

Gaskets

Metallic Gaskets	G1
Ring-Joint	G2
Spiral Wound	G3
Ring-Joint	
Spiral Wound	

Nuts & Bolts

Bolts & Screws	H1
Nuts	H2
Washers	H2
Specification Standards	

www.steelcoiran.com

Introduction

Inception



Introduction

Inception

Steel Co. Ltd. was founded in 1994 by a group of engineers with decades of technical experience in the Oil, Gas, Petrochemical and Power Generation Industries with utmost Quality, Reliability and Latest Technology. Since then, it has developed as a leading dynamic business-oriented supply and consulting firm in the field of – specially – stainless steel products, piping materials and equipments for Gas, Oil, Petrochemical and Refineries Plants, Power Generation Industries and Pharmaceutical and Foods Products Companies all around our country, Iran.

With the help of fully experienced managers, technical and commercial staff with minimum 20 years of professional work background, Steel Co. is proud to enter and get involved in piping materials supply activities for lots of projects in different plants. Steel Co. supplies some piping materials such as flanges and fittings, and equipments such as pressure vessels, drums, storage tanks and other relevant parts and accessories those use in pipeline, refinery petrochemical plants, as well as occasional equipment and instruments.

Introduction

Goals & Strategies



Goals & Strategies

Our goal is to be able to meet our client's demands for any type of piping products, and together with our partners develop products that could improve performance and reduce costs. A large stock of commodity items is always kept at our modern and well equipped warehouses. From our stock of pipes, valves, fittings and flanges in grades being used in the oil, gas and petrochemical industry, the normal day-to-day demands can be fulfilled with a high grade of service. All items are tested and certified to the most stringent specifications and can be ready for shipment within hours. In addition to the following list, we also have experience and knowledge. We have partnership with our sister-companies worldwide. Our sister-companies hold extensive stocks of piping materials, which enable us to inter-trade on urgent deliveries. We have a well developed system for handling all logistic aspects on large projects and traditional stock holding. All orders, for standard and non-standard products, are processed by our high standard system.

Introduction

Human Resource | Business Development



Human Resource

We believe human resources are a major part of investment in a company, base on this philosophy; we try to maintain a team of highly experienced, efficient with extensive knowledge of quality, economy and industry. We see our employees not just human resources but as strategic partners.

Business Development

Establishing long-term relationship with customers has always been a major objective reflected in our approach to business. By studying the mentioned industries and plants carefully and securing a thorough understanding of our customers' needs, we have brought a fresh and innovative approach to the market to exceed the expectation of every client. Therefore, after years of experience in various fields, and identifying the different needs of different plants, we decided to improve our services to broad of range of clients with engineering and procurement needs in the different fields of industry.

Introduction

Business Development | Technology

Then, in addition to what was-mentioned above, Steel Co. expand the scope of its activities to

A) Stocking of different materials in field of project package specialist for line pipe, fittings, flanges, valves, instrumentation and control systems.

B) Providing of repairing services in static and rotary equipments specially all kind of pumps and valves with the facilities of Nowadays, Steel Co. is one of the major and largest stockiest with the facilities of

- About 16000m² area.
- About 4000m² warehousing.
- More than 3 Stores in Tehran and outskirt.
- About 500m² Office in Tehran, GHODS City, and Hamburg by the organization is headed by the MD and supported by various other departments like Marketing, Import & Export, QA & QC, Dispatch and Accounts.
- Holding of over thousands tones of pipes and fittings at any given point of times.
- Stocking of valves and actuators in sizes from ½” to 72”.
- More than 20 professional personnel with nearly 10 years of experience in each positions and field.
- Lots of modern and efficient repairing, testing and inspection equipments and devices.

Technology

Steel Co. determines to provide necessary infrastructure for transferring technical knowledge to the country along with internationally reputable companies related to Oil, Gas and Petrochemical industries, link the international industries with the international standards by training human resources, providing a secure ground along with investment attractions for reputable international manufacturers.

Introduction

Services | Quality Assurance



Services

We specialize in engineering procurement services and supply industrial materials. We work Under a Quality Control system and are a revered firm active in the field of

- Refineries
- Mining Industries
- Power Generation Industries
- Petrochemical Plants
- Gas Compressor Stations
- Pipelines
- Oil and Gas Industries
- Pharmaceutical and Foods Products Companies

Quality Assurance

QA/QC is applied to all our services. Our department reviews and inspects all documents and materials to ensure optimal services for our clients. The main components of our Procurement Quality Assurance are the following:

- Proper Main Quality Program
- Inspection Program and Quality Audit
- Details of Measuring Tools and Test Equipments
- Control of Records
- Design Control
- Material Control
- Materials Traceability
- Manufacturing Release
- Personnel, Progress, Equipments and Procedures Qualification Approvals
- Final Acceptance Inspection
- Mandatory Hold Points
- Packing and Pre-shipment

Introduction

Standards

Standards

The design, manufacturing and supplied items of our group, as requested by our customers are issued in accordance with International Governing Regulations, Codes and Standards set by the:



-American Society of Mechanical Engineers (ASME)



-American Petroleum Institute (API)



-American Society for Testing and Materials (ASTM)



-International Standards Organization (ISO)



-Manufacturers Standardization Society of the Valve and Fitting Industry (MSS)



-National Fire Protection Association (NFPA)



-European Standard (EN)



-British Standard (BS)



-Standards of the Tubular Exchanger Manufacturer Association (TEMA)



-American Welding Society (AWS)



-American Water Works Association (AWWA)



-Expansion Joint Manufacturers Association (EJMA)



-International Electro-technical Commission (IEC)



-Iranian Gas Standards (IGS)



-Iranian Petroleum Standards (IPS)



-National Association of Corrosion Engineers (NACE)



-National Electrical Manufacturers Association (NEMA)



-The Society for Protective Coating (SSPC)

VALVES

Ball Valves



Steel Co. is one of the leading suppliers/ stockiest and distributor of industrial valves in the Middle East. Steel Co. can offer a comprehensive range of Gate, Globe, Check, Ball, Butterfly, Diaphragm, Plug and Control Valves in forged and cast steel according to the main International Standards. The material is sourced from Quality Approved suppliers around the world. Steel Co. commands strong buying power, giving it access to world's most renowned valve manufacturers/ Stockiest at reasonable prices.

We have developed reputation for being able to source material. Our market consists of end-users, contractors, traders in: oil, gas, petrochemical, power generation, marine and water industries. Our office and warehouse facilities are strategically located in Tehran in order to serve our customers with maximum efficiency.

Valves

ALL IN STOCK

Ball Valves

Ball Valves are the most common Valve within the Oil & Gas business. The main function of a Ball Valve is sealing of the flow. A Ball Valve should not be used for throttling (semi open / closed position). This will cause damage to the ball due to erosion on the ball itself. There are five general body styles of ball valves: single body, three-piece body, split body, top entry, and welded. The difference is based on how the pieces of the valve are- especially the casing that contains the ball itself - are manufactured and assembled. The valve operation is the same in each case. In addition, there are different styles related to the bore of the ball mechanism itself.



VALVES

Ball Valves



In addition to our Trunnion Mounted and Floating Ball Valves, we can offer **Top Entry Ball Valves, Fully Welded Ball Valves, Cryogenic Service, Spring Return Levers, weld in pipe pups with or without Actuators** in below ranges:

Size	¼" through 46"
Class	150, 300, 600, 800, 900, 1500, 2500, 4500
Materials	<p>Cast: WCB, LCC, CF8M, CF8, CF8C, WC6, WC9, C5, C12, A890 Gr. 4A and 6A</p> <p>Forged: A105, LF2, F316, F304, F321, F347, F11, F5, F22, F51, F55, F53</p> <p>Trims: As per request</p>
Ends	NPT, BSPT, BSPP, SW, RF, RTJ, Butt Weld, Hub Ends

VALVES

Gate Valves



b Gate Valves

Gate Valves are Isolation Valves with generally two seats and a gate moving up and down by use of a stem operated either by Wheel, Gear or Actuator. Gate Valves are always bi-directional. Gate Valves look similar to Globe Valves from the outside due to the fact that they often are produced from the same body and it could be a challenge to recognize a Gate Valve from a Globe Valve. However the Globe Valves should be easily recognized since it always has an arrow on the body which is grinded off on a Gate Valve. This arrow also defines the flow direction of the Globe Valves. Gate Valves are mainly used for isolation. Also Well head valves are always Gate Valves and Gate Valves could be damaged if it is operated during production or when there is a differential pressure over the Gate Valves.

As well as our inventory of Forged Gate Valves and Cast Steel Gate Valves, we can accommodate special requirements such as Pressure Seal Bonnet, Bellow Seal, Cryogenic Service and Extended Body. We can perform modifications such as fit Bypasses, Extended Hand Wheel, and Position Indicators etc. We can provide special testing to all our products if required.

Size	¼" through 46"
Class	150, 300, 600, 800, 900, 1500, 2500, 4500
Materials	Cast: WCB, LCC, CF8M, CF8, CF8C, WC6, WC9, C5, C12, A890 Gr4A, Gr6A Forged: A105, LF2, F316, F304, F321, F347, F11, F5, F22, F51, F55, F53 Trims: As per request
Ends	NPT, BSPT, BSPP, SW, RF, RTJ, Butt Weld, Hub Ends



VALVES

Globe Valves



C Globe Valves

Globe Valves are available in a lot of different options, and it can be a challenge to recognize Globe Valves from Gate Valves from the outside design. As mentioned under Gate Valves description there should be an arrow on the Globe Valves body. This arrow is grinded off on Gate Valves body. This arrow also defines the flow direction of the Globe Valves. Globe Valves are designed to be operated with differential pressure over the valve and while there is process flow in the line, it might be used as a control valve. Generally there are three kind of Globe Valves in operation as Control Globe Valve, Chock Globe Valve, and Flow Reducer Globe Valve

Alternatively, to Forged Globe Valves and Cast Steel Globe Valves, we can also offer special requirements such as **Y Type Globes, Angle Globes, Pressure Seal Bonnet, Bellow Seal, Needle Disc, Parabolic Disc, S.D.N.R. Globes**, etc. We can perform **NDE testing X-Rays, Ultrasonic and 3.2 testing** to all our products if required.

Size	¼" through 20"
Class	150, 300, 600, 800, 900, 1500, 2500, 4500
Materials	Cast: WCB, LCC, CF8M, CF8, CF8C, WC6, WC9, C5, C12, A890 Gr4A, Gr6A Forged: A105, LF2, F316, F304, F321, F347, F11, F5, F22, F51, F55, F53 Trims: As per request
Ends	NPT, BSPT, BSPP, SW, RF, RTJ, Butt Weld, Hub En

VALVES

Butterfly Valves



d Butterfly Valves

Butterfly Valves are designed to be operated with differential pressure over the valve and while there is process flow in the line, and it might be used as a rough control Valve. Butterfly Valves are 90 deg (quarter turn) operated valves. By a quarter turn rotating of a disc placed in the center of the Butterfly Valve it is either fully open or fully closed. The most common Butterfly Valve is the rubber-lined valve with wafer connection. This type of Butterfly Valve is a weight and space saving valve who allows on/off process control. To avoid erosion ,a Butterfly Valve should always be operated either fully open or fully closed. Any other position will over time cause damage on the disc. By checking a disconnected disc, you can easily see if the Butterfly Valve has been partly open/closed. Butterfly Valves are supplied with three different connections as Wafer type Butterfly Valve, Lug type Butterfly Valve, Flange type Butterfly Valve. We stock a wide range of Butterfly Valves for various applications in its program. Through the simple construction and the great variation in materials, Rubber Lined, PTFE (TEFLON) Lined, High Performance with Double Eccentric offset Disc or Triple Eccentric offset Disc, PTFE or Metal to Metal Seated, Class V and Class VI shutoff, Fire-safe level or Gear Operated or with Actuators. NBR Seat, VITON Seat, EPDM Seat, ANSI End Connection or all other types.

VALVES

Butterfly Valves

Size	DN 25 to 1200
Class	PN 6, 10 and 16, or 150# and 300# (Higher Pressure Rate: PN 100, Class 600#)
Temp. Range	-45° to +260°C (Lower and Higher Temperature Rate: -196° to +650°C)
Liner Material:	EPDM, PTFE, NBR
Materials	WCB, A105N, LF2, Cast Iron, Ductile Iron, F22, F11, WC6, WC5, Alloy 20 (A20), CN7M, Monel, Duplex (F51) and Supper Duplex, LF2 (Low Temperature), LCB, 304, CF8, CF8M, 316, 304L, 316L, CF3, CF3M, CF8G, 347, CE8M, S31803, SAF2205, F5, Aluminum, Aluminum Bronze and Trim Types: 410SS (F6, F6A) ASTM A182 316L (316LSS), ASTM A182 316 (316SS), ASTM A182 304L (304LSS), ASTM A182 304 (304SS) VITON, Bronze, Aluminum Bronze, Alloy 20, Duplex, Stellite HF (Hard Face) NACE MR-01-75
Operator:	Lever, Worm Gearbox, Pneumatic & Electric and Hydraulic Actuator

VALVES

Check Valves



e Check Valves

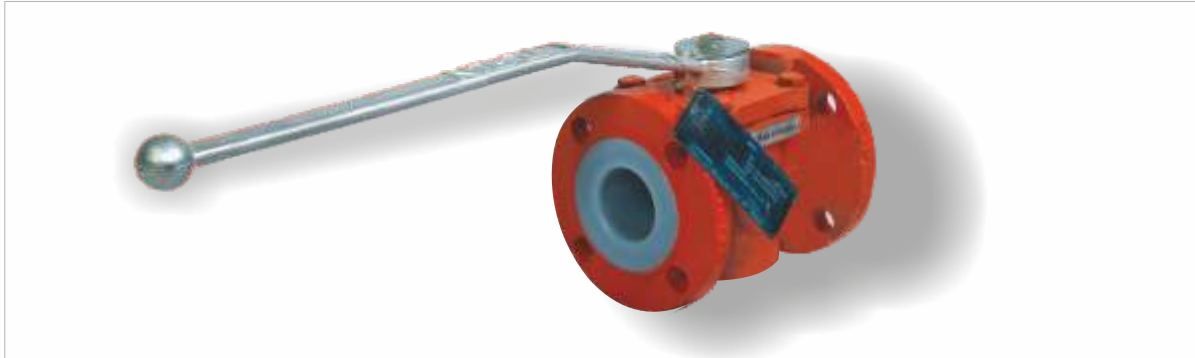
Non-return Check Valve or one-way Check Valve is a mechanical device, a valve, which normally allows fluid (liquid or gas) to flow only through it in one direction only. The main mission of a Check Valve is to avoid back pressure in the process (it avoids switching direction of the flow). A Check Valve can also be used for isolation purpose. In addition, there will normally be regulations telling how many and in which location Check Valves are to be installed in the process. As for most valves, there are many different designs of Check Valves. The basic design is a Duo Check Valve with two discs mounted on a hinge pin in the center of the Check Valve. The Check Valve has a standby closed position with springs pushing the discs towards the seats. These valves are designed for installation on a horizontal line where the hinge pin is placed in a vertical position. To reduce space and weight these Check Valves are often delivered as wafer valves. Other types of Check Valves are Swinging Check Valve, Tilting Disc Check Valve, Piston Check Valve, Non slam Check Valve, Needle Check Valve, and Nozzle Check Valve.

To complement our existing stock of Piston Check and Swing Check Valves, we can also offer special requirements and modifications such as **Pressure Seal Cover, Outside Lever and Weight, Ball Check Valves**, etc. We can also accommodate **third Party Witness Inspection and Testing** to all our products if required.

Size	¼" through 20"
Class	150, 300, 600, 800, 900, 1500, 2500, 4500
Materials	Cast: WCB, LCC, CF8M, CF8, CF8C, WC6, WC9, C5, C12, A890 Gr4A, Gr6A Forged: A105, LF2, F316, F304, F321, F347, F11, F5, F22, F51, F55, F53 Trims: As per request
Ends	NPT, BSPT, BSPP, SW, RF, RTJ, Butt Weld, Hub Ends

VALVES

Plug Valves



f Plug Valves

Plug Valve is the oldest known kind of valve. It is a commend assumption that the plug in the plug valve is taper (conic). The fact is that there is a huge verity of the inside construction of a plug valve. The plug valve is a 90 deg (quarter turn) operated valve. The main purpose of a plug valve is isolation, and it will than either be fully open or fully closed. Also the secondary function of the valve is regulation which is achieved by tapering the valve bore. This will reduce the aperture of the plug.



The range of Plug Valves can be listed as Oil production, Water injection, Mud systems, Shut down valve on production, Water injection and test manifold, Between valve tree and separator, Change-over valve between filters, and metering stations. The options of Plug Valves also can be listed as Cylindrical, Cylindrical without seats (integrated sets in the valve body), Full bore "through conduit", Venture with reduced bore Steel Co. stocks a wide range of plug valves such as Lubricated and Non-Lubricated. Our plug valves are NACE compliant upon request and are available with a wide variety of sealants to work in many applications. These valves are used widely in many services including gas, natural gas, hydrocarbons, steam, water, and wastewater.

Size	1" through 24"
Class	125# through 2500#
Materials	WCB, A105N, LF2, Cast Iron, Ductile Iron, F22, F11, WC6, WC5, Alloy 20 (A20), CN7M, Monel, Duplex (F51) and Supper Duplex, LF2 (Low Temperature), LCB, 304, CF8, CF8M, 316, 304L, 316L, CF3, CF3M, CF8G, 347, CE8M, S31803, SAF2205,F5, Aluminum, Aluminum Bronze and Trim Types: 410SS (F6, F6A) ASTM A182 316L (316LSS), ASTM A182 316 (316SS), ASTM A182 304L (304LSS), ASTM A182 304 (304SS) VITON, Bronze, Aluminum Bronze, Alloy 20, Duplex, Stellite HF (Hard Face) NACE MR-01-75

VALVES

Diaphragm Valves



9 Diaphragm Valves

Originally, the diaphragm valve was developed for use in industrial applications. Later on, the design was adapted to be used in the bio-pharmaceutical industry by using compliant materials that can withstand sanitizing and sterilizing methods. There are two main categories of diaphragm valves: one type seals over a "weir" (saddle) and the other (sometimes called a "full bore or straight-way" valve) seals over a seat. The weir or saddle type is the most common in process applications and the seat-type is more commonly used in slurry applications to reduce blocking issues but exists also as a process valve.

Diaphragm valves can be manual or automated. Their application is generally as shut-off valves in process systems within the industrial, food and beverage, pharmaceutical and biotech industries. The older generation of these valves is not suited for regulating and controlling process flows, however newer developments in this area have successfully tackled this problem. Depending on temperature, pressure and chemical resistance, one of the following is used:

- Unlined type
- Rubber lined type: NR/Hard Rubber/Ebonite, EPDM BR/Soft rubber
- Fluorine plastic lined type: FEP, PFA, PO, PP (polypropylene)

Steel Co. stocks a wide range of Diaphragm valves which are suitable for abrasive, corrosive and thick coagulating fluid, slurries, and a wide variety of suspended solid materials.

Size	¼" through 16"
Pressure Range	Vacuum to 230 Psi
Temperature Range	-50°F to +350°F
Material	Cast Iron, Ductile Iron, Aluminum, Aluminum Bronze, Stainless Steel and Alloy 20
Lining	Hard Rubber, Soft Rubber, Neoprene, Hypalon, Glass, Polypropylene, Halar, Tefzel, PVDF, FEP, PTFE, ETFE, and PFA, Butyl, VITON, TFM

VALVES

Diaphragm Valves | Knife Gate Valves

h Knife Gate Valves

Knife Gate Valve is used to slice through sludge or sewerage and a gate is used for normal positive shut off. It is a gate valve design that is distinguished from the standard design by the use of a simple metal plate for the gate and the absence of a bonnet; also called a slide valve. Knife gate valve is a uni-directional or bi-directional valve designed for general industrial service applications. Knife gate valves are used for pressure tight isolation of solid-liquid mixes in water and waste water treatment plants and pumping stations, paper and pulp plants, power plants and mining industry. A knife-gate valve is a valve that controls your flow by lowering a metal wall (the knife) down across the flow path. Knife-gate valves are suitable for large flow applications, particularly those with suspended solids that could be caught between the disc and the seat or wrapped around the disc in butterfly valves. Our Stocked Valve has the knife gate valve you need. With more than 1000 knife gate valves in stock and multiple models to choose from, Our Valve is ready to help you.

Our knife gate valves are available out of stock with hand wheels, gears, chain wheels, as well as air cylinders. Our valves are stocked in CF8 (304 SS), CF8M (316 SS), CG8M (317 SS), WCB steel, and Ductile iron. We stock knife gates in different sizes.

Our entire knife gate has a solid one-piece cast body with integrally cast gate jams and guides. They are full port and designed with blow out proof packing glands and nylock locking nuts. Our valves are designed and tested to Tappi TIS 405-8 and MSS-SP81 standards; our full lug pattern flanges conform to ASME B16.5.



VALVES

Strainers



■ Strainers

As the name implies, a strainer helps screen out particulate matter in a piping system. Although steam traps get most of the glory, strainers also play an important role in the efficient operation of a well-designed system.

Steel Co. has a large inventory of Y, WYE and T type strainers in cast iron, cast steel, and stainless steel in stock for immediate delivery.

Cast Iron	2" to 14" 125#
WCB steel flanged strainers	1" to 18" 150# 1" to 12" 300# 1" to 8" 600#
WCB socket weld and threaded	1/2" to 2" 600#
316 Stainless steel flanged	1" to 12" 150# 1" to 8" 300# 1" to 6" 600#
316 Stainless steel threaded	1/4" to 2" 800 WOG

VALVES

Others



Others

In addition to complement the existing stock, and in order to meet the needs and requirements of our customers, Steel Co. is stocking some other equipment tailored to our career such as below:

Control Valves

Pressure Safety Relief Valve

Needle Valves

Actuators

- Rack & Pinion Pneumatic Actuators
- Scotch & Yoke Pneumatic Actuators
- Electrical Actuators
- Gas over Oil Actuators
- Air Filter Regulators
- Limit Switches
- Solenoid Valves

Wellhead Valves

- Choke Manifolds
- Kill Manifolds
- Blow-Out Preventers
- Wellhead Control Equipments
- Veda Surface Conventional Wellhead System
- Gate Valves
- Choke Valves
- Check Valves
- Surface Safety Valves
- Wellhead Control Systems



VALVES

Others





Pipes & Tubes



Steel Co stocks extensive range of seamless and welded pipes and tubes in all grades. We stock Carbon Steel, stainless steel, duplex, Ductile Iron pipes, etc in varied sizes. Pipes supplied by us are industry standard approved and certified. Have major applications in Oil, Gas, Petrochemical, Power and Desalination, Civil Construction, Ship Building, Marine, Food, Dairy and other associated industries. Few of the major brands we represent are Arcelor Mittal, Sumitomo, Tenaris, Benteler, Jazeera Steel, Hyundai HYSCO, Arabian Pipes Company, Sandvik, Froch, etc.

Pipes & Tubes

Description	Material	Grades	Size Range and Usage
Carbon and Alloy Steel	ASTM A53	A & B	Carbon Steel Seamless and Welded (FBW & ERW) Pipe for General Usage, as Black and Hot-Dipped Galvanized Steel Pipe in NPS 1/8 to 26 inches inclusive with nominal wall thickness as given in table 2 of Standard ASME B36.10
	ASTM A106	A & B & C	Seamless Steel Pipe for High Temperature Services in NPS 1/8 to 26 inches inclusive with nominal wall thickness as given in table 2 of Standard ASME B36.10
	ASTM A179	--	Seamless Cold Drawn Low Carbon Steel Tube for Heat-Exchanger, Condenser and similar heat transfer apparatus, in NPS 1/8 to 3 inches (in outside diameter)
	ASTM A200	T4 & T5 & T7 & T9 & T11 & T21 & T22 & T91	Several Grades of min. Wall Thickness Chromium-Molybdenum and Chromium-Molybdenum-Silicon, Seamless Hot-Finished and Cold-Finished, intermediate Alloy Steel Tubes, for use in carrying fluids at elevated temperature and pressure in various types of heaters, in which the tubes may be subjected to a furnace temperature higher than that of the contained fluid, in NPS 2 to 9 inches and minimum wall thickness of 5.59
	ASTM A209	T1 & T1a & T1b	Several Grades of minimum wall thickness, Seamless, Carbon-Molybdenum Alloy Steel, Boiler and Super-heater Tubes, in NPS 1/2 to 5 inches and minimum wall thickness of 0.9 to 12.7 mm
	ASTM A213	Ferritic Steel: T2 & T5 & T5b & T5C & T9 & T11 & T12 & T21 & T22 & T23 & T24 & T91 & T92 & T122 & T911 & 18Cr-2Mo Austenitic Steel: TP201 & TP202 & TP304 & TP304H & TP304N & TP304LN & TP304L & TP309Cb & TP309H & TP309HCb & TP309S & TP310Cb & TP310H & TP310HCb & TP310HCbN & TP310S & TP316 & TP316H & TP316L & TP316N & TP316LN & TP317 & TP321 & TP321H & TP347 & TP347H & TP347LN & TP347HFG & TP348 & TP348H & XM-15 & XM-19	Covers minimum wall thickness Seamless Ferritic and Austenitic Alloy Steel Boiler, Super-Heater, and Heat-Exchanger Tubes, in NPS 1/8 (in inside diameter) to 5 (in outside diameter) inches and 0.4 to 12.7 mm, inclusive, in minimum wall thickness
	ASTM A333	1 & 3 & 4 & 6 & 7 & 8 & 9 & 10 & 11	Seamless and Welded Carbon and Alloy Steel Pipe for Low Temperature Services, in NPS 1/8 to 48 inches and Various Schedules
	ASTM A335	P1 & P2 & P5 & P5b & P5c & P9 & P11 & P12 & P15 & P21 & P22 & P91 & P92	Seamless Ferritic Alloy Steel Pipe for High Temperature Services in Various Sizes and Schedules
	ASTM 691		Carbon and Alloy Steel Pipe, Electric-Fusion Welded for High Pressure Services at High Temperature in 16 inches and larger and Wall Thickness up to 75mm inclusive

Pipes & Tubes



Description	Material	Grades	Size Range and Usage
Stainless Steel Pipes	ASTM A312	TPXM-19 & TPXM-10 & TPXM-11 & TPXM-29 & TP304 & TP304L & TP304H & TP304N & TP304LN & TP309S & TP309H & TP309Cb & TP309Hcb & TP310S & TP310H & TP310Cb & TP310Hcb & TP316 & TP316L & TP316H & TP316N & TP316LN & TP317 & TP317L & TP321 & TP321H & TP347 & TP347H & TP347LN & TP348 & TP348H & TPXM-15	Seamless and Welded Austenitic Stainless Steel Pipe intended for High Temperature and General Corrosive Services, in NPS 1/8 to 30 inches and wall thickness Sch. 5S & 10S & 40S & 80S
Duplex Stainless Steel Pipes	ASTM A790 UNS S31803	Several Grades	Seamless and Welded Ferritic/Austenitic Stainless Steel Pipe in NPS 1/8 to 30 inches and wall thickness Sch. 5S & 10S & 40S & 80S
Line Pipe	API 5L	A25-Class I & A25-ClassII & A & B & X42 & X46 & X52 & X56 & X60 & X65 & X70	Seamless and Welded Steel Line Pipe, includes Plain-End, Threaded-End, and Belled-End Pipe, as well as through-the-flow line (TFL) pipe and pipe with ends prepared for use with Special Coupling in two levels as PSL1 & PSL2 that PSL2 has mandatory requirements for carbon equivalent, notch toughness, maximum yield strength, and maximum tensile strength; in Single and Double random length, various sizes and wall thickness as given in standard ASME B36.10
Ductile Iron Pipes	According to ISO & EN Standards	Several Grades	

NOTE 1: OTHER SIZES, MATERIAL AND GRADES ARE AVAILABLE UPON REQUEST. PLEASE REFER TO Steel Co

NOTE 2: EACH ITEM MAY COVER SUPPLEMENTARY REQUIREMENTS OF NACE MR 01-75/ISO 15156 FOR SOUR SERVICES

NOTE 3: SOME COMMON PIPE BRANDS AND ORIGINS/MFR IN OUR STOCKS/COMPANY:

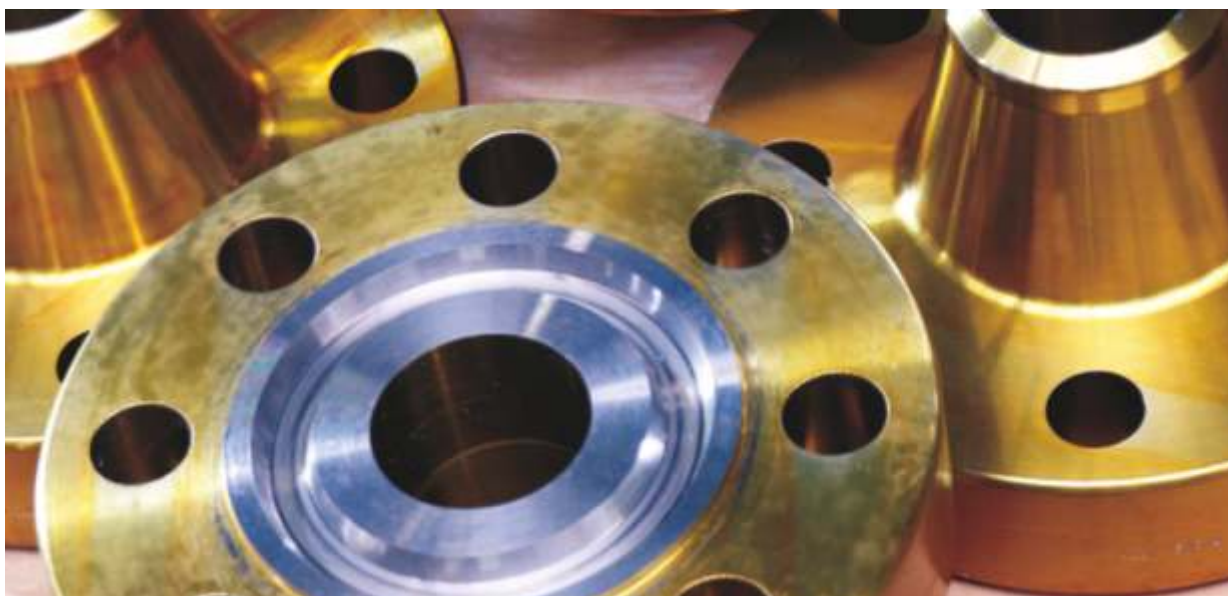
- Sumitomo, Japan
- Tenaris, Italy
- Chengdu, China
- Bentler, Germany
- Tubos, Spain
- Interpipe, Ukraine
- Volzsky / TMK, Russia
- TPCO, China
- Mittal, Romania
- Hyundai, Korea
- SeAH, Korea
- Tubacex, Spain
- Sandvik, Sweden
- Sanyo, Japan
- Froch, Tachen
- YC- Taiwan



Pipes & Tubes

Flanges

Others



Steel Co. caters to industry dominant flanges in carbon steel and stainless steel in all grades and sizes. We stock weld neck raised face, blind raised face, slip-on, threaded-NPT and socket welded flanges. Some of the flange brands we represent; Neumira, ULMA, KOFCO, Melesi, Metalfar, etc.

According to ASME B16.5

Size	NPS ½ to 24 inches
Class	150 & 300 & 400 & 600 & 900 & 1500 & 2500
Type	Lapped & Blind & Welding Neck & Threaded
Facing	Raced & Flat & RTJ
Manufacturing	Forging & Casting & Plate
Material Group	Three

According to ASME B16.47 – MSS SP44

Size	NPS 26 to 60 inches
Class	Series A: 150 & 300 & 400 & 600 & 900 Series B: 300 & 600 & 900
Type	Series A: Slip On & Blind & Welding Neck Series B: Welding Neck & Blind
Facing	Raced & Flat & RTJ
Manufacturing	Forging & Casting & Plate
Material Group	Two

Others

- Spectacle Blinds:** Class 150 – 300 – 400 – 600
- Line Spades and Spacers:** Class 150 – 300 – 400 – 600
- Spectacle Blinds:** RTJ / Class 300–400–600–900–1500–2500
- Female Type Line Blinds with RTJ Groove:**
Class 300 – 400 600 – 900 – 1500 – 2500
- Male Type Reversible Spades for RTJ Flanges:**
Class 300 – 400 600 – 900 – 1500 – 2500
- Male Type Line Blinds for RTJ Flanges:**
Class 300 – 400 – 600 900 – 1500 – 2500



Flanges

Orifice Flanges | Long Welding Neck Flanges | Special Flanges



Other Type:

Orifice Flanges:

- Orifice Threaded Flanges: Class 300 / Raised Face / NPS 1 to 8
- Orifice Slip-On Flanges: Class 300 / Raised Face / NPS 1 to 24
- Orifice Welding-Neck Flanges: Class 300 / Raced Face / NPS 1 to 24
- Orifice Welding-Neck Flanges: Class 400 / Raced Face / NPS 1 to 24
- Orifice Welding-Neck Flanges: Class 600 / Raced Face / NPS 1 to 24
- Orifice Welding-Neck Flanges: Class 900 / Raised Face / NPS 1 to 24
- Orifice Welding-Neck Flanges: Class 1500 / Raced Face / NPS 1 to 24
- Orifice Welding-Neck Flanges: Class 2500 / Raised Face / NPS 1 to 12

Long Welding Neck Flanges

- Long Welding-Neck Flanges: Class 150 / Raised Face / NPS ½ to 24
- Long Welding-Neck Flanges: Class 300 / Raised Face / NPS ½ to 24
- Long Welding-Neck Flanges: Class 600 / Raised Face / NPS ½ to 24
- Long Welding-Neck Flanges: Class 900 / Raised Face / NPS ½ to 24

Special Flanges

- Threaded, Welding-Neck and Blind Flanges Rated Working Pressure 5000 and 10000 PSI – RJ Face
- Welding-Neck and Blind Flanges Rated Working Pressure 15000 and 20000 PSI – RJ Face

Flanges



Description	Material	Grades	Usage / Remark
Forging	ASTM A105	--	Carbon steel flanges for ambient and higher temperature services in pressure systems
	ASTM A182	Material Grades for size ½ to 24 inches: F1 & F2 & F5 & F5a & F9 & F11 Cl. 2 & F12 Cl. 2 & F22 Cl. 3 & F44 & F51 & F53 & F55 & F91 & F304 & F304L & F304H & F310 & F316 & F316L & F316H & F317 & F321 & F321H & F347 & F347H & F348 & F348H Material Group for size 26 to 60 inches: F1 & F2 & F11 Cl. 2 & F12 Cl. 2 & F22 Cl. 3 & F5 & F5a & F9 & F91 & F304 & F304L & F304H & F316 & F316L & F316H & F321 & F321H & F347 & F347H & F348 & F348H & F310 & F44 & F51 & F53 & F55	Alloy steel flanges for high temperature services in pressure system
	ASTM A350	Material Grades for size ½ to 24 inches: LF1 Cl. 1 & LF2 & LF3 & LF6 Cl. 1 and 2 Material Group for size 26 to 60 inches: LF2 & LF6 Cl. 1 and 2 & LF3 & LF1 Cl. 1	Carbon and low alloy steel flanges for low temperature services and requiring notch toughness testing
Casting	ASTM A216	WCB & WCC	Steel casting, carbon, suitable for fusion welding for high temperature services
	ASTM A217	Wc1 & WC4 & WC5 & WC6 & WC9 & C5 & C12 & C12A	Steel casting, Martensitic stainless and alloy for pressure-containing parts, suitable for high temperature and corrosive service
	ASTM A351	Material Grades for size ½ to 24 inches: CF3 & CF8 & CF3M & CF8M & CG8M & CK3MCuN & CE8MN & CD4MCu & CD3MWCuN & CH8 & CH20 & CF8C & CK20 & CN3MN & CN7M Material Group for size 26 to 60 inches: CF3 & CF8 & CF3M & CF8M & CG8M & CF8C & CH8 & CH20 & CK20 & CK3MCuN & CE8MN & CD4MCu & CD3MWCuN	Casting, austenitic, austenitic-ferritic (duplex) for pressure containing parts
	ASTM A352	LCC & LC2 & LC3 & LCB & LC1	Steel Casting, ferritic and Martensitic for pressure containing parts and suitable for low temperature services

Flanges

Description	Material	Grades	Usage / Remark
Plate	ASTM A203	A & B & D & E	Nickel alloy steel
	ASTM A204	A & B & C	Molybdenum alloy steel
	ASTM A240	Material Grades for size ½ to 24 inches: 304 & 304H & 316 & 316H & 317 & 304L & 316L & 321 & 321H & 347 & 347H & 348 & 348H & 309H & 310H & S31254 & S31803 & S32750 & S32760 & 309S & 310S Material Group for size 26 to 60 inches: 304 & 304H & 316 & 316H & 317 & 304L & 316L & 321 & 321H & 347 & 347H & 348 & 348H & 309S & 309H & 310S & 310H & S31254 & S31803 & S32750 & S32760	Chromium, chromium-nickel, and chromium-manganese-nickel stainless and heat resisting steel
	ASTM A516	Material Grades for size ½ to 60 inches: 70 & 65 & 60	Carbon steel for moderate and lower temperature services

NOTE 1: OTHER SIZES, MATERIAL AND GRADES ARE AVAILABLE UPON REQUEST. PLEASE REFER TO Steel Co.

NOTE 2: EACH ITEM MAY COVER SUPPLEMENTARY REQUIREMENTS OF NACE MR 01-75/ISO 15156 FOR SOUR SERVICES.

NOTE 3: EQUIVALENT OF EACH ITEMS ACCORDING TO EUROPEAN STANDARDS (DN 15 to 600mm and PN 6 & 10 & 16 & 25 & 40 & 64 & 100) would be available by order