

# INTERNATIONAL CODES & STANDARDS



## ASTM Standards

<b>A105</b>	Carbon Steel Forgings for Pipe applications
<b>A106</b>	Seamless Killed Carbon Steel Pipe for High Temperature service
<b>A182</b>	Standard Specification for Forged or Rolled Alloy Steel Pipe Flanges
<b>A193</b>	Alloy Steel and Stainless Steel Bolting Materials for High Temperature service
<b>A194</b>	Carbon and Alloy Steel Nuts for Bolts
<b>A216</b>	Specification for Carbon Steel Castings
<b>A234</b>	Seamless and Welded Carbon Steel and Alloy Steel Pipe Fittings
<b>A240</b>	Stainless Steel Plate
<b>A269</b>	Standard Specification for Seamless and Welded Austenitic Stainless Steel Tubing
<b>A312</b>	Standard Specification for Seamless and Welded Austenitic Stainless Steel Pipes
<b>A320</b>	Alloy Steel Bolting Materials for Low Temperature service
<b>A333</b>	Standard Specification for Seamless and Welded Steel Pipe for Low Temperature Service
<b>A335</b>	Seamless Ferritic Alloy Steel Pipe for HT service
<b>A350</b>	Standard Specification for Carbon and Low Alloy Steel Forgings, requiring Notch Toughness Test
<b>A352</b>	Steel Castings Ferritic and Martensitic for Pressure containing parts suitable for Low Temperature service.
<b>A358</b>	Standard Specification for Electric Fusion Welded Chromium-Nickel Alloy Steel Pipe for High Temperature Service
<b>A387</b>	Pressure Vessel Plates, Alloy Steel, Chromium-Molybdenum
<b>A403</b>	Wrought Austenitic Stainless Steel Pipe Fittings
<b>A420</b>	Standard Specification for Pipe Fittings of Wrought Carbon Steel and Alloy Steel for Low Temperature Service
<b>B466</b>	Standard Specification for Seamless Copper Nickel Pipe
<b>B467</b>	Standard Specification for Welded Copper Nickel Pipe
<b>A516</b>	Impact Tested Carbon Steel Plate
<b>A671</b>	Standard Specification for Electric Fusion Welded Steel Pipe for Atmospheric and Lower Temperatures
<b>A691</b>	Carbon and Alloy Steel Pipe for HP service at High Temperatures
<b>A790</b>	Standard Specification for Seamless and Welded Ferritic/Austenitic Stainless Steel Pipes
<b>A815</b>	Standard Specification for Wrought Ferritic, Ferritic/Austenitic, and Martensitic Stainless Steel Pipe Fittings
<b>A928</b>	Standard Specification for Ferritic/Austenitic (Duplex) Stainless Steel Pipe Electric Fusion Welded with addition of Filler Metal
<b>A453</b>	Standard Specification for High Temperature Bolting materials, with expansion coefficients comparable to Austenitic Stainless Steel
<b>B88</b>	Standard Specification for Copper Alloy
<b>B148</b>	Standard Specification for Aluminium-Bronze Sand Castings
<b>B265</b>	Specification for Titanium and Titanium Alloy Strip Sheet and Plate
<b>B337</b>	Specification for Seamless and Welded Titanium Alloy Pipe
<b>B348</b>	Specification for Titanium and Titanium Alloy Bars
<b>B363</b>	Specification for Seamless and Unalloyed Titanium and Titanium Alloy Welding Fittings
<b>B367</b>	Specification for Titanium and Titanium Alloy Forgings
<b>B381</b>	Specification for Titanium and Titanium Alloy Castings
<b>D2310</b>	Classification for Machine Made Fibreglass Pipe
<b>D2996</b>	Specification for Filament Wound Fibreglass Pipe

## API Standards

<b>API 5L</b>	Specification for Seamless and Welded Steel Line Pipe
<b>API 590</b>	Specification for Fig 8 Blinds (refer to ASME B16.48)
<b>API 594</b>	Specification for Wafer Type Check Valves
<b>API 598</b>	Specification for Valves Inspection and Test
<b>API 600</b>	Specification for Cast Gate Valves
<b>API 601</b>	Superseded by ASME B16.20
<b>API 602</b>	Specification for Forged Gate Valves
<b>API 607</b>	Fire testing for Soft Seated Quarter Turn Valves
<b>API 609</b>	Specification for High Performance Butterfly Valves
<b>API 6FA</b>	Specification for Fire Testing of Valves
<b>API 6D</b>	Specification for Gate, Globe and Check Valves for Pipelines
<b>API 15LR</b>	Specification for Low pressure Fibreglass Line Pipe and Fittings

## ASME Standards

<b>B1.1</b>	Unified Inch Screw Threads
<b>B1.2</b>	Gauges and Gauging for Unified Inch Screw Threads
<b>B1.20.1</b>	Pipe Threads
<b>B16.5</b>	Steel Pipe Flanges and Pipe Fittings (up to 24")
<b>B16.9</b>	Butt Weld Fittings
<b>B16.10</b>	Face to Face and End to End dimensions of Valves
<b>B16.11</b>	Socket Weld and Screwed Fittings
<b>B16.20</b>	Metallic Gaskets for Pipe Flanges - Ring Joint, Spiral Wound and Jacketed
<b>B16.21</b>	Non Metallic Gaskets for Pipe Flanges
<b>B16.24</b>	Cast Copper Alloy Pipe Flanges and Flanged Fittings
<b>B16.28</b>	Wrought Butt Welding Short Radius Elbows & Returns
<b>B16.25</b>	Butt Welding Ends
<b>B16.34</b>	Steel Valves
<b>B16.36</b>	Orifice Flanges
<b>B16.47</b>	Large Diameter Steel Flanges (26" and larger)
<b>B16.48</b>	Steel Line Blanks
<b>B18.2.1</b>	Square and Hexagonal Bolts and Screws
<b>B18.2.2</b>	Square and Hexagonal Nuts
<b>B31.1</b>	Power Piping
<b>B31.3</b>	Process Piping
<b>B31.4</b>	Pipeline Transportation Systems for Liquid Hydrocarbons and other Liquids
<b>B31.8</b>	Gas Transmission and Distribution Piping Systems
<b>B36.10</b>	Welded and Seamless Wrought Steel Pipe
<b>B36.19M</b>	Stainless Steel Dimensions
<b>B46.1</b>	Surface Texture

## MSS-SP Standards

<b>MSS-SP-6</b>	Standard finishes for Contact Faces of Pipe Flanges and Connecting-Ends Flanges of Valves and Fittings
<b>MSS-SP-9</b>	Spot Facing of Bronze, Iron and Steel Flanges
<b>MSS-SP-25</b>	Standard Marking requirements for Equipment
<b>MSS-SP-42</b>	Corrosion Resistant Gate, Globe, Angle and Check Valves with Flanged and Butt Weld Ends
<b>MSS-SP-43</b>	Dimensional Tolerances for Stainless Steel and Nickel Alloy Butt Weld Fittings
<b>MSS-SP-45</b>	By-pass and Drain Connection Standard
<b>MSS-SP-61</b>	Pressure Testing of Steel Valves
<b>MSS-SP-70</b>	Cast Iron Gate Valves Flanged and Threaded Ends
<b>MSS-SP-72</b>	Ball Valves with Flanged or Butt-Weld Ends for General service
<b>MSS-SP-75</b>	Specification for High Test Wrought Butt-Weld Fittings
<b>MSS-SP-80</b>	Bronze Gate, Globe, Angle and Check Valves
<b>MSS-SP-95</b>	Swage(d) Nipples
<b>MSS-SP-97</b>	Integrally Reinforced Forged Branch Outlet Fittings

## NACE Standards

NACE MR-01-75 / ISO 15156:2003 Petroleum and Natural Gas industries materials for use in H<sub>2</sub>S-containing environments in Oil & Gas production

<b>TM 02-84</b>	Evaluation of Pipeline and Pressure Vessel Steels for resistance to Hydrogen Induced Cracking
<b>TM 01-77</b>	Laboratory Testing of material for resistance to Sulphide Stress Cracking in H <sub>2</sub> S environments

## EEMUA Standards

<b>EEMUA 144</b>	Offshore Specification for 90-10 Cu-Ni Tubing
<b>EEMUA 145</b>	Offshore Specification for 90-10 Cu-Ni Flanges
<b>EEMUA 146</b>	Offshore Specification for 90-10 Cu-Ni Fittings

## British Standards

<b>BS 1133</b>	Protective Coating Standard
<b>BS 1873</b>	Specification for Cast Globe Valves
<b>BS 1868</b>	Specification for Cast Check Valves
<b>BS 5155</b>	Specification for Lined Butterfly Valves
<b>BS 5351</b>	Specification for Quarter Turn Ball Valves
<b>BS 5352</b>	Specification for Forged Globe and Check Valves
<b>BS 5353</b>	Specification for Steel Plug Valves
<b>BS 6755-2</b>	Testing of Valves-Specification for fire type testing requirements