

Pipe Specifications Frequently Used in Industrial PVF Sales

CARBON STEEL

Carbon steel weld.....ASTM A234
 Steel butt-weld fittings.....ASME/ANSI B16.9
 Butt-weld ends.....ASME/ANSI B16.25
 Butt-weld SR elbows and returns.....ASME/ANSI B16.28

Carbon steel forgings for piping applications.....ASTM A105
 Pipe flanges and flanged fittings.....ASME/ANSI B16.5
 Pipe threads, general purpose.....ASME/ANSI B1.20.1

Carbon steel forgings for piping applications.....ASTM A105
 Forged steel fittings, SW and threaded.....ASME/ANSI B16.11
 Pipe threads, general purpose.....ASME/ANSI B1.20.1

Cupola malleable iron.....ASTM A197
 Malleable iron threaded fittings.....ASME/ANSI B16.3
 Ferrous plugs, bushings, locknuts.....ASME/ANSI B16.14
 Pipe threads, general purpose.....ASME/ANSI B1.20.1

Welded and seamless carbon and stainless steel pipe
 nipple.....ASTM A106
 Pipe threads, general purpose.....ASME/ANSI B1.20.1

Seamless carbon steel pipe for high temperature service.....ASTM A106
 General requirements for specialized carbon and alloy
 steel pipe.....ASTM A530
 Welded and seamless steel pipe.....ASME/ANSI B36.10

Steel pipe, welded and seamless.....ASTM A179
 Welded and seamless steel pipe.....ASME/ANSI B36.10

Seamless cold-drawn, low-carbon steel heat exchanger
 and condenser tubes.....ASTM A179
 Seamless medium-carbon steel boiler and
 superheater tubes.....ASTM A210

Carbon steel castings suitable for fusion welding.....ASTM A216
 Steel gate valve, flanged and butt-weld.....API 600
 Valves, flanged, threaded and welding end.....ASME/ANSI B16.34
 Face-to-face and end-to-end Dimensions of valves...ASME/ANSI B16.10
 Pipe threads, general purpose.....ASME/ANSI B1.20.1

Carbon steel forgings for piping applications.....ASTM A105
 Compact steel gate valves.....API 602
 Valves, flanged, threaded and weld ends.....ASME/ANSI B16.34
 Pipe threads, general purpose.....ASME/ANSI B1.20.1
 Forged steel fittings, socket- welding and threaded...ASME/ANSI B16.11

STAINLESS STEEL

Butt-Weld Fittings

Wrought Stainless weld fittings.....ASTM A403
 Corrosion-resistant weld fittings.....MSS SP-43
 Steel butt-weld fittings.....ASME/ANSI B16.9
 Butt-weld ends.....ASME/ANSI 16.25
 Butt-weld short-radius elbows and returns.....ASME/ANSI B16.28
 As-welded stainless weld fittings.....ASTM A774

Forged Flanges

Forged alloy-steel pipe flanges, forged, fittings, valves.....ASTM A182
 Pipe flanges and flanged fittings.....ASME/ANSI B16.5
 Pipe threads, general purpose.....ASME/ANSI B1.20.1

Forged Fittings

Forged alloy-steel pipe flanges, forged fittings, valves.....ASTM A182
 Stainless bars and shapes for use in boilers and pressure vessels.....ASTM A479
 Forged steel fittings, socket-weld and threaded.....ASME/ANSI B16.11
 Pipe threads, general purpose.....ASME/ANSI B1.20.1

Cast Threaded Fittings

Austenitic castings for pressure.....ASTM A351
 Corrosion-resistant pipe fittings, threaded and socket-weld,
 Class 150 and 1000.....MSS SP-114
 Ferrous pipe plugs, bushings, locknuts.....ASME B16.14
 Pipe threads, general purpose.....ASME/ANSI B1.20.1

Nipples

Welded and seamless carbon and stainless steel pipe nipple.....ASTM A733
 Pipe threads, general purpose.....ASME/ANSI B1.20.1

Seamless Pipe

Seamless stainless pipe for high temperature service.....ASTM A376
 General requirements for specialized carbon and alloy steel pipe.....ASTM 530

Welded and Seamless Pipe

Seamless and welded stainless pipe.....ASTM A312
 Seamless and welded steel pipe.....ASME/ANSI B36.10
 Stainless steel pipe.....ASME/ANSI B36.19
 Welded, unannealed stainless steel tubular products.....ASTM A778

Welded and Seamless Tubing

Seamless stainless boiler and heat exchanger tube.....ASTM A213
 Welded stainless superheater and heat exchanger tube.....ASTM A249
 Seamless and welded stainless tubing for general service.....ASTM A269
 General requirement for carbon, ferritic and austenitic alloy tube.....ASTM A450
 Seamless and welded stainless tubing (small dia.)for general service.....ASTM A632

Cast Valves

Austenitic castings for pressure.....ASTM A351
 Class 150, cast corrosion-resistant flanged gate valves.....API 603
 Valves, flanged, threaded and weld-end.....ASME/ANSI B16.34
 Face-to-face and end-to-end dimensions of valves.....ASME/ANSI B16.10
 Pipe threads, general purpose.....ASME/ANSI 1.20.1

Forged Valves

Forged stainless pipe flanges, forged fittings and valves for high
 temperatures.....ASTM A182
 Compact steel gate valves.....API 602
 Valves, flanged, threaded and welding ends.....ASME/ANSI B16.34
 Pipe threads, general purpose.....ASME/ANSI B1.20.1
 Forged steel fittings, socket- weld and threaded.....ASME/ANSI B16.11

NOTE: (a) All carbon and stainless threaded flanges, pipe, valves and fittings must conform to ASME/ANSI B1.20.1; all socket-weld ends must conform to ASME/ANSI B16.11.
 (b) Spec MSS SP-25 is a standard marking system that applies to all flanges, valves, unions and fittings.