves (Union bonnet type)

- JIS F 7415:1996  
Shipbuilding -- Bronze 5K lift check globe valves (Union bonnet type)
- JIS F 7416:1996  
Shipbuilding -- Bronze 5K lift check angle valves (Union bonnet type)
- JIS F 7417:1996  
Shipbuilding -- Bronze 16K lift check globe valves (Union bonnet type)
- JIS F 7418:1996  
Shipbuilding -- Bronze 16K lift check angle valves (Union bonnet type)
- JIS F 7421:1996  
Shipbuilding -- Forged steel 20K globe valves
- JIS F 7422:1996  
Shipbuilding -- Forged steel 20K angle valves
- JIS F 7425:1996  
Shipbuilding -- Cast iron valves
- JIS F 7426:1996  
Shipbuilding -- Cast steel valves
- JIS F 7456:1999  
Shipbuilding -- Remote shut-off devices for fuel oil tank and lubricating oil tank emergency shut-off valves
- JIS F 7457:1999  
Shipbuilding -- Pneumatically operated remote shut-off devices for fuel oil tank and lubricating oil tank emergency shut-off valves
- JIS F 7471:1996  
Shipbuilding -- Cast steel 10K screw-down check globe valves
- JIS F 7472:1996  
Shipbuilding -- Cast steel 10K screw-down check angle valves
- JIS F 7473:1996  
Shipbuilding -- Cast steel 20K screw-down check globe valves
- JIS F 7474:1996  
Shipbuilding -- Cast steel 20K screw-down check angle valves
- JIS F 7480:1996  
Shipbuilding -- Rubber seat butterfly valves

## **G. Ferrous Materials and Metallurgy**

- JIS G 3561:1994  
Oil tempered wire for valve springs

## **S. Domestic Wares**

- JIS S 2120:2000  
Gas valves
- JIS S 2150:1993  
Manually operated gas valves for gas appliances
- JIS S 2151:1993  
Automatic gas valves for gas appliances
- JIS S 3019:1997  
Oil control valves for oil burning appliances

## [DIN - Valve Standards](#)

### **An overview of DIN - Deutsches Institut für Normung - valve standards**

Sponsored Links

[DIN - Deutsches Institut für Normung](#) - valve related standards:

- DIN 475-1  
Widths across flats for bolts, screws, valves and fittings
- DIN 475-2  
Wrench and socket openings
- DIN 477-1  
Gas cylinder valves rated for test pressures up to 300 bar; types, sizes and outlets
- DIN 477-4  
Compressed gas cylinder valves; swing check valves for camping-cylinders
- DIN 477-5  
Gas cylinder valves - Part 5: For test pressure up to 450 bar max.; Outlet connections
- DIN 477-6  
Gas cylinder valves; test pressures 300 bar and 450 bar, with cylindrical thread for valve stem and gas cylinder neck for breathing apparatus; sizes, threads
- DIN 477-9 (Draft standard)  
Gas cylinder valves, for highest grade gases; sizes, connections, threads
- DIN 1690-10  
Technical delivery conditions for castings of metallic materials; supplementary requirements for steel castings used for heavy-duty valves
- DIN 3202-4  
Face-to-face and center-to-face dimensions of valves; Valves with female thread connection
- DIN 3202-5  
Face-to-face and center-to-face dimensions of valves; valves for connection with compression couplings
- DIN 3230-3  
Technical delivery conditions for valves; Compilation of test methods
- DIN 3230-4  
Technical Conditions of Delivery for Valves; Valves for Potable Water Service, Requirements and Testing
- DIN 3230-5  
Technical delivery conditions; valves for gas installations and gas pipelines; requirements and testing
- DIN 3230-6  
Technical delivery conditions for valves; requirements and methods of test for valves for use with flammable liquids
- DIN 3266-1  
Valves for drinking water installations on private premises; PN 10 pipe interrupters, pipe disconnectors, anti-vacuum valves
- DIN 3266-2  
Valves for drinking water installations on private premises; PN 10 pipe interrupters, pipe disconnectors, anti-vacuum valves; testing
- DIN 3320-1  
Safety valves; safety shut-off valves; definitions, sizing, marking

- DIN 3320-3 (Draft standard)  
Safety valves; safety shut-off valves; center for face dimensions of flanged safety valves to PN 40 and to DN 250 inlet
- DIN 3339  
Valves; body component materials
- DIN 3352-1  
Gate Valves; General Information
- DIN 3352-2  
Cast iron gate valves, with metallic seat and inside screw stem
- DIN 3352-3  
Cast iron gate valves, with metallic seat and outside screw stem
- DIN 3352-4  
Cast iron gate valves with elastomeric obturator seatings and inside screw stem
- DIN 3352-5  
Steel gate valves, isomorphs series
- DIN 3352-13  
Double-socket cast iron gate valves, with elastomeric obturator seat and inside screw stem
- DIN 3356-1  
Globe valves; General data
- DIN 3356-2  
Globe valves; Cast iron stop valves
- DIN 3356-3  
Globe valves; Unalloyed steel stop valves
- DIN 3356-4  
Globe valves; High temperature steel stop valves
- DIN 3356-5  
Globe valves; Stainless steel stop valves
- DIN 3357-1  
Metal ball valves; general requirements and methods of test
- DIN 3357-2  
Full bore steel ball valves
- DIN 3357-3  
Reduced bore steel ball valves
- DIN 3357-4  
Full bore nonferrous metal ball valves
- DIN 3357-5  
Reduced bore nonferrous metal ball valves
- DIN 3381  
Safety devices for gas supply installations operating at working pressures up to 100 bar; pressure relief governors and safety shut-off devices
- DIN 3399  
Gas low-pressure cut-off valves; safety requirements, testing
- DIN 3441-1  
Unplasticized polyvinyl chloride (PVC-U) valves; requirements and testing
- DIN 3441-2  
Unplasticized polyvinyl chloride (PVC-U) valves; ball valves; dimensions
- DIN 3441-3  
Unplasticized polyvinyl chloride (PVC-U) valves; diaphragm valves; dimensions

- DIN 3441-4  
Valves of Rigid PVC (Unplasticized or Rigid Polyvinyl Chloride); Y-valves (Inclined-seat Valves), Dimensions
- DIN 3441-5  
Unplasticized polyvinyl chloride (PVC-U) valves; PN 6 and PN 10 wafer type butterfly valves; dimensions
- DIN 3441-6  
Unplasticized polyvinyl chloride (UPVC) valves; gate valves with inside screw stem; dimensions
- DIN 3442-1  
Polypropylene (PP) valves; requirements and testing
- DIN 3442-2  
Fittings of PP (Polypropylene); Ball valves, Dimensions
- DIN 3442-3  
Polypropylene (PP) valves; diaphragm valves; dimensions
- DIN 3475  
Spheroidal graphite cast iron valves and fittings provided with internal corrosion protection by means of enamelling, for use in drinking water supply systems; requirements and testing
- DIN 3476  
Corrosion protection of water valves and pipe fittings by epoxy powder or liquid epoxy resin linings - Requirements and testing
- DIN 3500  
PN 10 piston type gate valves for use in drinking water supply systems
- DIN 3502  
Stopvalves for drinking water supplies on and in private property; straight pattern globe valves with oblique bonnet, rated for nominal pressure PN 10
- DIN 3512  
Stopvalves for domestic water supply - Two-way valves - Vertical bonnet type PN 10; Straight pattern globe valve; Technical rule of the DVGW
- DIN 3535-1  
Sealants for gas supplies; elastomeric gasket materials for gas valves in domestic installations; requirements and tests
- DIN 3535-5  
Rubber/cork and rubber/cork synthetic fiber based gasket materials for use with gas valves, gas appliances and gas pipe work
- DIN 3535-6  
Gaskets for gas supply - Part 6: Gasket materials based on synthetic fibers, graphite or polytetrafluoroethylen (PTFE) for gas valves, gas appliances and gas mains
- DIN 3537-1  
Gas stop valves rated for pressures up to 4 bar; requirements and acceptance testing
- DIN 3543-1  
Metal tapping valves; requirements, testing
- DIN 3543-2  
Metallic tapping stop valves; dimensions
- DIN 3543-3, Publication date:1978-07  
PVC tapping valves for plastic pipes; dimensions
- DIN 3543-4  
High density polyethylene (HDPE) tapping valves for HDPE pipes; dimensions
- DIN 3544-1  
High-density polyethylene (HDPE) valves; tapping valves; requirements and test

- DIN 3852-1  
Ports and stud ends with metric fine pitch thread, for use with compression couplings, valves and screw plugs; Dimensions
- DIN 3852-2  
Stud ends and tapped holes with pipe thread, for use with compression couplings, valves and screw plugs; Dimensions
- DIN 3852-11  
Stud ends and tapped holes for use with compression couplings, valves and screw plugs - Type E stud end dimensions
- DIN 19208  
Flow measurement; mating dimensions and application of shut-off valves for differential pressure transducers and differential pressure piping
- DIN 19578-1  
Stop valves for site drainage systems; anti-flooding valves for faecal sewage systems; requirements
- DIN 20042  
Water valve, nominal pressure 40 - Dimensions and requirements
- DIN EN 28233  
Thermoplastics valves; torques; test method (ISO 8233:1988)
- DIN 30677-1  
Corrosion protection of buried valves; coating for normal requirement
- DIN 30677-2  
External corrosion protection of buried valves; heavy-duty thermoset plastics coatings
- DIN 32509  
Hand-operated shut-off valves for welding, cutting and allied processes - Type of construction, safety requirements, tests
- DIN 42560  
Transformers; Throttle-valves NW 80, Dimensions, Tightness Testing
- DIN 74279  
Air braking systems - Charging valves
- DIN 86251  
Shut off valves for shipboard use, of cast iron, with flanges, DN 15 to 500
- DIN 86252  
Non return valves for shipboard use, cut off type, of cast iron, with flanges, DN 15 to 500
- DIN 86260  
Shut off valves for shipboard use, of gun metal, with flanges, DN 15 to 500
- DIN 86261  
Non return valves for shipboard use, cut off type, of gun metal, with flanges, DN 15 to 500
- DIN 86501  
Valves, screwed bonnet type of gun metal with 24 $\frac{1}{2}$ -connection with port end W according to DIN 3861
- DIN 86528  
Tab washers for screwed bonnet valves
- DIN 86552  
Valves, screwed bonnet type of steel with 24 $\frac{1}{2}$ -connection with port end W according to DIN 3861
- DIN 86720  
Gate valves flat sided of gun metal with screwed bonnet and flanges, DN 20 to DN 100, PN 16



- DIN 87101, Publication date:2003-10  
Non-return flaps (storm valves), self-closing, vertical type, DN 50 up to DN 150, PN 1 - Mating dimensions for flanges according to PN 10
- DIN 87901  
Sniffle valves for pumps
- DIN EN 488  
District heating pipes - Preinsulated bonded pipe systems for directly buried hot water networks - Steel valve assembly for steel service pipes, polyurethane thermal insulation and outer casing of polyethylene; German version EN 488:2003
- DIN EN 558-1  
Face-to-face and center-to-face dimensions of metal industrial valves for use in flanged pipe systems - PN designated valves
- DIN EN 558-2  
Face-to-face and center-to-face dimensions of metal industrial valves for use in flanged pipe systems - Class-designated valves
- DIN EN 736-1  
Valves - Terminology - Types of valves
- DIN EN 736-2  
Valves - Terminology - Part 2: Definition of components of valves
- DIN EN 736-3  
Valves - Terminology - Part 3: Definition of terms (includes Amendment A1:2001); English version of DIN EN 736-3:1999 + A1:2001
- DIN EN 917  
Plastics piping systems - Thermoplastics valves - Test methods for resistance to internal pressure and leak-tightness
- DIN EN 1092-1  
Flanges and their joints - Circular flanges for pipes, valves, fittings and accessories - Part 1: Steel flanges, PN designated
- DIN EN 1092-2  
Circular flanges for pipes, valves, fittings and accessories, PN designated - Part 2: Cast iron flanges
- DIN EN 1092-4  
Flanges and their joints - Circular flanges for pipes, valves, fittings and accessories, PN designated - Part 4: Aluminium alloy flanges
- DIN EN 1680  
Plastics piping systems - Valves for polyethylene (PE) piping systems - Test method for leaktightness under and after bending applied to the operating mechanism
- DIN EN 1705  
Plastics piping systems - Thermoplastics valves - Test method for the integrity of a valve after an external blow; German version EN 1705:1996
- DIN EN 28233  
Thermoplastics valves; torques; test method (ISO 8233:1988)
- **[Chinese and International Valve Standards](#)**
- **Chinese valve standards compared with the international ISO, ASTM , ASME, ANSI, MSS, API and JIS standards**

Chinese Standard Code Num.	Chinese Standard Name	Adopting Standard
GB12220	General valve -- marking	ISO 5209
GB12221	Flanged ends metal valve - face-to-face dimensions	ISO 5752
GB12222	Multi-turn valve -- connection of driving device	ISO 5210/1 - 3
GB12223	Part-turn valve -- connection of driving device	ISO 5211/1 - 3
GB12224	Steel valve - general requirements	ANSI B16.34
GB12225	General valve -- copper alloy casting ware technology requirements	ASTM B584
GB12226	General valve -- gray casting iron technology requirements	ISO 185,BS 1452
GB12228	General valve -- carbon forging steel technology requirements	ASTM A 105,A181
GB12229	General valve -- carbon casting steel technology requirements	ASTM A703
GB12230	General valve --- Ad casting steel technology requirements	ASTM A351
GB12232	General valve -- flanged ends iron gate valve	ISO5996-1982, API 595
GB12233	General valve -- iron gate valve and lift check valve	BS5152,5153

Chinese Standard Code Num.	Chinese Standard Name	Adopting Standard
GB12234	General valve -- flanged and butt-welding ends copper gate valve	API 600
GB12237	General valve -- flanged and butt-welding ends steel ball valve	ISO7121, API 607
GB12238	General valve -- flanged and wafer ends butterfly valve	BS5155
GB12239	General valve -- diaphragm valve	BS5156,NFE29
GB12240	General valve -- iron plug valve	API 593
GB12241	Safety valve -- general requirements	ISO 4126
GB12242	Safety valve -- characteristic testing solution	ANSI/ASME PTC25.3
GB12243	Direct spring loaded safety valve	JIS B 8210
GB12244	Pressure reducing valve - general requirements	JIS B 8372,B8410
GB12245	Pressure reducing valve - characteristic testing solution	JIS B 8372,B8410
GB12246	Pilot operated pressure reducing valve	JIS B 8372, DSS405
GB12247	Steam trap valve -- classification	ISO 6704
GB12248	Steam trap valve -- technology terms	ISO 6552
GB12249	Steam trap valve -- marking	ISO 6553

Chinese Standard Code Num.	Chinese Standard Name	Adopting Standard
GB12250	Steam trap valve -- face-to-face dimensions	ISO 6554
GB12251	Steam trap valve -- testing solution	ISO 6948,7841,7842
GB/T13927	General valve -- pressure testing	ISO 5208
JB/T6899-93	Valve fire-proof test	ISO10497
JB/T7927-95	Valve casting steel ware out-form quality requirements	MSS SP55
ZBJ16006-90	Inspection and testing of valve	API 598

## [Chinese Valve Standards](#)

### Chinese standards for steel, cast iron and metal valves

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Chinese Standard Code Num.	Chinese Standard Name
GB12220	General valve - marking
GB12221	Flanged ends metal valve - face-to-face dimensions
GB12222	Multi-turn valve - connection of driving device
GB12223	Part-turn valve - connection of driving device
GB12224	Steel valve - general requirements

Chinese Standard Code Num.	Chinese Standard Name
GB12225	General valve - copper alloy casting ware technology requirements
GB12226	General valve - gray casting iron technology requirements
GB12227	General valve - ductile casting iron technology requirements
GB12228	General valve - carbon forging steel technology requirements
GB12229	General valve - carbon casting steel technology requirements
GB12230	General valve - a casting steel technology requirements
GB12232	General valve - flanged ends iron gate valve
GB12233	General valve - iron gate valve and lift check valve
GB12234	General valve - flanged and butt-welding ends copper gate valve
GB12235	General valve - flanged steel stop and lift check valve
GB12236	General valve - steel swing check valve
GB12237	General valve - flanged and butt-welding ends steel ball valve
GB12238	General valve - flanged and wafer ends butterfly valve
GB12239	General valve - diaphragm valve
GB12240	General valve - iron plug valve

Chinese Standard Code Num.	Chinese Standard Name
GB12241	Safety valve - general requirements
GB12242	Safety valve - characteristic testing solution
GB12243	Direct spring loaded safety valve
GB12244	Pressure reducing valve - general requirements
GB12245	Pressure reducing valve - characteristic testing solution
GB12246	Pilot operated pressure reducing valve
GB12247	Steam trap valve - classification
GB12248	Steam trap valve - technology terms
GB12249	Steam trap valve - marking
GB12250	Steam trap valve - face-to-face dimensions
GB12251	Steam trap valve - testing solution
GB/T13927	General valve - pressure testing
GB/T13932	General valve - iron swing check valve
GB/T15185	Iron and copper ball valve
GB/T15188.1	Valve face-to-face dimensions - butt-welding ends valve
GB/T15188.2	Valve face-to-face dimensions - wafer ends valve

Chinese Standard Code Num.	Chinese Standard Name
GB/T15188.3	Valve face-to-face dimensions - female screw-down valve
GB/T15188.4	Valve face-to-face dimensions - male screw -down valve
JB93	Handle
JB94	Spanner
JB106	Valve - marking and identifying paint
JB308	Valve - type establishing way
JB/T450	PN16.032.0Mpa forging angle type high-pressure valve, fastener and technology requirements
JB451	Lever type safety valve technology requirements
JB1308	Pg(2500kgf/cm <sup>2</sup> )valve type and base specification
JB1309	Pg(2500kgf/cm <sup>2</sup> )valve pipe and fastener technology requirements
JB/T1691	Valve key construction element dimension of stem head
JB1692	Umbrella type hand wheel
JB1693	Plane hand wheel
JB1694	Valve stem nut (1)
JB1695	Valve stem nut (2)

Chinese Standard Code Num.	Chinese Standard Name
JB1696	Valve stem nut (3)
JB1698	Valve stem nut (5)
JB1699	Valve stem nut (4)
JB1700.1	Locking nut (1)
JB1700.2	Locking nut (2)
JB1701	Valve stem nut (6)
JB1702.1	Bearing gland (1)
JB1702.2	Bearing gland (2)
JB1703	Sleeve liner
JB1706	Pressing sleeve nut
JB1708	Gland
JB1709	T type bolt
JB1712	Asbestos packing
JB1713	Packing seat(1)
JB1716	Packing seat(2)
JB/T1717	Valve construction key element back seat ring dimensions



Chinese Standard Code Num.	Chinese Standard Name
JB1718	Spacer (1)
JB1719	Spacer (2)
JB1720	Spacer (3)
JB1721	Spacer (4)
JB1726	Valve disc seat
JB1727	Folio circle
JB1728	Stop collar
JB/T1732	Valve construction key element taper sealing face dimensions
JB/T1733	Valve construction key element valve body copper sealing face dimensions
JB/T1734	Valve construction key element wedge disc and valve disc copper sealing face dimensions
JB1735	Foot valve disc sealing ring
JB1736	Swing check valve disc sealing ring
JB1737	Swing check valve disc sealing ring pressing board
JB/T1738	Valve construction key element dimensions of wedge gate valve body slide way and slide way groove

Chinese Standard Code Num.	Chinese Standard Name
JB/T1739	Valve construction key element dimensions of wedge gate valve body sealing plane clearance and wedge angle
JB/T1740	Valve construction key element dimensions of wedge disc sealing plane
JB1741	Thimble
JB1742	Adjusting ring
JB1747	Packing ring
JB1749	Ammonia valve disc
JB/T1750	Valve construction key element ammonia valve body sealing plane dimensions
JB/T1751-92	Valve construction key element socket welding and fitting pipe head dimension
JB/T1752-92	Valve construction key element male screw ends head dimensions
JB1753-91	Joint ring
JB1754-91	Joint
JB1755-91	Joint nut
JB/T1756-92	Valve construction key element dimensions of bayonet joint ends
JB1757-91	Bayonet

Chinese Standard Code Num.	Chinese Standard Name
JB1758-91	Bayonet nut
JB1759-91	Bearing ring
JB1760- 91	Six-angle bolt
JB1761-91	Bolt ring
JB/T1762-92	Valve construction key element spanner dimensions
JB2202-77	Direct spring loaded safety valve specification
JB2203-77	Direct spring loaded safety valve face-to-face dimensions
JB2205-77	Reducing valve face-to-face dimensions
JB2206-77	Reducing valve technology requirements
JB2311-78	Ball valve technology requirements
JB2765-81	Valve technology terms
JB2766-92	PN16.0- 32.0Mpa dimensions of forging high-pressure valve
JB/T2768-92	PN16.0- 32.0Mpa Pipe, piping fitting, valve head dimensions
JB/T2769-92	PN16.0- 32.0Mpa screw flange
JB/T2770-92	PN16.0- 32.0Mpa joint nut
JB/T2771-92	PN16.0- 32.0Mpa joint

Chinese Standard Code Num.	Chinese Standard Name
JB/T2772-92	PN16.0- 32.0Mpa Blind plate
JB/T2773-92	PN16.0- 32.0Mpa double head bolt
JB/T2774-92	PN16.0- 32.0Mpa double bolt ends and thread hole dimensions
JB/T2775-92	PN16.0- 32.0Mpa nut
JB/T2776-92	PN16.0- 32.0Mpa lens ring
JB/T2777-92	PN16.0- 32.0Mpa Non-hole lens ring
JB/T2778-92	PN16.0- 32.0Mpa temperature marking of pipe and fastener
JB3328-83	Air jar valve and pipe-line valve
JB3339-83	Little type medical air jar frame type valve connection dimensions
JB5206.1-91	Packing gland (1)
JB5206.2-91	Packing gland (2)
JB5206.3-91	Packing gland (3)
JB5207-91	Packing pressing plate
JB5208-91	Separating circle
JB5209-91	Plastics packing
JB5210-91	Back sealing ring

Chinese Standard Code Num.	Chinese Standard Name
JB5211-91	Gate valve seat ring
JB/T5296-91	General valve testing way of flow rate coefficient and flow resistant coefficient
JB/T5298-91	Steel plate gate valve for pipe line using
JB/T5299-91	General valve Hydraulic actuator butterfly type check valve
JB/T5300-91	General valve material
JB/T6438-92	Valve sealing face plasma arc welding - technology requirements
JB/T6439-92	Valve pressing casting steel ware - magnetism powder flaw detector inspection
JB/T6440-92	Valve pressing casting steel ware - rax irradiating inspection
JB/T6441-92	Safety valve for compressor purpose
JB/T6495-92	Valve construction key element Gate valve (or disc) T type groove dimensions
JB/T6496-92	Valve construction key element packing dimensions
JB/T6497-92	Valve construction key element stem head dimensions
JB/T6498-92	Valve construction key element disc and stem connection groove dimensions
JB/T6899-93	Valve fire-proof test

Chinese Standard Code Num.	Chinese Standard Name
JB/T6900-93	Draught valve
JB/T6901-93	Seal type glasses valve
JB/T6902-93	Valve casting steel ware hydraulic penetrating inspection way
JB/T6903-93	Valve forging steel ware super wave inspection way
JB/T6904-93	Inspection and testing of air jar valve
JB/T7248-94	Technology terms of low temperature casting steel for valve purpose
JB/T7744-95	Valve sealing face alloy powder for plasma arc welding
JB/T7745-95	Pipe line ball valve
JB/T7746-95	Diameter-shrinking forging steel valve
JB/T7747-95	Needle type stop valve
JB/T7748-95	Valve clearance degree and inspection way
JB/T7749-95	Technology terms of sub-zero valve
JB/T7927-95	Valve casting steel ware out-form quality requirements
JB/T7928-95	General valve offer requirements
JB/Z243-85	Gate valve static pressure length of life test rules
JB/Z244-85	Stop valve static pressure length of life test rules

Chinese Standard Code Num.	Chinese Standard Name
JB/Z245-85	Plug valve static pressure length of life test rules
JB/Z246-85	Ball valve static pressure length of life test rules
JB/Z247-85	Valve - electrically device length of life test rules
JB/Z248-85	Butterfly valve static pressure length of life test rules
ZBJ16002-87	Valve electrically driving apparatus technology terms
ZBJ16004-88	Reducing valve type and basing coefficient
ZBJ16006-90	Inspection and testing of valve
ZBJ16007-90	Steam trap valve technology terms
ZBJ16008-90	Hydraulic petroleum gas device urgent shut down valve - technology terms
ZBJ16009-90	Valve pneumatic actuator technology terms
JB/T8473-96	Instrument valve series
JB/T8528-97	General valve electric actuator - technology terms
JB/T8527-97	Metal sealing butterfly valve
JB/T8529-97	Explosion-proof type valve electric actuator - technology terms
JB/T8530-97	Valve electric actuator - type establishing way
JB/T8531-97	Valve manual actuator - technology terms

Chinese Standard Code Num.	Chinese Standard Name
JB/T8670-97	YBDF2 series explosion-proof three-phase asynchronous generator for valve electric actuator purpose - technology terms

## **ISO Valve Standards**

### **An overview of International Organization for Standardization - ISO - valve standards**

Sponsored Links

[ISO - International Organization for Standardization](#) - valve standards:

- ISO 683-15:1992  
Heat-treatable steels, alloy steels and free-cutting steels; part 15: valve steels for internal combustion engines
- ISO 4126-1:2004  
Safety devices for protection against excessive pressure - Part 1: Safety valves
- ISO 4401:1994  
Hydraulic fluid power - Four-port directional control valves - Mounting surfaces
- ISO 4411:1986  
Hydraulic fluid power; Valves; Determination of pressure differential/flow characteristics
- ISO 4422-4:1997  
Pipes and fittings made of unplasticized poly(vinyl chloride) (PVC-U) for water supply - Specifications - Part 4: Valves and ancillary equipment
- ISO 5208:1993  
Industrial valves; pressure testing of valves
- ISO 5209:1977  
General purpose industrial valves; Marking
- ISO 5210:1991  
Industrial valves; multi-turn valve actuator attachments
- ISO 5211:2001  
Industrial valves - Part-turn actuator attachment
- ISO 5599-1:2001  
Pneumatic fluid power - Five-port directional control valves - Part 1: Mounting interface surfaces without electrical connector
- ISO 5599-2:2001  
Pneumatic fluid power - Five-port directional control valves - Part 2: Mounting interface surfaces with optional electrical connector
- ISO 5599-3:1990  
Pneumatic fluid power; five-port directional control valves; part 3: code system for communication of valve functions



- ISO 5752:1982  
Metal valves for use in flanged pipe systems; Face-to-face and center-to-face dimensions
- ISO 5781:2000  
Hydraulic fluid power - Pressure-reducing valves, sequence valves, unloading valves, throttle valves and check valves - Mounting surfaces
- ISO 5996:1984  
Cast iron gate valves
- ISO 6002:1992  
Bolted bonnet steel gate valves
- ISO 6182-1:2004  
Fire protection - Automatic sprinkler systems - Part 1: Requirements and test methods for sprinklers
- ISO 6182-2:1993  
Fire protection; automatic sprinkler systems; part 2: requirements and test methods for wet alarm valves, retard chambers and water motor alarms
- ISO 6182-3:1993  
Fire protection; automatic sprinkler systems; part 3: requirements and test methods for dry pipe valves
- ISO 6182-4:1993  
Fire protection; automatic sprinkler systems; part 4: requirements and test methods for quick-opening devices
- ISO 6182-5:1995  
Fire protection - Automatic sprinkler systems - Part 5: Requirements and test methods for deluge valves
- ISO 6263:1997  
Hydraulic fluid power - Compensated flow-control valves - Mounting surfaces
- ISO 6264:1998  
Hydraulic fluid power - Pressure-relief valves - Mounting surfaces
- ISO 6403:1988  
Hydraulic fluid power; valves controlling flow and pressure; test methods
- ISO 6552:1980  
Automatic steam traps; Definition of technical terms
- ISO 6553:1980  
Automatic steam traps; Marking
- ISO 6554:1980  
Flanged automatic steam traps; Face-to-face dimensions
- ISO 6704:1982  
Automatic steam traps; Classification
- ISO 6948:1981  
Automatic steam traps; Production and performance characteristic tests
- ISO 7121:1986  
Flanged steel ball valves
- ISO 7244:1984  
Air distribution and air diffusion; Aerodynamic testing of dampers and valves
- ISO 7259:1988  
Predominantly key-operated cast iron gate valves for underground use
- ISO 7368:1989  
Hydraulic fluid power; two-port slip-in cartridge valves; cavities

- ISO 7508:1985  
Unplasticized polyvinyl chloride (PVC-U) valves for pipes under pressure; Basic dimensions; Metric series
- ISO 7714:2000  
Agricultural irrigation equipment - Volumetric valves - General requirements and test methods
- ISO 7790:1997  
Hydraulic fluid power - Four-port modular stack valves and four-port directional control valves, sizes 02, 03 and 05 - Clamping dimensions
- ISO 7841:1988  
Automatic steam traps; determination of steam loss; test methods
- DIN ISO 7967-3:1993  
Reciprocating internal combustion engines; vocabulary of components and systems; valves, camshaft drive and actuating mechanisms
- ISO 8233:1988  
Thermoplastics valves; torque; test method
- ISO 8242:1989  
Polypropylene (PP) valves for pipes under pressure; basic dimensions; metric series
- ISO 8659:1989  
Thermoplastics valves; fatigue strength; test method
- ISO 9393-1:2004  
Thermoplastics valves for industrial applications - Pressure test methods and requirements - Part 1: General
- ISO 9393-2:1997  
Thermoplastics valves - Pressure test methods and requirements - Part 2: Test conditions and basic requirements for PE, PP, PVC-U and PVDF valves
- ISO 9635:1990  
Irrigation equipment; hydraulically operated irrigation valves
- ISO 9644:1993  
Agricultural irrigation equipment; pressure losses in irrigation valves; test method
- ISO 9911:1993  
Agricultural irrigation equipment; manually operated small plastics valves
- ISO 9952:1993  
Agricultural irrigation equipment; check valves
- ISO 10418:2003  
Petroleum and natural gas industries - Offshore production installations - Basic surface process safety systems
- ISO 10423:2003  
Petroleum and natural gas industries - Drilling and production equipment - Wellhead and Christmas tree equipment,
- ISO 10497:2004  
Testing of valves - Fire type-testing requirements
- ISO 10522:1993  
Agricultural irrigation equipment; direct-acting pressure-regulating valves
- ISO 10631:1994  
Metallic butterfly valves for general purposes
- ISO 10931-4:1997  
Plastics piping systems for industrial applications - Poly(vinylidene fluoride) (PVDF) - Part 4: Valves
- ISO 10933:1997  
Polyethylene (PE) valves for gas distribution systems

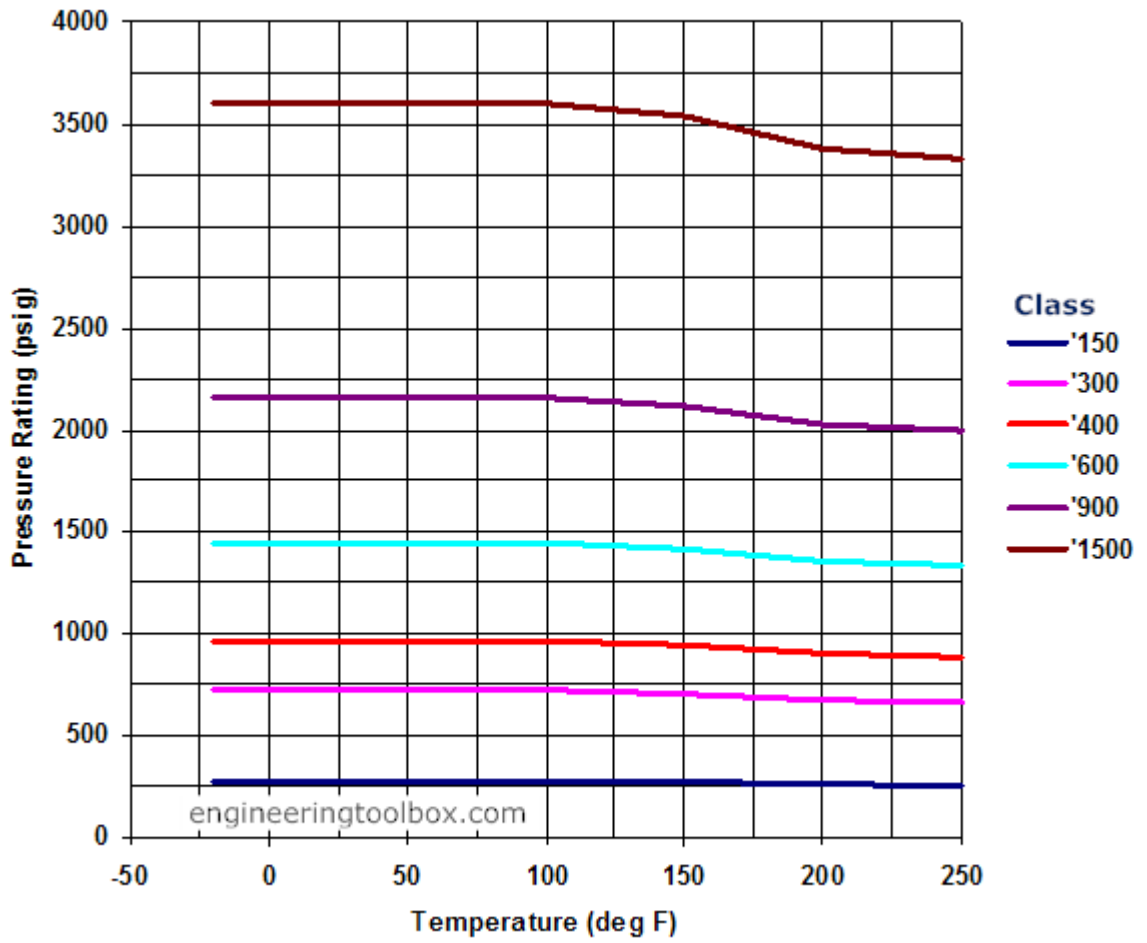
- **SAE Valve Standards**
- **SAE - Society of Automotive Engineers - valve standards**
  - Sponsored Links
- [The Society of Automotive Engineers, SAE, valves standards:](#)

Standard Code	Standard Name
SAE ARP 490E	Electro hydraulic servo valves
SAE AS 707B	Thermal sensitive inflation pressure release devices for tubeless aircraft wheels
SAE ARP 745	General components specification for explosive actuated valves one cycle
SAE AS 1607A	Valve starter control, pneumatic aircraft engine general specification for replaced ASE ARP 1607
SAE ARP 1616A	Self-sealing breakaway valves for crash-resistant aircraft fuel and oil systems - - replace AIR 1616
SAE AIR 4782	Hydrant valve and coupler historical background
SAE J 747	Control valve test procedure standard May 1990
SAE J 748	Hydraulic directional control valves 3000psi Maximum, recommended practice Dct.1957
SAE J 1117	Method of measuring and reporting the pressure differential flow characteristics of hydraulic fluid power valve, recommended practice June 1975
SAE J 1118	Hydraulic valves for motor vehicle brake systems test procedure, recommended practice Jun. 1978

Standard Code	Standard Name
SAE J 1235	Measuring and reporting the internal leakage of a hydraulic fluid power valve, Recommended practice June, 1978
SAE J 1409	Air Brake Valves Test Procedure, Recommended Practice March 1983 R(1988)
SAE J 1875	Materials for Plastic Check Valves for Vacuum Booster systems, standard June 1993

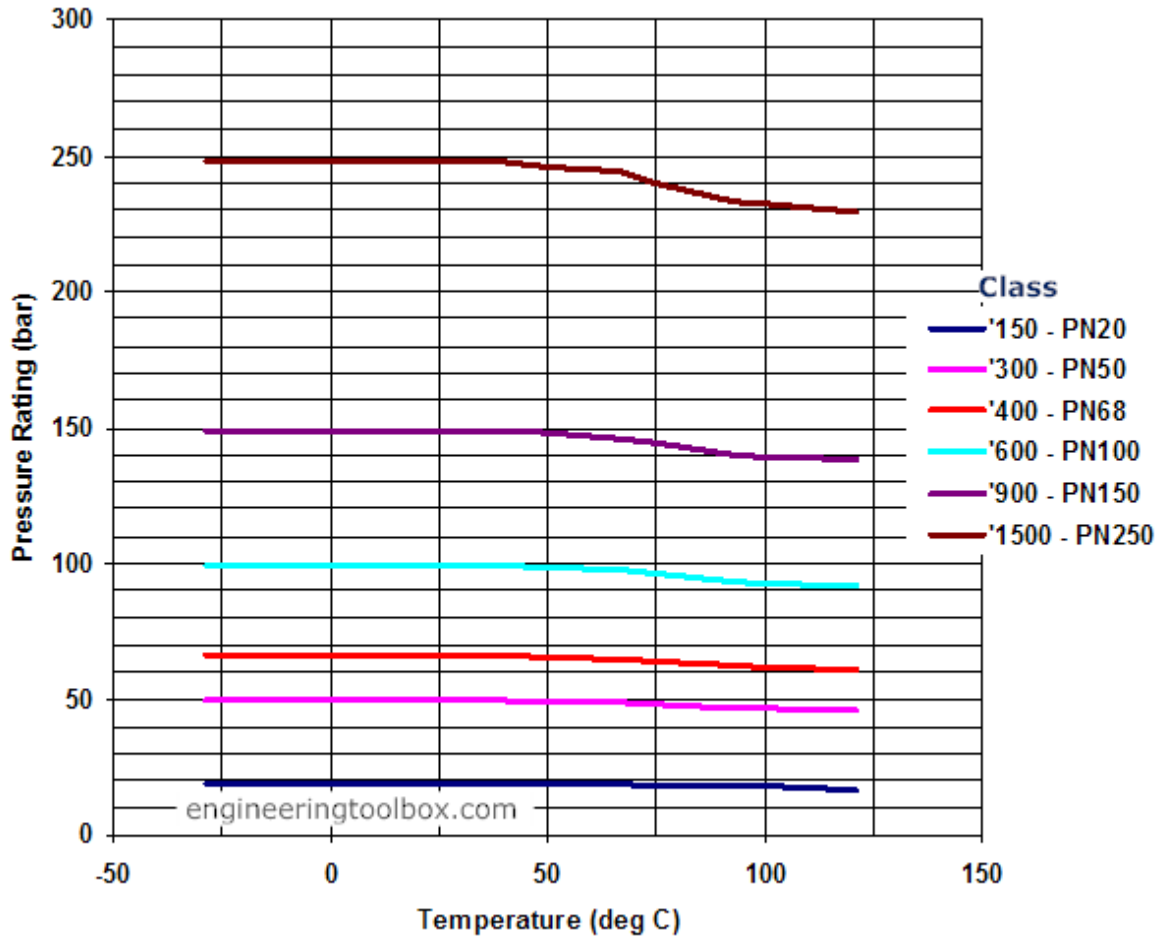
- [\*\*Valves - Temperature and Pressure Ratings\*\*](#)
- **Temperature and pressure ratings for valves according [\*\*API 6D\*\*](#)**
  - Sponsored Links
- Temperature and pressure ratings for valves according [API 6D "Pipeline Valves, Gate, Plug, Ball and Check Valves"](#):

- Pressure Rating - psig



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- Pressure Rating - bar



## [Pressure-Temperature Ratings ASTM A216 Valves](#)

### **Pressure and temperature ratings for Cast Carbon Steel Valves**

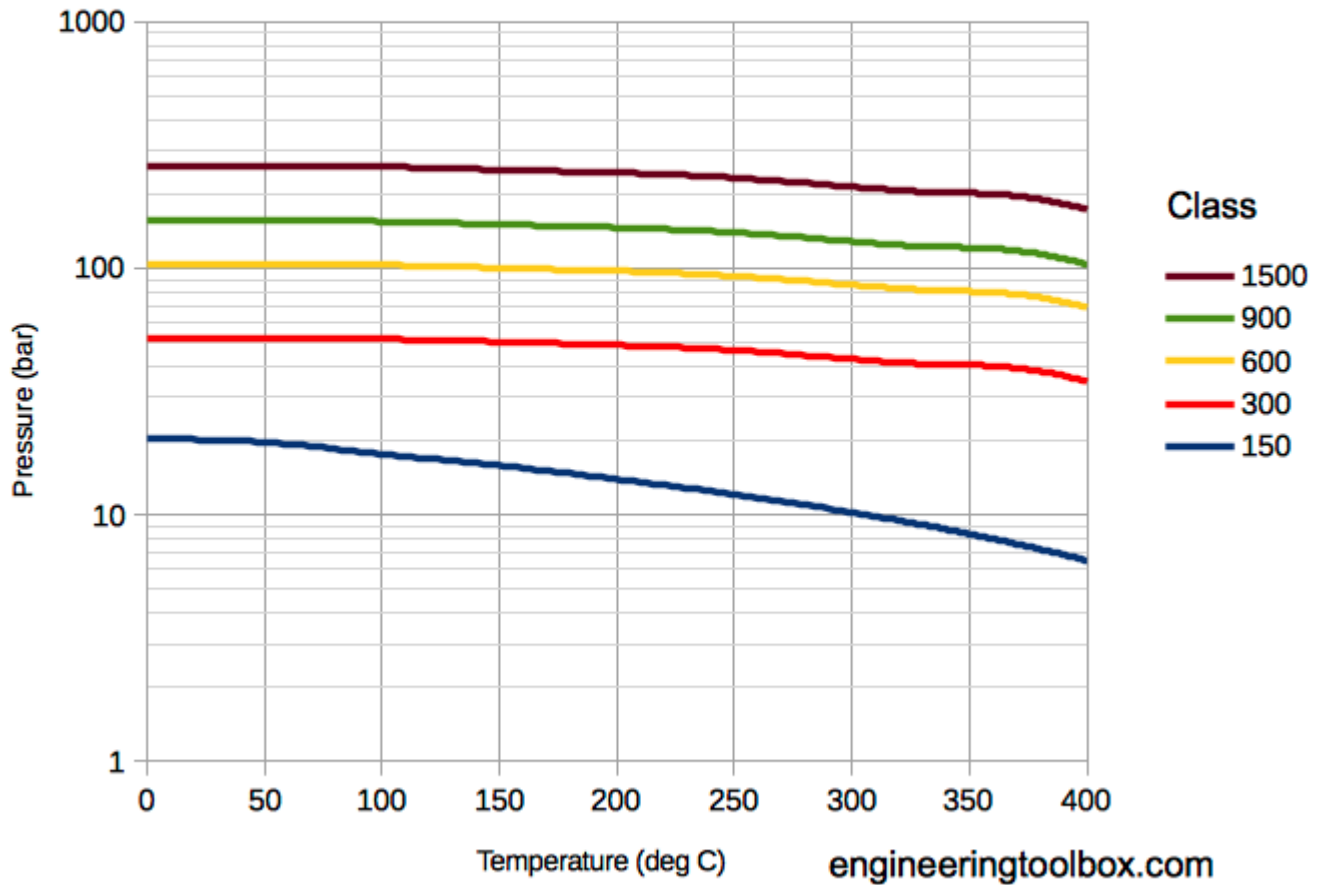
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Pressure and temperature ratings for standard Class ASTM A216 Cast Carbon Steel Grade WCC Valves in accordance with ASME B16.34.

Metric Units

## Pressure-Temperature Ratings

Standard Class ASTM A216 Grade WCC Valves



Imperial Units

## Pressure-Temperature Ratings

Standard Class ASTM A216 Grade WCC Valves

