

via G.Byron 4, 16145 Genova, Italy Tel.: +39 010 310 6483 www.reyitalia.com VAT no 03726440104 Fax.: +39 010 86 31300 rey.italia@reyitalia.com

Main Specifications of common use for piping products

MSS - Manufacturers Standardization Society of the Valve and Fitting Industry

MSS SP 25	Standard marking system for valves, fittings, flanges and unions.
MSS SP 43	Wrought stainless steel butt-welding fittings
MSS SP 44	Steel pipeline flanges
MSS SP 75	Specification for high test wrought butt-welding fittings

BSI - British Standard Institution

BS3059	Steel boiler and superheater tubes
BS3074	Nickel and nickel alloys: Seamless tubes
BS3605	Austenitic stainless steel pipes and tubes for pressure purposes
BS3606	Steel tubes for heat exchangers

D33000	Steel tubes for heat exchangers
BS3799	Steel pipe fittings, screwed and socket welding for the petroleum industry
	(interchangeable with ANSI B16.11)

ASME - American Society of Mechanical Engineers

SA335	Smls Chrome Moly Pipe - grades P11, P22, P5, P9 - ½" to 24"
SA234	Smls Chrome Moly BW fittings - grades WP11, WP22, WP5, WP9 - 1/2" to 24" -
	Elbow, Tee Caps, Conc. And Ecc. Reducers
SA182	Chrome Moly Forged - grades F11, F22, F5, F9
	- flanges (2" to 24"-lbs 150, 300, 600, 900, 1500-WN, SO,BL, SW)
	- fittings (1/2" to 24" - Elbows, Tee, Cap, Coupling, Inserts, Unions)
	- valves 1/2" to 2"
A217	Chrome Moly Cast Valves - grades C5, C12

ANSI - American national standard for piping, pipe flanges, fittings and

- valves
- B16.5 Pipe flanges and flanged fittings
- B16.9 Factory made wrought steel butt-welding fittings
- B16.10 Face to face and end-to-end dimensions of valves
- B16.11 Forged fittings, socket welding and threaded
- B16.25 Butt-welding ends
- B16.28 Wrought steel butt-welding short radius elbows and returns
- B16.34 Valves-flanged, threaded and welding ends
- B16.36 Orifice flanges
- B16.47 Large diameter steel flanges (NPS 26 through NPS 60)
- B1.20.1 Pipe threads, general purpose (inch)



via G.Byron 4, 16145 Genova, Italy Tel.: +39 010 310 6483 www.reyitalia.com VAT no 03726440104 Fax.: +39 010 86 31300 rey.italia@reyitalia.com

API - American Petroleum Institute

- API 5L Specification for line pipe
- API 590 Steel line blanks
- API 6A Wellhead equipments
- API 605 Large diameters carbon steel flanges

AWWA - American Water Works Association

AWWA C207 Steel pipe flanges for waterworks service - size 4 in. through 144 in.

NACE - National Association of Corrosion Engineering

MR0175-90 Standard material requirements, sulphide stress cracking resistant - metallic materials for oilfield equipment

ASTM - American Society for Testing and Materials

Pipe, steel black and hot dipped, zinc coated, welded and seamless
Forging, carbon steel, for piping components
Seamless carbon steel pipe for high temperature service
Forged or rolled alloy steel pipe flanges, forged fittings and valves and parts for
high temperature service
Alloy steel and stainless steel bolting materials for high temperature services
Seamless ferritic and austenitic alloy-steel boiler, superheater and heat
exchanger tubes
Piping fittings of wrought carbon steel and alloy steel for moderate and elevated
temperatures
Heat resistant Chromium and Chromium-Nickel stainless steel plate, sheet and
strip for pressure vessels
Seamless and welded ferritic and martensitic stainless steel tubing for general
service
Seamless and welded austenitic stainless steel tubing for general service
Seamless austenitic chromium-nickel steel tubes for refinery service
Seamless and welded austenitic stainless steel pipes
Alloy steel bolting materials for low temperature service
Seamless and welded pipe for low temperature service
Seamless ferrite alloy steel pipe for high temperature service
Forging, carbon and alloy steel, requiring notch toughness testing for piping
component
Electric fusion welded (EFW) austenitic Chromium-Nickel alloy steel pipe for high
temperature service
Seamless and welded unalloyed titanium and titanium alloy fittings
Factory made wrought Nickel and Nickel-alloy fittings
Seamless austenitic steel pipe for high-temperature central-station service
Wrought austenitic stainless steel piping fittings
Welded large diameter austenitic stainless steel pipe for corrosive or high
temperature service
Piping fittings of wrought carbon steel and alloy steel for low temperatures
General requirements for carbon, ferrite alloy, and austenitic alloy steel tubes
Seamless stainless steel mechanical tubing



via G.Byron 4, 16145 Genova, Italy Tel.: +39 010 310 6483 www.reyitalia.com

VAT no 03726440104 Fax.: +39 010 86 31300 rey.italia@reyitalia.com

A515	Pressure vessel plates, carbon steel, for intermediate and higher temperature service
A516	Pressure vessel plates, carbon steel, for moderate and lower temperature service
A530	General requirements for specialised carbon and alloy steel pipe
A671	Electric fusion welded (EFW) steel pipe for atmospheric and lower temperatures
A672	Electric fusion welded (EFW) steel pipe for high-pressure service at moderate
-	temperature
A778	Welded un-annealed austenitic stainless steel tubular products
A789	Seamless and welded ferritic-austenitic stainless steel tubing for general service
A790	Seamless and welded ferrite-austenitic stainless steel pipe
A813	Single or double welded austenitic stainless steel pipes
A815	Wrought ferrite-austenitic and martensitic stainless steel piping fittings
	······································
B161	Nickel seamless pipe and tube (UNS N02200, N02201)
B163	Seamless nickel and nickel alloy condenser and heat exchanger tubes(UNS
	N02200, N04400, N06600, N08800)
B165	Nickel-copper alloy (UNS N04400)
B167	Nickel-chromium-iron alloys (UNS N06600, N06601 and N06690), seamless pipe
	and tube
B337	Seamless and welded titanium and titanium alloy pipe
B338	Seamless and welded titanium and titanium alloy tubes for condenser and heat
	exchangers
B407	Nickel-iron-chromium alloy (UNS N08800, N08810, N08811) seamless pipe and
	tube
B423	Nickel-iron-chromium-molybdenum-copper alloys (UNS N08825), pipe and tube
B444	Nickel-chromium-molybdenum-columbium alloys (UNS N06625), pipe and tube
B464	Welded UNS N08020, N08026 and N08024 alloy pipes
B514	Welded Nickel-Iron-Chromium alloy pipe (UNS N08800 and N08810)
B515	Welded UNS N08800 and N08810 alloy tubes
B517	Welded Nickel-Iron-Chromium alloy pipe (UNS N06600)
B673	Welded pipes UNS N08904 and N08367
B619	Welded Nickel and Nickel-Cobalt pipes
B622	Seamless nickel and nickel-cobalt alloy pipe and tube (UNS N06455, N06059,
	N10276, n06002)
B675	Welded pipes UNS N08366 and N08367
B668	Seamless tubes (UNS N08028)
B677	Seamless pipe and tube (UNS N08904, N08925, 08926)
B705	Nickel-alloy welded pipes (UNS N06625 and N08825)
B710	Nickel-Iron-Chromium-Silicon alloy welded pipes
B729	Seamless pipe and tube (UNS N08020, N08026, N08024)

DIN - Standards

2462	Seamless stainless steel tubes (dimensions and weights)
11850	Stainless steel tubing for the beverage industry and dairy farm equipment and
	machinery (Dimensions and materials)
17456	Seamless circular austenitic stainless steel tubes for general service
17458	Seamless circular austenitic stainless steel tubes subject t special requirements
17459	Seamless austenitic high temperature steel tubes



via G.Byron 4, 16145 Genova, Italy Tel.: +39 010 310 6483 www.reyitalia.com VAT no 03726440104 Fax.: +39 010 86 31300 rey.italia@reyitalia.com

- 17740 Nickel for semi-finished products
- 17742 Nickel-chromium alloy
- 17743 Nickel-copper alloy
- 17744 Nickel-molybdenum-chromium alloys
- 17745 Nickel-copper alloy with iron
- 17751 Nickel and nickel-alloy tubes special properties
- 17850 Titanium
- 17861 Seamless circular titanium and titanium alloy tubes
- 28180 Seamless steel tubes for heat exchangers
- 59755 Nickel and nickel alloy tubes dimensions

JIS - Japanese Standards

G3459 Stainless steel pipe

- G3463 Stainless steel boiler and heat exchanger tubes
- H4631 Titanium pipes and tubes for ordinary piping

NF - Standards

A49-117	Seamless ferritic and austenitic stainless steel tubes for general service
A49-214	Seamless austenitic high strength high-temperature steel tubes for elevated temperatures
A49-217	Seamless ferritic, austenitic and ferrite-austenitic stainless steel tubes for heat exchangers

- A49-218 Seamless austenitic stainless steel tubes for furnace construction
- A49-317 Seamles austenitic mechanical tubing

GOST - Standards

- 9940 Seamless stainless steel tubes, hot finished
- 9941 Seamless stainless steel tubes, cold and hot finished

These information have to be intended as a general guide. Therefore their use is always at user's responsibility. Rey Italia makes no warranty of any kind with respect to the subject matter of accuracy of the information.