
Applicable Standards for Gate Valve (Design & Manufacturing)

Below is a list of some of the applicable standards for ball valves. This list is not exhaustive and for your information only.

The list will provide the user with a checklist to verify the customer requirements and your design comply to various standards.

API Standards

Standard	Description
API 600	This standard covers the design, materials, dimensions, testing, and inspection requirements for steel gate valves for the petroleum and natural gas industries.
API 603	This standard covers the design, materials, dimensions, testing, and inspection requirements for corrosion-resistant, bolted-bonnet gate valves for the petroleum and natural gas industries.
API 6D	This standard covers the requirements for pipeline valves, including gate valves, with flanged or butt-welding ends, used for transportation and distribution of petroleum and gas.
API 6DSS	This standard covers the requirements for pipeline valves, including gate valves, made of stainless steel, with flanged or butt-welding ends, used for transportation and distribution of petroleum and gas.
API 6FA	This standard covers the requirements for fire test for valves, including gate valves, used in petroleum and natural gas industry.
API 607	This standard covers the requirements for fire test for soft-seated quarter-turn valves, including gate valves.

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ASME Standards

Standard	Description
ASME B16.34	This standard covers the design, materials, dimensions, testing, and inspection requirements for steel gate valves for use in the process, petroleum refining, and related industries.
ASME B16.5	This standard covers the dimensions and pressure-temperature ratings for steel pipe flanges and flanged fittings, including those used for gate valves.
ASME B16.10	This standard covers the face-to-face and end-to-end dimensions for valves, including gate valves, used in pipeline applications.
ASME B16.25	This standard covers the butt-welding ends for steel pipes and fittings, including those used for gate valves.
ASME B16.47	This standard covers the dimensions, pressure-temperature ratings, and materials for large diameter steel flanges, including those used for gate valves.
ASME B16.48	This standard covers the dimensions and pressure-temperature ratings for line blanks used in piping systems, including those used with gate valves.
ASME BPVC Section III	This standard covers the design, fabrication, and testing requirements for nuclear power plant components, including gate valves.

ISO Standards

Standard	Description
ISO 10434	This International Standard covers the requirements for steel gate, globe, and check valves used for petroleum, petrochemical, and natural gas industries.
ISO 14313	This International Standard covers the requirements for steel valves used in pipeline transportation systems for the petroleum and natural gas industries.
ISO 15761	This International Standard covers the requirements for metal-seated gate valves used in general purpose applications.
ISO 5208	This International Standard covers the pressure testing of industrial valves, including gate valves.
ISO 5752	This International Standard covers the face-to-face and centre-to-face dimensions of metal valves, including gate valves, for use in flanged pipe systems.

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British Standards

Standard	Description
BS 5163	This British standard covers the requirements for resilient-seated gate valves with flanged or socket-welding ends for use in water supply and sewage systems.
BS EN 1171	This European standard covers the requirements for metal-seated gate valves with flanged, threaded, or socket-welding ends for use in water supply systems.
BS EN 11074	This European standard covers the requirements for resilient-seated gate valves with flanged, threaded, or socket-welding ends for use in water supply systems.
BS 5150	This British standard covers the requirements for metallic gate valves with flanged or screwed ends for use in general industrial applications.
BS EN 1984	This European standard covers the requirements for industrial valves, including gate valves, used in petroleum, petrochemical, and natural gas industries.
BS EN 12516	This European standard covers the requirements for industrial valves, including gate valves, used in general applications.
BS EN ISO 10434	This European standard covers the requirements for pipeline valves, including gate valves, used in petroleum, petrochemical, and natural gas industries.

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MSS Standards

Standard	Description
MSS SP-44	This standard cover steel pipeline flanges for use in water supply, petroleum, and natural gas industries, including those used for gate valves.
MSS SP-45	This standard covers the requirements for bore and face-to-face dimensions for gate valves used in water supply, petroleum, and natural gas industries.
MSS SP-70	This standard covers the requirements for cast iron gate valves with flanged or threaded ends for use in water supply and sewage systems.
MSS SP-71	This standard covers the requirements for bellows seal gate valves with flanged or butt-welding ends for use in the petroleum, petrochemical, and natural gas industries.
MSS SP-80	This standard covers the requirements for bronze gate, globe, angle, and check valves for use in general service applications.
MSS SP-81	This standard covers the requirements for stainless steel, bonnetless, flanged gate valves for use in the chemical and petroleum industries.
MSS SP-85	This standard covers the requirements for gray iron gate valves with flanged or threaded ends for use in water supply and sewage systems.

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German Standards

Standard	Description
DIN 3352-2	This German standard covers the requirements for metal-seated gate valves with flanged or butt-welding ends for use in water supply and sewage systems.
DIN EN 1171	This European standard covers the requirements for metal-seated gate valves with flanged, threaded, or socket-welding ends for use in water supply systems.
DIN EN 1074	This European standard covers the requirements for resilient-seated gate valves with flanged, threaded, or socket-welding ends for use in water supply systems.
DIN 3352-1	This German standard covers the requirements for resilient-seated gate valves with flanged or butt-welding ends for use in water supply and sewage systems.
DIN EN 1984	This European standard covers the requirements for industrial valves, including gate valves, used in petroleum, petrochemical, and natural gas industries.
DIN EN 12516	This European standard covers the requirements for industrial valves, including gate valves, used in general applications.
DIN EN ISO 10434	This European standard covers the requirements for pipeline valves, including gate valves, used in petroleum, petrochemical, and natural gas industries.

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Japanese Standards

Standard	Description
JIS B2031	This Japanese standard covers the requirements for cast iron gate valves with flanged or threaded ends for use in general purpose applications.
JIS B2064	This Japanese standard covers the requirements for bronze gate valves with flanged or threaded ends for use in general purpose applications.
JIS B2071	This Japanese standard covers the requirements for cast steel gate valves with flanged, butt-welding, or socket-welding ends for use in general purpose applications.
JIS B2073	This Japanese standard covers the requirements for stainless steel gate valves with flanged or butt-welding ends for use in general purpose applications.
JIS B2074	This Japanese standard covers the requirements for copper alloy gate valves with flanged, threaded, or soldered ends for use in general purpose applications.
JIS B2201	This Japanese standard covers the requirements for pipe flanges for use with industrial valves, including gate valves.

Indian Standards

Standard	Description
IS 14846	This Indian standard covers the requirements for metal-seated gate valves with flanged or butt-welding ends for use in water supply and sewage systems.
IS 14845	This Indian standard covers the requirements for resilient-seated gate valves with flanged or butt-welding ends for use in water supply and sewage systems.
IS 778	This Indian standard covers the requirements for cast iron gate valves with flanged or screwed ends for use in general purpose applications.
IS 2906	This Indian standard covers the requirements for bronze gate valves with flanged or screwed ends for use in general purpose applications.
IS 2901	This Indian standard covers the requirements for cast steel gate valves with flanged or butt-welding ends for use in general purpose applications.
IS 780	This Indian standard covers the requirements for copper alloy gate valves with flanged or screwed ends for use in general purpose applications.