

Codes and Standards Reference

ASME:

B1.20.1 - Pipe Threads, General Purpose (Inch)
B16.5 - Pipe Flanges & Flanged Fittings
B16.9 - Factory - Made Wrought Butt-Welding Fittings
B16.11 - Forged Fittings, Socket-Welding & Threaded
B16.25 - Butt-Welding Ends
B16.47 - Large Diameter Steel, Flanges (NPS 26 Thru NPS 60)
B31.1 - Power Piping
B31.3 - Process Piping
B31.4 - Pipeline Transportation Systems for Liquid Hydrocarbons and other Liquids.
B31.8 - Gas Transmission & Distribution Piping Systems
B31.9 - Building Services Piping
B36.19M - Stainless Steel Pipe

PFI: Pipe Fabrication Institute - Engineering & Fabrication Standards

ES-1 - Internal Machining Backing Rings
ES-16 - Access Holes, Bosses, Plugs, for RT. Inspection of Pipe Welds
ES-36 - Branch Reinforcement
ES-42 - PMI STD.

NACE STD:

MRO175 Material Requirements (For Resistance To Sulfide Stress Cracking. BHN / HRC)

ASTM International:

A262-Intergranular Test, Austenitic Stainless
A275-Magnetic Particle Exam.
A370-Mechanical (Tensile) Test Steel Products
A388-Ultrasonic Exam: Steel Forgings
A751-Chemical Analysis of Steel Products
E-10-Test Brinell. Hardness
E23-Standard Notch Bar Impact Test
E112-Test-Grain Size
E165-Liquid Penetrant Exam.
E562-Test Method Determining Volume Fraction By Manual Point Count

MSS - STD :

SP-25 - Marking Valves, Fittings, Flanges, & Unions
SP-42 - Stainless Butt-Weld Fittings
SP-44 - Steel Pipeline Flanges 12" - 60" F36 - F70
SP-75 - High-Test Butt-Weld Fittings
SP-79 - Socket-Welding Reducer Inserts
SP-83 - Class 3000 Steel Pipe Unions
SP-95 - Swages & Bull Plugs
SP-97 - Branch Outlet Fittings, S/W, Thr'd, B/W

Wrought - Metal in the solid condition that is formed to a desired shape by working (Rolling, Extruding, Forging, etc.) usually at an elevated temperature.

Forge - Plastically deforming metal, usually hot, into desired shapes with compressive force, with or without dies.

Cast Component (Casting) - Metal that is obtained at or near its finished shaped by solidification of molten metals on a mold.