



YOUR BUSINESS. OUR COMMITMENT.

www.gharbflange.com

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From the 1979 leader in design, production of flange, fittings, special forged pieces and supply of seamless pipes.

With more than 38 years of experience in the field of manufacturing and producing of different types of flanges, elbows, tees, reducer and supply of seamless pipes used in various Oil, Gas, Petrochemical and refinery industries and also Marine-Hydro and steel industries with latest world standards and the best forge and forming equipment like drop hammers, forge presses and forming mandrels. GharbFlange Industrial Group is one of the greatest manufacturers of this product in country.

GharbFlange holds the title of first manufacturer of flange and butt weld fittings in Iran.

In addition and with advanced equipment, this group is able to produce various types of flanges and fittings by carbon steel, alloy, stainless steel materials, super alloys and carbon forms with high resistance against sour environments including H₂S, HIC and SSCC.

On the other hand various methods like heating treatment and normalizing, annealing, quenching and tempering on parts and products are applied for finding considered mechanical properties and in compliance with required standards.



GharbFlange Group

Iranian market leader company, was founded in 1979.

The company began the production of flange, fitting and supplying of seamless pipes. Over the years the company has carried on a relevant development process acquiring the leadership in the national markets and has confirmed a leading positioning in the international markets thanks its know how, skills and competence.

The company is appreciated by the major clients and its flange, fittings and pipes are part of the main oil & gas projects.

Technical consultancy, highly quality products, both standard and special ones, service excellence are the key factors highlighting the GharbFlange activities.

Thanks to its high technical level GharbFlange is able to engineer, produce and supply special items properly carried out in order to satisfy all the needs of the clients.

GharbFlange, thanks to its highly qualified and wide range of equipment, gets the clients to rely on an excellent service in terms of quality of products, assistance and Just In Time delivery.

Gh. Soury
Gh. Soury
CEO

GharbFlange is the brand name of the flange, butt-weld fitting manufacturing and pipe supply company.

We are equipped with the modern facilities and a highly qualified workforce, enabling us to offer the widest possible range of flange and fittings and high specification forged products and supplying pipes.

Our product line embodies the highest standards in quality, productivity and dependability. This, combined with our cutting-edge technology, experience and tradition of excellence.

Management systems based on the strictest quality standards allow **GF** to develop the products and services that best satisfy our customers needs. Our goods and high specification forged products are made from a wide variety of materials, including, carbon steel, stainless steel, duplex-superduplex, Inconel, Titanium and other Special Alloys.

GharbFlange standards and high specification products are designed and manufactured to withstand some of the world's harshest conditions, which they often need to endure in specialized market sectors such as oil & gas, petrochemicals, power generation and mineral refining



GHARBFLANGE

FORGED FLANGE & BUTT WELD FITTINGS

SINCE 1979



reliability is essential

Reliability is the basis of any good relationship. Has everyone fulfilled their part of the agreement?

Does open and honest communication exist?

Do we want to create lasting relationships?

Only when there is mutual trust we can achieve optimal results together.



mission and vision

VISION

By focusing on more than 38 years of production records and technical knowledge Gharb Flange Group intends to reach to the following ideals:

- To be changed into an international company in the field of production & equipping of oil/gas industries
- To find out valuable market share by maintenance suitable satisfaction of beneficiaries & customers
- Development of its activities in domestic & international markets
- Promotion and increasing its product basket and services
- Finding more value added through development of supplying chain

MISSION

Production of all types of flanges and Butt weld fittings and supplying of pipes of projects by focusing on strategic thinking

Correct recognition of needs and customers necessities, innovation and benefiting from domestic industries products and cooperation with world valuable manufacturers and hiring of special human resources.

FUNDAMENTAL VALUES

- Customer-base theory in the format of more customers success
- Permanent contact with loyal customers
- Training & continuous growth of personnel for continuous innovation and promotion
- Obligation to do the right job and value making in the form of group works
- Respecting a systematic management for upgrading technical quality of the organization

GharbFlange from the 1979 leader in design, production of flange, fittings, special forged pieces and supply of pipes.

wide and varied
**product
range**

The Gharbflange carries a wide and varied range of products. In addition to this, we supply pipes products and offer you a vast range of custom products, tailored to customer specifications.

The Gharbflange can produce and supply a variety of materials from stock including carbon steels, low temperature carbon steel, stainless steel, duplex and super duplex. Furthermore we can supply nickel alloys, alloy steel, high yield carbon steel, titanium and clad materials.

All our products are manufactured in accordance with the highest technical standards, such as ANSI, ASTM, ASME, API, EN-DIN, BS, JIS, MSS. The quality of our products is guaranteed through regular internal and external inspections.



FLANGES

FITTINGS

PIPES

FORGED PRODUCTS

Product range

Design, production of flange, fittings, special forged pieces and supply of seamless pipes.

FLANGES



Manufacturing The standard flange range in all dimensions and includes weld necks, long welding neck, slip-ons, blinds, threaded, socket weld, lap joint, orifice, hydraulic, swivel and anchor flanges with various face finish options.

FITTINGS



Manufacturing The butt weld and forged steel fittings tie in perfectly with the pipe assortment and include a wide variety of different types and schedule sizes in line with our pipe and flange program. seamless and welded butt weld fittings with dimensions ranging from ½" to 36" Forged steel fittings are available in threaded and socket weld versions; dimensions ¼" to 4" and pressure classes 3000 lbs, 6000 lbs and 9000 lbs. The fittings are produced by leading manufacturers in accordance with the highest quality requirements.

PIPES



GharbFlange supply and delivers a wide range of pipes, both seamless and welded (SAW, ERW, DSAW, HSAW, SSAW) in diameters ranging from ½" to 24" directly from stock. In order to meet the highest quality requirements, the products primarily come from manufacturers who are highly acclaimed in the international oil and gas market.

SPECIAL FORGING



Especially in the extreme conditions of offshore production, special custom made products are required such as rings, disc, tube sheets and nozzles. In our organisation we can facilitate the total design and production of various products in all grades and sizes.

BRANCH CONNECTIONS



Manufacturing weldolet, nipolet, weldoflange, nipo-flange from ½" to 4" in various material grades. The design is in accordance with MSS-SP-97 and / or Bonney Forge, or tailor-made to the application. All branch connections can be verified by mathematical and/or finite element analysis in accordance with ASME 31.3 / 31.8 / EN requirements.

FLOW MEASUREMENT



Manufacturing The standard range in all dimensions and includes meter run, flow nozzle, orifice flange and plates, bleed rings.



Flanges RATING CLASS			RINGS & TUBES SHEET	MANUFACTURING. STD
Class 150	0.5" to 60"		<i>Carbon steel</i>	ASME B 16.5
Class 300	0.5" to 60"		MAX OD = 2500 mm	ASME B 16.48
Class 600	0.5" to 48"		MAX THK = 300 mm	ASME B 16.36
Class 900	0.5" to 24"			ASME B 16.47/A
Class 1500	0.5" to 24"		<i>Alloy steel & Stainless steel</i>	ASME B 16.47/B
Class 2500	0.5" to 12"		MAX OD = 2500 mm	API 6 A
DIN FIANGES			MAX THK = 300 mm	MSS-SP44
Size 0.5" to 96" PN6 to 160 BAR				EN European standard
				BS 1560 -3293 - 4504 - 10M
				DIN
				UNI
				AWWA

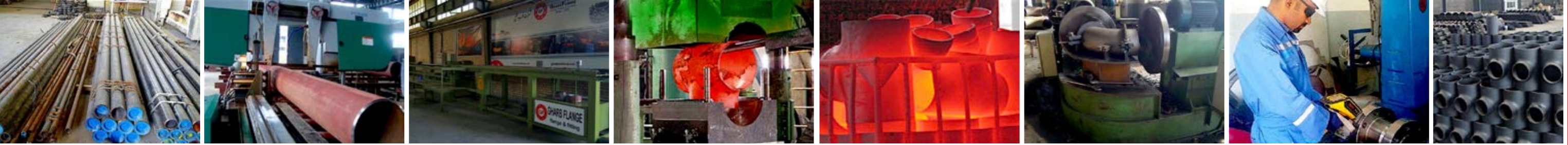
Designed to :
 ASME VIII Div 1
 ASME VIII Div 2
 ASME B31.3 / B31.4 / B31.8

FLANGE PRODUCTION EQUIPMENT

Gharb Flange boasts an modern, sophisticate production line, consisting of :

- PIPE BAND SAWS
- MULTIPLE FORGING LINES (MECHANICAL PRESSES-OPEN DIE FORGING HAMMERS, CLOSED DIE FORGING HAMMERS, HYDRAULIC PRESSES)
- DROP HAMMERS
- HEAT TREATMENT FURNACES WITH WATER AND OIL QUENCHING
- HEATING FURNACES
- NUMEROUS CNC MACHINES
- LATHE & DRILLING MACHINES
- EQUIPPED TESTING LABORATORY
- EQUIPPED COATING & PACKING





FITTINGS RATING

MANUFACTURING. STD

SR AND LR ELBOWS	0.5" to 24"	ASME B16.9
EQUAL TEES	0.5" to 36"	ASME B16.25
REDUCING TEES	0.5" to 36"	MSS-SP43
CONCENTRIC REDUCERS	0.5" to 36"	MSS-SP75
ECCENTRIC REDUCERS	0.5" to 36"	DIN 2605
CAPS	0.5" to 36"	DIN 2606
		DIN 2615
		DIN 2616
		DIN 2617

FORGED FITTINGS RATING

2000# to 9000#

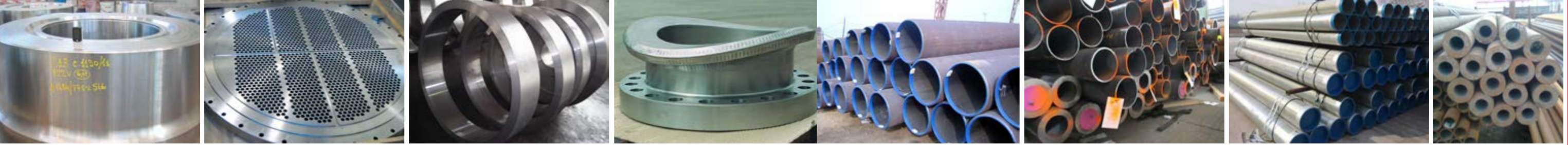
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FITTINGS PRODUCTION EQUIPMENT

Gharb Flange boasts an modern, sophisticate production line, consisting of :

- PIPE BAND SAWS
- CNC AND PLASMA CUTTING
- PLAMA ARC
- MANDREL MACHINES
- HYDRAULIC PRESS
- HEATING FURNACES
- HEAT TREATMENT FURNACES
- LATH MACHINES
- BEVELING MACHINES
- TESTING EQUIPMENT
- MARKING MACHINES
- COATING & PACKING EQUIPMENT





SPECIAL FORGING

From bars and blanks, to hubs, rings, sleeves and shafts, our forging specialists understand your metalworking processes and prerequisites. We are experienced in producing simple forgings or special designs to deliver exactly what you need as required by AISI, ASTM, ASME, specifications.

We Manufacture

- Hub Rings
- Disks
- Flow Nozzle
- Tube Sheets
- Special forged part acc. to client drawing or designed

INDUSTRIAL PIPE SUPPLY

Gharb Flange range of pipe and tube products is one of the largest, and is sourced only from carefully selected manufacturers. We supply products in any size or grade might require. Our inventories contain the widest selection of Low Temp, High Yield and High Temp Carbon Steels, to Low Alloy, Stainless, Duplex, Super Duplex Steels and Nickel Alloys

We supply and stock seamless and welded pipes from ½" upto 24" all grade. Our delivery and stock program covers high specification standards, and grades





MANUFACTURING PRODUCTS

- Welding neck
- Blind
- Slip on
- Socket weld
- Threaded
- Lap joint
- Long welding neck
- Orifice flange

- ELBOW**
- CAP**
- TEE**

- REDUCER**
- Orifice plate
- Spectacle blind
- RING spacer and spade

CLADDED FLANGE/WELD OVERLAYED FLANGE

- Drip rings
- Forged fitting

ANCHOR FLANGE

- Nipo flange
- HYDRAULIC FLANGE**

- Swivel ring
- Adaptor
- Nozzle
- Tube sheet
- Ring

- Weldolet
- Stub end

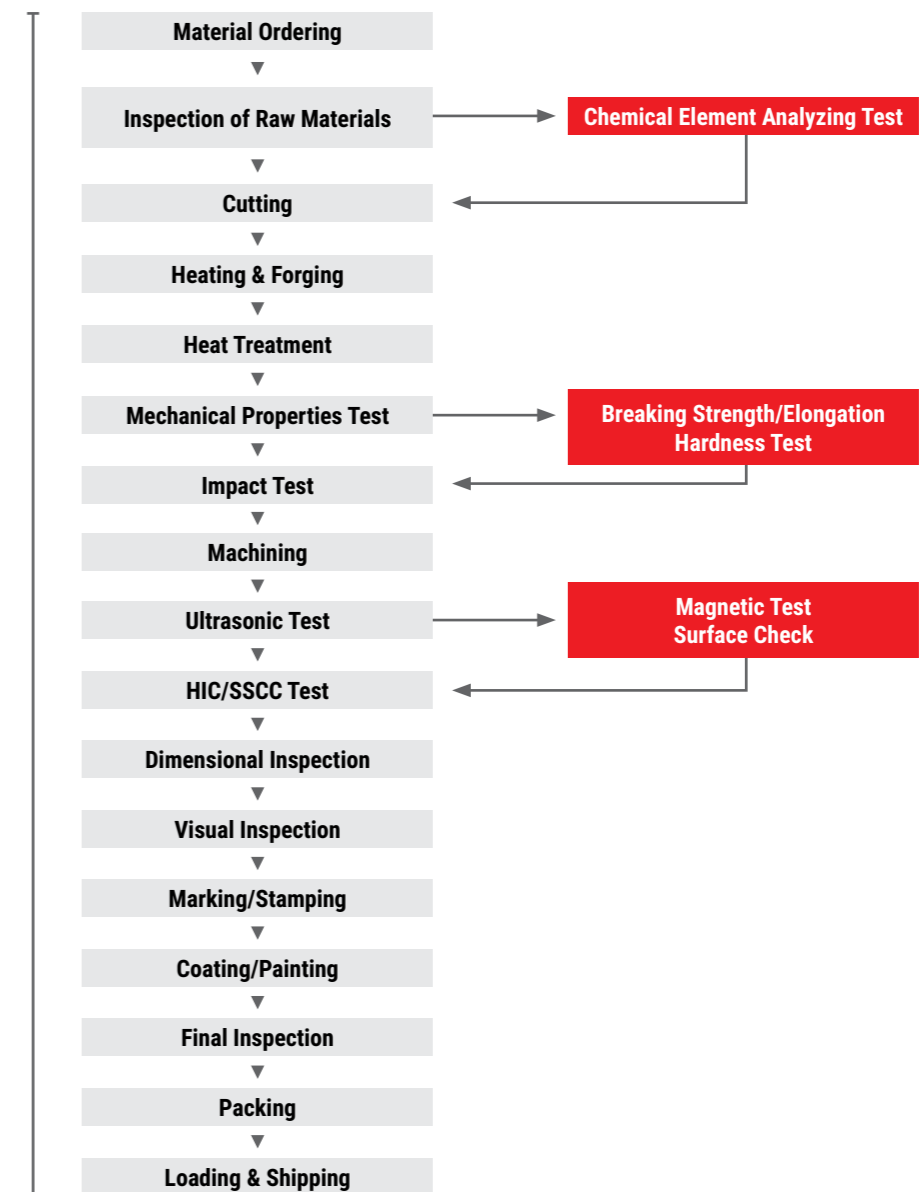
METER RUN

Special flange acc. to client drawing or designed

SUPPLIED EQUIPMENTS

- Welded Pipes (ERW, SAW)
- SEAMLESS PIPES**
- Spiral Pipes
- Bolt & Nut
- Gaskets

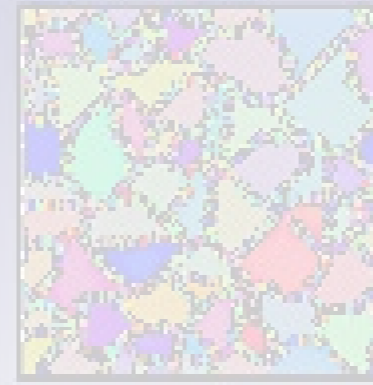
PRODUCTION PROCESS



Machining is the process of removing excess material and achieving exact dimensions as per the requirements.

The process of machining converts the forged part into a fully finished and ready-to assemble component. In machining we undertake various operations like turning, threading, grooving, drilling, milling etc. Machining is done as per relevant code/Standard or customer drawing.

We are doing machining on machines to achieve repeatability of dimensions and faster production. During machining process, recording and checking of dimensions is done for each piece in process. The material surface is checked for finish & micro defects and gasket surface. After machining, all the parts are marked for size, rating, schedule, material heat number and **GF** logo.



HEAT TREATMENT

Gharb Flange operates with environmentally compatible natural gas and electrically powered heat treatment furnaces which are calibrated regularly.

Heat treatment is a very critical process to achieve all the required properties of the forged piece. Our heat treatment facilities are equipped with calibrated oil fired and electrical furnaces. We are carrying out various types of heat treatments like normalizing, solution annealing and tempering. All heat treatment cycles are properly recorded with time temperature charts. After completion of heat treatments we carry out various testings like hardness, physical testing to ensure all the required properties are met.





QUALITY

Ensure the highest quality standard of services and products has always been of paramount importance for GHARB FLANGE

Importance that allows Gharb Flange to be safe in offering services and products in compliance with all the standards needed by clients in the oil & gas and petrochemical markets.

Along the production process specific steps are planned in order to perform product analysis and control / verification of the main quality parameters.

Controls and checks are made by an internal & best external lab whose equipment is in line with the most lately innovation technology for destructive testing and NDE

Inspection and Quality Control

The following inspection is done on each finished part:

- Dimensional inspection of components including surface finish
- Verification of heat number and standard of material
- Ultra-sonic testing-if required
- Dye penetrate testing
- Magnetic particle testing
- Packing and Forwarding



MATERIALS

Flange & Forge Parts

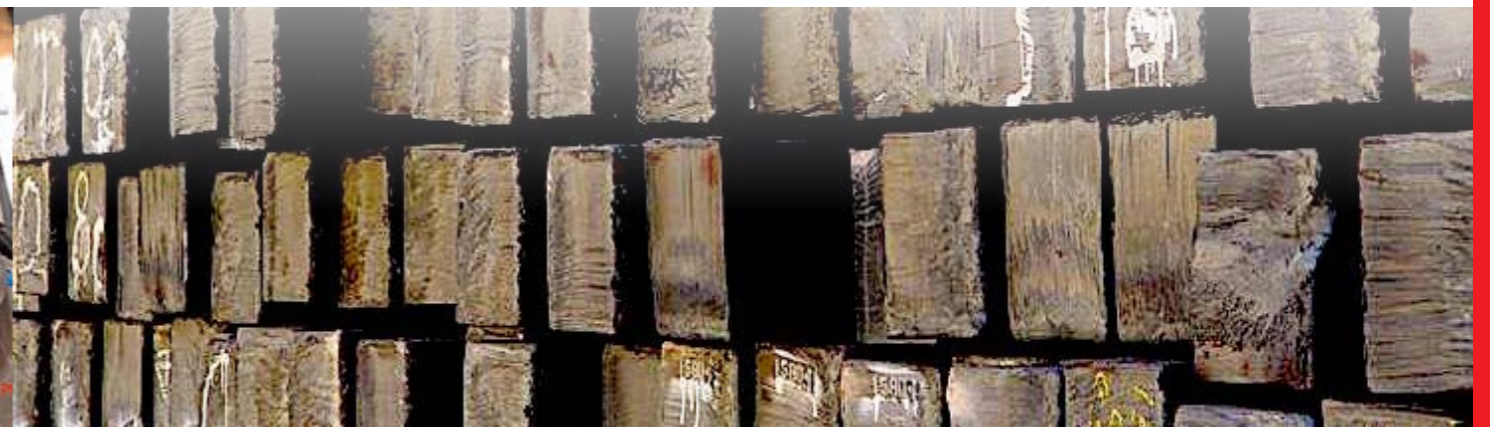
- Carbon steels
 - Steels for low temperature
 - Special low sculpture carbon
 - Special low sulphur carbon steel for sour service (HIC and SSCC test)
 - High yield carbon steels
 - API 6A materials
 - Low alloy steels
 - Stainless steels
 - Duplex - Super duplex steels
 - Nickel alloys
 - Copper Alloys
 - Titanium
- Construction steels
 - SA 105 - A181 class 60 - 70 - C22.8 - C21
 - A515 GR70 - A516 GR70 - RST37.2
 - A266 CL2 - A350 LF1.2.3
 - A182 F304 - 316 - 321 - 304L - 316L - 321L
 - A182 F1 - 5A - F9 - F11 - F22 - 51
 - MONEL 400 - MONEL K500
 - A694 GR F42 - 52 - 60 - 65

Fittings

- A 234 WPB
- A 234 WPC
- A 420 GR WPL6
- A 333 GR WPL3
- A 860 WPHY 42
- A 860 WPHY 46
- A 860 WPHY 52
- A 860 WPHY 56
- A 860 WPHY 60
- A 860 WPHY 65
- A 860 WPHY 70
- A 234 WP1
- A 234 WP11
- A 234 WP12
- A 234 WP22
- A 234 WP5
- A 234 WP9
- A 234 WP91
- A 234 WP92
- A 403 WP 304
- A 403 WP 316

Pipes

- A53 grade A
- A53 grade B
- A106 grade B
- A106 grade C
- A333 grade 3
- A333 grade 6
- API5L grade B - X42
- API5L grade B - X52
- API5L grade B - X60
- API5L grade B - X65
- A335 grade P1
- A335 grade P5
- A335 grade P9
- A335 grade P11
- A335 grade P22
- A312 TP304
- A312 TP316
- A312 TP321
- A312 TP347
- A790 duplex
- A790 6MO



References

Gharbflange has been approved as a supplier to a large number of leading operating companies from the oil, gas and (petro)chemical industry and the energy sector. Many oil and gas companies have such trust in our organisation and in the quality of our products and services that they have appointed the GF group as their preferred supplier. Gharb Flange manufacture & supplies various piping equipment based on long-term contracts.

Approved vendor List



National Iranian Oil Company (**NIOC**)

National Iranian Gas Company (**NIGC**)

National Iranian Oil Engineering And Construction Company (**NIOEC**)

National Iranian Petrochemical Company (**NIPC**)



National Iranian Oil Refining & Distribution company (**NIORDC**)

National Iranian Drilling Company (**NIDC**)

National Iranian South Oil Company (**NISOC**)



National Iranian Cooper (**NICICO**)

Iranian Offshore Engineering Company (**IOEC**)

Iranian Offshore Oil Company (**IOOC**)



Iranian Powerplant Projects Management (**MAPNA**)

Iran Marine Industrail Company (**SADRA**)



Iran International Engineering Company (**IRITEC**)

Pars Oil & Gas Company (**POGC**)



Oil Design And Construction Company (**ODCC**)

Petroleum Engineering And Development Company (**PEDEC**)

South Pars Gas Complex (**SPGC**)



Petrochemical Industries Design And Engineering Company (**PIDEC**)

Petro Pars Iran (**PPI**)

China National Petroleum Corporation (**CNPC**)



Water Industries

Steel Industries

AGH Shipbuilding Company

International Sales

Gharbflange has achieved export of its products to following countries :
Turkey, UAE, Iraq

Gharbflange offer professional engineering support to cover specific project requirements.

Our engineering team can assist clients in all aspects of design, calculation and verification thanks to the experience acquired through the years in the oil, gas, power plant and pressure vessel industries.



Gharbflange design process is supported with the use of Computer Aided Design (CAD) and the latest 3D solid modeling software with Finite Elements Analysis (FEA).

If required, design can be verified by a third party engineer.

Gharbflange can design the following products:

Swivel

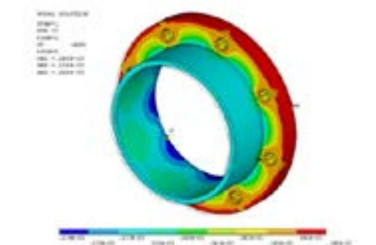
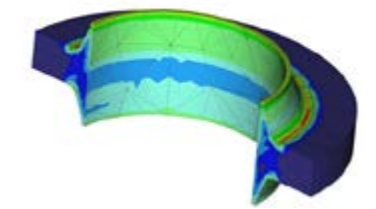
Anchor

Hot Tap Flange

Flow

Self-reinforced branch fitting

vessel, lateral, weld or flanged outlet



Design in accordance to the following standards and norms:

ASME B31.1, B31.3, B31.4 and B31.8

ASME Boiler and Pressure Vessel Code (BPVC) Section I

ASME Boiler and Pressure Vessel Code (BPVC) Section III

ASME Boiler and Pressure Vessel Code (BPVC) Section VIII div.1 &

others



Exhibition

Certificates & Awards

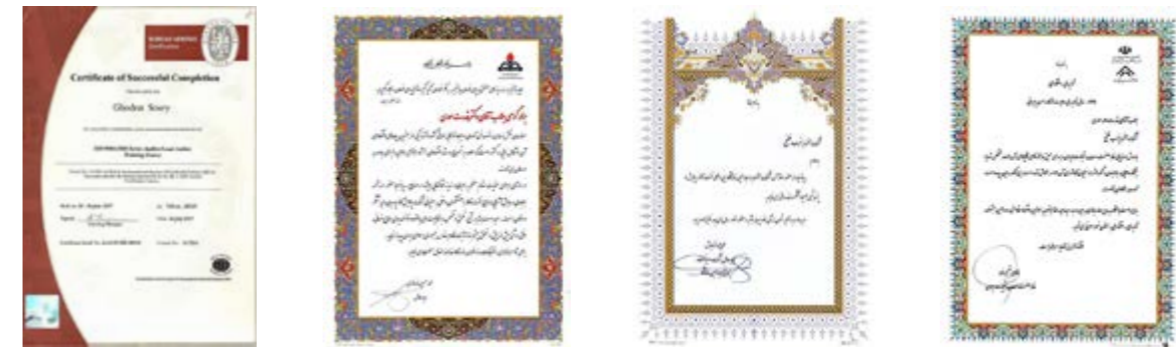


ISO 9001:2008

ISO 14001:2004

I.M.S

OHSAS 18001 : 2007





PACKING & SHIPMENT

Flange, fittings and forged parts are individually wrapped by hand to ensure that the high quality of the material is maintained and no damage in the last stages of production. We recommend Plywood cases or pallet packaging to ensure safe packaging and prompt delivery of the ordered consignment.

Goods come with imprints relevant to the job information (eg, heat number, size, material and part number). This information is also printed along all delivered.





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