

VALVE INDUSTRY STANDARDS

The design and production of forged steel valves, fittings and unions is governed by codes and standards that cover material, design, product dimension, inspection, examination, testing, pressure/temperature ratings, procedure and safety.

Safety guidelines and procedural standards are issued by ANSI, MSS and the American Society of Mechanical Engineers (ASME).

Listed below is a partial list of codes and standards that directly affect the design and production of forged steel valves, fittings and unions:

ASME BOILER & VESSEL CODE

- Section I – Power Boilers
- Section II – Material Specifications
- Section III – Nuclear Power Plant Components
- Section V – Non-destructive Examination
- Section VIII – Pressure Vessels
- Section IX – Welding and Brazing Qualifications

VALVE STANDARDS

- ASME/ANSI B16.34 – Valves – Flanged, Threaded and Welding Ends
- API-600 – Steel Gate Valves, Flanged, and Buttwelding Ends
- API-602 – Compact Steel Gate Valves
- API-606 – Compact Steel Gate Valves (Extended Body)
- MSS-SP-84 – Steel Valves – Socket Welding and Threaded Ends
- MSS-SP-99 – Instrument Valves

FLANGES, FITTINGS AND UNIONS

- ASME/ANSI B16.5 – Pipe Flanges and Flanged Fittings
- ANSI B16.11 – Forged Steel Fittings, Socket Welding and Threaded Ends
- MSS-SP-83 – Steel Pipe Unions, Socket Welding and Threaded Ends
- MSS-SP-79 – Socket Welding Reducer Inserts

VALVE, FITTING, FLANGE AND UNION DETAILS

- ANSI/ASME B1.20.1 – Pipe Threads, General Purpose
- ANSI/ASME B16.10 – Face-to-Face and End-to-End Dimensions of Ferrous Valves
- ANSI/ASME B16.20 – Ring Joint Gaskets and Grooves for Steel Pipe Flanges
- ANSI/ASME B16.20 – Ring Joint Gaskets and Grooves for Steel Pipe Flanges
- ANSI/ASME B16.25 – Buttwelding Ends

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