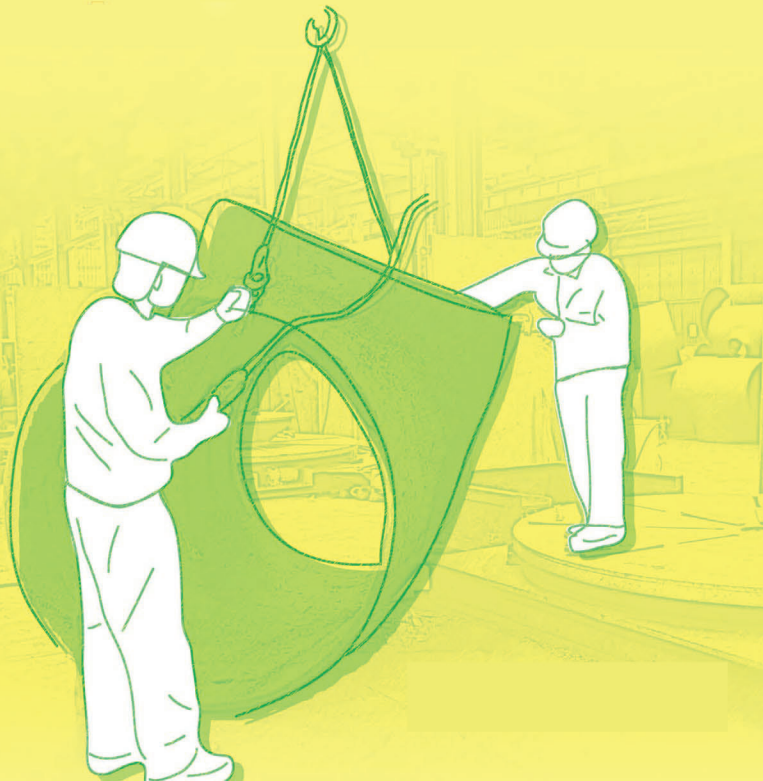


## Butt Weld Pipe Fitting and Forged Steel Fittings



# Emirerri Steel

Manufacturer Pvt Ltd



Dear valuable Customer,



EMIRERRI (Previous Mahadev) was established in 2004 and started as a Butt Weld Pipe Fittings manufacturing company from the beginning EMIRERRI has grown up rapidly to be global fitting supplier based on strong financial structure, large volume of inventory/stock, biggest manufacturing facilities accumulated technologies and experiences.

We have supplied our products to the world wide major customers comprehensive industrial area such as Oil & Gas, Chemical & Petrochemical, Water treatment, Nuclear & Power Plant, Offshore platform & Shipbuilding. Our products are applicable for any kinds of serve operating condition such as high pressure and high temperature or cryogenic condition.

I am always doing my best to bring up EMIRERRI to be the world's leading company through drastic investment and R & D activates in the belief that the best quality is the solid bastion of business survival and customers satisfaction.

In the future, EMIRERRI will provide more value to the customers based on my customer-first policy & quality-first policy.

Sincerely yours.

MANAGING DIRECTOR

Material

Ferrous Material				
Material Classification			Comparison as nations	
Large	Middle	Small	ASTM (U.S.A)	
			Designation	Identification
Ferrous (Base Mat'l:Fe)	Carbon Steel	Ambient and Higher Temperature Service	A234	WPB
				WPC
		Low Temperature Service	A420	WPL3
				WPL6
				WPL9
	Alloy Steel (Cr ≥ 1%)	Low Alloy (1% ≤ Cr ≤ 9%)	A234	WP1
				WP12
				WP11
				WP22
				WP5
				WP23
				WP9
				WP91
				WP92
		Martensitic Stainless Steel	A815	WP410
				WP430
		Austenitic Stainless Steel	A403	WP304/L
				WP316/L
				WP317/L
				WP321/H
				WP347/H
		Super Austenitic Stainless Steel	A403	S31254
				904L
		Ferritic / Austenitic (Duplex / Super Duplex)	A815	S31803
				S32750
				S32760

• Applicable Code/Standard : ASTM Part A, Latest Edition,  
• Non Registered materials on ASTM Latest Edition.

Non-Ferrous Material Comparison		
Material Classification	Trade Mark	UNS NO.
Non-Ferrous (Base Mat'l : Ni)	Inconel 600	N06600
	Inconel 690	N06690
	Inconel 800H / 800HT	N08810 / N08811
	Inconel 625	N06625
	Incoloy 825	N08825
	Hastelloy B2	N10665
	Hastelloy C276	N10276
	Hastelloy C22	N06022
	Incoloy 020	N08020
	Monel 400	N04400
Non-Ferrous (Base Mat'l : Cu)	Monel K500	N05500
	Cu-Ni 70/30	C71500
	Cu-Ni 90/10	C70600

• Applicable Code/Standard : ASTM Part B, Latest Edition.

Specification

KS : KOREAN INDUSTRIAL STANDARDS

KS B 1522	Steel Butt Welding Pipe Fittings for Ordinary use and Fuel Gas.
KS B 1541	Steel Butt Welding Pipe Fittings.
KS B 1542	Steel Socket Welding Pipe Fittings.
KS B 1543	Steel Plate Butt Welding Pipe Fittings.

JIS : JAPANESE INDUSTRIAL STANDARDS

JIS B 2311	Steel Butt Welding Pipe Fittings for Ordinary use.
JIS B 2312	Steel Butt Welding Pipe Fittings.
JIS B 2313	Steel Plate Butt Welding Pipe Fittings.
JIS B 2316	Steel Socket Welding Pipe Fittings.

ASTM : AMERICAN SOCIETY FOR TESTING AND MATERIALS

ASTM A 105	Carbon Steel Forgings for Piping Applications
ASTM A 182	Forged or Rolled Alloy Steel Pipe Flanges, Forged Fittings, and Valves and Parts for high Temperature Service
ASTM A 234	Piping Fittings of Wrought Carbon Steel and Alloy Steel for Moderate and High Temperature Service
ASTM A 350	Carbon and Low-Alloy Steel Forgings, Requiring Notch Toughness Testing for Piping Components
ASTM A 403	Wrought Austenitic Stainless Steel Piping Fittings
ASTM A 420	Piping Fittings of Wrought Carbon Steel and Alloy Steel for Low-Temperature Service
ASTM A 694	Carbon and Alloy Steel Forgings for Pipe Flanges, Fittings, Valves, and Parts for High-Pressure Transmission Service
ASTM A 815	Wrought Ferritic, Ferritic/Austenitic, and Martensitic Stainless Steel Piping Fittings
ASTM A 860	Wrought High-Strength Low-Alloy Steel Butt-Welding Fittings
ASTM B 366	Factory-Made Wrought Nickel and Nickel Alloy Fittings

MSS : MANUFACTURERS STANDARDIZATION SOCIETY OF THE VALVE AND FITTINGS INDUSTRY

MSS SP-25	Standard Marketing System for Valves, Fittings, Flanges and Unions.
MSS SP-43	Wrought Stainless Steel Butt Welding Fittings.
MSS SP-44	Standard for Steel Pipe Line Flanges.
MSS SP-75	Specification for High Test Wrought Butt Welding Fittings.
MSS SP-79	Socket Welding Reducer Inserts.
MSS SP-83	Carbon Steel Pipe Union Socket welding and Threaded.
MSS SP-87	Factory-Made Butt Welding Fittings for Class 1 Nuclear Piping Applications.
MSS SP-95	Swage(d) Nipples and Bull Plugs.
MSS SP-97	Integrally Reinforced Forged Branch Outlet Fittings-socket Welding, Threaded and Butt Welding Ends.

ASME : AMERICAN SOCIETY OF MECHANICAL ENGINEERS  
ASME : ASME BOILER AND PRESSURE VESSEL CODE AN INTERNATIONAL CODE

ASME B 16.5	Pipe Flanges and Flanged Fittings.
ASME B 16.9	Factory Made Wrought Steel Butt Welding Fittings.
ASME B 16.11	Forged Fittings, Socket welding and Threaded
ASME B 16.25	Butt Welding Ends.
ASME B 36.10	Welded and Seamless Wrought Steel Pipe.
ASME B 36.19	Stainless Steel Pipe.
ASME B31.1	Power piping.
ASME B31.3	Process piping.
ASME SECTION II	Materials.
ASME SECTION III	Rules for Construction of Nuclear Facility Components.
ASME SECTION V	Nondestructive Examination.
ASME SECTION VIII	Rule for Construction of Pressure Vessels.
ASME SECTION IX	Welding and Brazing Qualifications.

API : AMERICAN PETROLEUM INSTITUTE

API 5L	Line Pipe.
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Wrought Steel Butt Weld Pipe Fittings

•Carbon & Alloy Steel

A long, smooth 90-degree elbow fitting.	A long, smooth 180-degree elbow fitting.	A concentric reducer fitting.	A concentric reducer fitting.
90° Elbow (Long)	180° Elbow (Long)	Reducer (Concentric)	Reducer (Concentric)
A short, smooth 90-degree elbow fitting.	A short, smooth 180-degree elbow fitting.	An eccentric reducer fitting.	An eccentric reducer fitting.
90° Elbow (Short)	180° Elbow (Short)	Reducer (Eccentric)	Reducer (Eccentric)
A long, smooth 45-degree elbow fitting.	A straight tee fitting.	A reducing tee fitting.	A pipe cap.
45° Elbow (Long)	Tee (Straight)	Tee (Reducing)	Cap

•Stainless Steel (6Mo / Duplex / Super Duplex)

A long, smooth 90-degree elbow fitting.	A concentric reducer fitting.	A straight tee fitting.
90° Elbow (Long)	Reducer (Concentric)	Tee (Straight)
A short, smooth 90-degree elbow fitting.	An eccentric reducer fitting.	A reducing tee fitting.
90° Elbow (Short)	Reducer (Eccentric)	Tee (Reducing)
A long, smooth 45-degree elbow fitting.	A lap joint stub end fitting.	A pipe cap.
45° Elbow (Long)	Lap Joint Stub End	Cap

Forged Steel Fittings

•Socket Welding Fittings

A 90-degree socket welding elbow.	A 45-degree socket welding elbow.	A socket welding tee.	A socket welding cross.
90° Elbow	45° Elbow	Tee	Cross
A socket welding coupling.	A socket welding reducer.	A socket welding cap.	A socket welding union.
Coupling	Reducer	Cap	Union

•Threaded Fittings

A threaded 90-degree elbow.	A threaded 45-degree elbow.	A threaded tee.	A threaded cross.
90° Elbow	45° Elbow	Tee	Cross
A threaded coupling.	A threaded half coupling.	A threaded cap.	A threaded union.
Coupling	Half Coupling	Cap	Union
A hex head plug.	A square head plug.	A round head plug.	A hex head bushing.
Hex. Head Plug	S.Q. Head Plug	Round Head Plug	Hex. Head Bushing
A threaded boss.	A threaded insert.	A threaded nipple.	A swage nipple.
Boss	Insert	Nipple	Swage Nipple

•Outlets

A socket outlet.	A welding outlet.	A thread outlet.	A nipple outlet.
Socket-Outlet	Welding-Outlet	Thread-Outlet	Nipple-Outlet



# Emirerri Steel

Manufacturer Pvt Ltd

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