Single-source supplier: Your trusted partner for Oil & Gas, Petrochemical, valves, pumps and service
OVERVIEW

AMIGO Tech Industries is an Indian based company, operating across the world to provide the complete solutions to the Shipbuilders, Petrochemical plants, Pharmaceutical in terms of Design, Manufacturing and Engineering solutions. We produce and supply wide range of products with high quality and cost effective

Strategy

To be a best solution provider in terms of Products and Services in Engineering and Manufacturing segment

Our Mission:

To become a trusted partner in our esteem customers business

Our Vision:

To be a best solution provider in terms of Products and Services in Engineering and Manufacturing segment.
AMIGO Tech Industries having facilities to Design, Forge or casting high pressure valves for various locations in the ship building. Our R&D department select very carefully the ories and raw material to forge the valves in ferrous and non-ferrous metals.

AMIGO designs, manufactures and supplies special metal and alloy valves to power, oil production and refining, chemical and petrochemical, pharmaceutical, food and beverage, oil-gas, water, marine, shipbuilding and other industries.

AMIGO series valves have been designed to meet the high demands of process engineering applications. AMIGO valve series provides optimum conditions for a wide variety of critical flow control applications. By virtue of their simplicity of design and minimum number of components and wearing parts, AMIGO valves are characterized by high performances, long time reliability, low maintenance and safe operation.

AMIGO valve range includes Gate Valves – Inside Screw, OS & Y Bolted Bonnet; Globe Valves – Inside Screw, OS & Y Bolted Bonnet; Ball Valves – Floating Full and reduced Port, Trunnion and Wafer ball valves; Check valves – swing check, Lift check and wafer check valves; Butterfly Valves; Plug Valves; special valves; and more.

AMIGO manufactures and designs pressure reducing valves. This experience guarantees the quality of our products and allows us to offer an optimal solution for all types of fluids (steam, liquid and gas).

Continuous development enables us to offer comprehensive production standard and also a special manufacturing service according to customer demands.
We are a company with a unique valve engineering know-how and have an international experience, a well known company in the world on the Shipbuilding, Oil & Gas market. We produces valves for onshore and offshore applications designed in accordance with the main international specifications like API 602/ISO 15761, API 600, BS 1868, BS 1873, BS 1414, API 6D and API 6A, BS 5351/ISO 17292, BS 6364.

Our Product range

AMIGO can offer almost full range of this series product. For easy site maintenance services AMIGO gate valves’ wedges of size 2”~8” . class 150lb~300lb are interchangeable. This series of products are API591, ISO 15848 class B, TA Luft certified. To ensure casting integrity, all pressure contain castings are from our own foundry.

Cast Valve

<table>
<thead>
<tr>
<th>Design Feature</th>
<th>Product Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Gate, Globe, Check</td>
</tr>
<tr>
<td>Size</td>
<td>2<del>64”(DN50</del>DN1600)</td>
</tr>
<tr>
<td>Rating</td>
<td>150~2500LB</td>
</tr>
<tr>
<td>Body Materials</td>
<td>Carbon Steel, Stainless Steel, Alloy Steel, Duplex Steel</td>
</tr>
<tr>
<td>Trim</td>
<td>Per API600</td>
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Cast Steel Floating Ball Valve

<table>
<thead>
<tr>
<th>Design Feature</th>
<th>Product Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>1/2<del>10 (DN15</del>DN250)</td>
</tr>
<tr>
<td>Rating</td>
<td>150~300LB</td>
</tr>
<tr>
<td>Body Materials</td>
<td>Carbon Steel, Stainless Steel, Alloy Steel, Duplex Steel</td>
</tr>
<tr>
<td>Trim</td>
<td>Carbon Steel, Stainless Steel, Duplex Steel</td>
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Butterfly Valve

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<th>Design Feature</th>
<th>Product Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>2<del>72” (DN50</del>DN1800)</td>
</tr>
<tr>
<td>Rating</td>
<td>150 ~ 232Psi (PN10~PN16)</td>
</tr>
<tr>
<td>Body Materials</td>
<td>Cast Iron, Cast Steel, Stainless Steel</td>
</tr>
<tr>
<td>Seat Materials</td>
<td>EPDM , NBR , VITON</td>
</tr>
<tr>
<td>End connection</td>
<td>Wafer, Lug, Double Flange</td>
</tr>
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</table>

Pipeline Valve

<table>
<thead>
<tr>
<th>Design Feature</th>
<th>Product Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>2<del>48” (DN50</del>DN1200)</td>
</tr>
<tr>
<td>Rating</td>
<td>150 ~2500LB</td>
</tr>
<tr>
<td>Body Materials</td>
<td>Carbon Steel, Stainless Steel, Soft Seat, Metal Seat</td>
</tr>
</tbody>
</table>

AMIGO Tech Industries provide wide range of all types Manual Valve, Actuated valve, Nuclear valve, special Valve of industrial applications for different process industries like Shipbuilding, Petrochemical, Oil and Gas and more with customer requirements and according to there technical specifications.
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**Mud Valve**

**Design Feature**
- Cavity O-ring seal
- Double thread actuation
- Inside gland packing structure
- One piece nickel plated solid gate
- Cylindrical extendable seats
- Bonnet design suited for on-line maintenance

**Size**: 2-1/16”, 2-9/16”, 3-1/8”, 4-1/16”

**Rating**: 2000, 3000, 5000PSI

**Body Materials**: ASTM A487 Grade 4C, 4N and 2Q

**Trim**: Monel, 4140, F316

**Soft Seal Materials**: NBR/F316, 4140 or A395

**End Connection**: Screw, RF

**Ship Building Valve**

**Design Feature**
- Non-rising stem gate valve
- Bronze trim
- Angle globe
- Stop check disc
- Manual or Pneumatic quick-closing valve
- ABS certified

**Type**: Non-Rising stem Gate Valve, Angle and Quick-closing Globe Valve

**Size**: 1/2~12” (DN15~DN300)

**Rating**: 150 ~ 300 LB (PN16~PN40)

**Body Materials**: Carbon Steel, Bronze, Stainless Steel

**Diaphragm valves**

**Body construction**: DN 15 - DN 300

**Face to face acc. to**: DIN3202, BS5156

**End connections**: EN 1092; ASME B 16.5 Class 150; DIN PN10/PN16

**Top flange**: EN ISO 5211

**Leak test**: EN 12266; ISO 5208

**Knife gate valves**

**DN**: 50 - 1200

**PN**: 10 (PN 16 upon request)

**Exterior design**: knife goes through the seal area

**Main characteristics**: monoblock body, circular, total passage: enables a high flow capacity with low load loss, gate with rounded edges: prolongs the working life of the rings and packing, interchangeable drives (hand wheel, electric actuator, pneumatic actuator)

**Seat**: NBR; EPDM, metal-metal

**Applications**: ideal for installations handling liquids containing suspended solids and waste water (mining, chemical treatment, water treatment, etc.)

**Standards**: ISO, ISO 9001:2000, Nuclear, ASME (ANSI)

**Misc**: High Temp, High Pressure

**Stop Check Valve**

AMIGO Tech Industries having the facilities to Design, Forge or casting the high pressures valves for various locations in the ship building. Our R&D department select very carefully the ories and raw material to forge the valves in ferrous and non ferrous metals.

High-viscosity fluids in power plants, petrochemical systems, coal chemical industry, with dust mixed fluid and solid granular, highly corrosive fluid medium and so on required the ball valve should be metal seal, so the choice of a suitable metal hard sealing ball valve “ball and seat” hardening process is very important.

The range of products we supply includes:
- Stop valves and check valves
- Wedge, oval and knife gate valves
- Wafer type, lug type, double flange butterfly valves
- Ball valves with one-part, multiple-part, 2-way and 3-way model options available
- Relief, safety and overflow valves as well as pressure reducers
- Fire-extinguishing equipment and accessories
- Filters and dirt traps
- Drives (electric, pneumatic, etc.)
- Compensators, pumps, sounding plugs, scuppers, etc.

and appropriate accessories as per national and international standards such as DIN, JIS, ANSI, etc. with normal and seawater-proof options.

General Service Valves

Applicable Codes and Standards
SST valves are designed, manufactured and tested to:
- MSS-SP 61: “Pressure Testing of Steel Valves”
- ASME B16.34: “Valves – Flanged, Threaded and Welding End”
- API 598 “Valve Inspection and Testing”

Model SSG Product Overview
- Sizes: 1/2 to 24"
- 2 or 3-Piece Design
- ASME Classes: 150 to 4500
- End Connections: Flanged, RTJ, BW and specials
- Bore: Full and Reduced
- Sealing: Uni- and Bi-directional
- Available in Block & Bleed configuration
- Actuation: Gear, Electric and Pneumatic

Isolation Drain/Valve
The Superheated Startup Vent Valve is open during boiler startup, up to 30% boiler capacity.

Valve is used to vent low temperature and pressure saturated steam.

- Sizes: 1/2 to 2-1/2"
- ASME Classes: 1500, 3200 & 4500
- End Connections: SW & BW
- Bore: Reduced
- Sealing: Uni-directional
- Actuation: Lever, Gear, Electric and Pneumatic

<table>
<thead>
<tr>
<th>Item</th>
<th>Standard Materials</th>
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<tbody>
<tr>
<td>Body</td>
<td>A105 Carbon Steel</td>
</tr>
<tr>
<td></td>
<td>F22/F91 Chrome Moly</td>
</tr>
<tr>
<td></td>
<td>316 Stainless Steel</td>
</tr>
<tr>
<td>Seat*</td>
<td>410 Stainless Steel</td>
</tr>
<tr>
<td></td>
<td>Inconel 718</td>
</tr>
<tr>
<td>Ball*</td>
<td>410 Stainless Steel</td>
</tr>
<tr>
<td></td>
<td>Inconel 718</td>
</tr>
<tr>
<td>Push Ring*</td>
<td>410 Stainless Steel</td>
</tr>
<tr>
<td>Spring</td>
<td>A286 Stainless Steel</td>
</tr>
<tr>
<td>Stem</td>
<td>Hardfaced Stainless Steel</td>
</tr>
<tr>
<td>Packing</td>
<td>Grafoil</td>
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We produce valves for onshore and offshore applications designed in accordance with the main international specifications like API 602/ISO 15761, API 600, BS 1868, BS 1873, BS 1414, API 6D and API 6A, BS 5351/ISO 17292, BS 6364.

Our product range is constantly expanding: we implemented an optimized manufacturing cycle and the highest quality standards in our range of gate (bolted, welded and pressure seal bonnet, wedge and through conduit), globe (including Y pattern, angle and needle), check (swing, piston and ball) and ball (floating and trunnion) valves. All these valves are available for forged and cast steels to meet all sorts of customer requirements and specifications.

We specialize in high pressure applications (up to 20,000psi) and extreme service conditions typical of highly sour services, toxic (bellows seal) cryogenic (down to -196°C) and high temperature (up to 750°C).

Our engineering division works with parametric 3D software and the latest FEA utilities to validate the design. An in-house R&D group performs intense test activities to prove the design before the product is commercialized.

Our products have been type tested at the presence of major end users and third party inspection authorities and our design activities are audited and certified to PED, API6D and API6A standards.

Benefits:

- Minimum flow resistance – pressure drop
- Compact design
- Taken apart in a single step
- Robust and high reliability
- Wide Material Range to suit process
- Body & bonnet made from high quality casting
- Valves availability of higher pressure and bigger sizes

We are the recognized manufacturer and exporter of casting components in India and abroad as well. Our cost-effective business solutions, simplicity and reliable manufacturing process enables us to operate in a wide array of industries mainly,

**Chemicals Power Generation**

- Fly ash
- River cooling water
- Lime slurries
- Scrubber slurries
- Abrasive and corrosive fluids namely magnesium hydroxide, ammonium sulfate, brine, salts, chlorinated waters, acids and so forth.

**Industrial application**

- Coal slurries
- Wastewaters
- Chemical additions
- Tailings
- Mineral and metal concentrate
- Industrial minerals
- Mining
- Paper and Pulp Steel Mills
AMIGO as engineering company has an official exclusive right to represent a number of world processing equipment manufacturers’ brands in the local and global, it can offer prices to its customers directly from the producer without any extra charges that tend to emerge when purchasing equipment through regional representatives of the majority of manufacturers.

**Equipment for chemical, petrochemical and gas processing industries**

**Oil treating equipment**
- Compact oil emulsion separator
- Reverse circulation self-cleaning filter for oil and oil products filtration

**Oil heating units**

**Auxiliary units for the needs of oil refineries, gas processing plants and petrochemical plants**
- Electric generating units
- Oil and gas metering units
- Independent sources for energy supply of objects
- Turbine expanders
- Automatic foam, water and gas fire-extinguishing systems
- Water-Jet Surface Cleaning Stations
- Aluminum tank domes
- Oil-and-Gas Pipeline Cleaning Systems
- Pipeline hot-tapping machine

**Processing eco units**
- Closed flaring systems for Gaseous Waste Burning
- Skimmers, floating pontoons and other means to remove oil products from water

**Processing equipment**
- High Pressure Air Compressors
- Gas compressors, high lift pumps
- Canned pumps
- Corrosion resistant centrifugal pumps
- Submersible Pumps with Agitator
- Centrifugal Pumps
- High pressure systems
- Heat exchangers and capacitive equipment, pipes, profiles, metal constructions
AMIGO Tech Industries provide quality products through professional work environment to maximize profit in a socially responsible and sustainable manner.

**Oil treating equipment**

**Compact units for oil separation**

During well-drilling, complete well overhaul, clean-up and oil production, extracted products can contain oil and water. The extracted components can be pure and emulsified, and can be of different state in a product, thus complicating further oil refining. To solve this problem, AMIGO suggests applying constant multi-phase liquid separation into two different flows by centrifugal efforts. The separation is made by the special centrifuge.

**Operating data:**

Feed: up to 250 m³/hr  
Pressure: up to 4 bar

**Unit dimensions:**

- Modular construction:  
- Length: 5365 mm  
- Width: 3460 mm  
- Height: 4797 mm

**Application:**

- Crude oil, produced water, drain water, etc. constant separation.

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**Reverse circulation self-cleaning filter for oil and oil products filtration**

**Application of filters:** Oil-and-gas, petrochemical, food industries, etc.

**Function of filters:** Removal of mechanical impurities from filtered fluid flow.

**Technical data:**

- Filter fineness: 25 µm  
- Life time: over 20 years  
- Material: SS 304, 316
AMIGO Tech Industries, With our fully-integrated solutions tailored to clients’ needs, we provide state-of-art technology from designs and manufacture through to the start of operations.

Oil Heating Units

AMIGO Tech Industries can design and offer different types of oil heaters depending on customers’ demands and reference conditions:

- Convection type
- Radiant wall type with a helical two- or three-way coil
- Serpentine type
- Enclosure type
- Water bath type
- Heated fuel tanks

Efficiency factor – 90%
Heater thermal power: from 5 up to 40 MWt
Oil productive capacity: up to 2000 m$^3$/h
Operating life: up to 30 years
Design: fire and explosion safe

Auxiliary units for the needs of oil refineries, gas processing plants and petrochemical plants

Electric energy generating units

The units offered by AMIGO are a breakthrough in science and technology.

The units run on the following types of fuel:

- Methanol
- Nature gas
- Associated gas, Diesel..etc.,

Self-powered generators and power supply to objects

AMIGO Tech Industries can offer the following unit types:

- Co generators – self-powered energy and heat sources.Power from 10 kWt to 8 MWt
- Diesel generators – self-powered energy supply Power from 2 kWt to 3 MWt
- Associated gas generators – self-powered energy sources Power from 10 kWt to 8 MWt
Vapor recovery units of volatile hydrocarbons

Application of VRU:

- Loading terminals
- Truck filling stations and truck tanks
- Railway oil loading terminals
- Petrol station
- Oil tank farms

Flow rate: 10 m³/h ... 30 000 m³/h
Required power (average annual): 0,08 kW.h/m³ ... 0,15 kW.h/m³
Recovery range: 97... 99,9% depending on vapor type
Allowable VRU constant overload: 150%, vapor recovery remains 90%

Unit construction versions for different applications

The recovery technology used by AMIGO in our VRUs is based on the cooling process with heating media recirculation.

Supplied units are designed for the following products’ vapour recovery:

- Light petrol, incl. methyl-tret-butyl-ether and ethanol mixtures
- Diesel/petrol
- Trichloroethylene
- Naphta
- methylene chloride
- Pentan
- Acrylonitril
- Crude oil vapour
- propylene oxide
- Benzol
- Xylol
- Liquified petroleum gas
- Sterol, Other volatile organic compounds and inorganic components.

Oil and Gas Metering System

Computerized metering complex solves problems connected with quality control and registration of natural gas quantity at all stages of its transportation and use. Application during building of precision gage complex and provision of optimal conditions of their functioning allows minimizing inaccuracies of definitions of controllable gas flow characteristics. The metering complex is supplied as separate block-boxes fully complete with all necessary equipment, assembled and set at the manufacturer’s production plant.
Turbine Expanders

Hydraulic Brake Expander
Hydraulic Brake Expander is used where small cooling capacity (up to 100 kWt) is required and expander power conversion into electric power or gas compression is not economically feasible.

Compressor Expander
Compressor Expander has much more extensive application. Gas is compressed in a centrifugal compressor after heavy hydrocarbons separation in a steam-and-water separating drum. The unit has a common shaft with one of expander wheels and one compressor wheel which are shaft opposite. This turbine expander type is used in process cycles for decrease in gas temperature (refrigeration) and for process gas pressure increase due to compressor stage operation.

Generator Expander
Generator Expander is used for energy generation (with refrigeration) in process units and at gas distributing stations during compressed gas energy regeneration (utilization).

Operating characteristics:
- power: from 100 to 50000 kWt
- inlet pressure: to 150 atm
- capacity: up to 60 MCM/DP

Compressors
As a leading manufacturer/supplier of process gas compressors, AMIGO offers all types of compressors: screw, reciprocating and centrifugal. All AMIGO compressors comply with heavy-duty process gas service requirements (API Standards). With expertise in all compressor technologies, AMIGO can recommend and engineer the optimal process

Oil-and-Gas Pipeline Cleaning Systems
For cleaning oil-and-gas pipeline inner surfaces, maintenance works and emergency shutoff, company offers the following technical solutions and equipment:

- Pig receivers and launchers
- Scrapers of various versions from 2" to 56"
- Welding tools
- Leak sealing plugs
- Compression plugs
- Insulation plugs for high pressure pipelines
- T-bends for spheres to pass
Module-type formation pressure maintenance plant

We hold expertise in manufacturing, exporting and supplying wide assortment of Oil, Gas, Chemical Plants and Equipment for our prestigious clients. This equipment facilitates the Petrochemical plant to function efficiently and has high capability of carrying out the heat recovery from fluids, gases, steam or vapors.

Formation pressure maintenance plants are tailored to perform numerous functions like formation water lifting, pipeline transportation, bed stimulation using pressure build-up means, local water injection into bed and produced water pumping.

Pump stations for formation pressure maintenance systems help maintain optimal pump operation. It embodies different systems for

Associated gas generators

Associated gas is the natural gas coming from oil wells. This gas is either separated from oil or dissolved in raw oil. However, when this gas is separated from crude oil, it is mixed with hydrocarbon elements such as butane, ethane, propane and pentane not to mention that raw natural gas already contains water vapor, hydrogen supplied (H2S), carbon dioxide (CO2), nitrogen (N2) and other compounds. The impurities present in associated gas need to be treated or else they will hamper the gas transportation and cause repercussions. This is why oil producers

Chemical Reactors

The reactors, in which chemicals are made in industry, vary in size from a few cm³ to the vast structures that are often depicted in photographs of industrial plants. For example, kilns that produce lime from limestone may be over 25 metres high and hold, at any one time, well over 400 tones of materials.

The design of the reactor is determined by many factors but of particular importance are the thermodynamics and kinetics of the chemical reactions being carried out.
AMIGO Tech Industries, its modern production facilities, tried and true technologies, long-standing engineering experience, personnel competencies and references accumulated during its production of nuclear equipment all define the unique capabilities of AMIGO for the design and manufacture of a wide range of pressure vessels with various purposes and various dimensions used for the petrochemical industry.

**Thin Film Evaporator TFE**

Thin Film Evaporation refers here to the thermal separation of products in a mechanically generated, thin and highly turbulent liquid film.

A feed distributor at entry point distributes the liquid in a thin film on the heated wall. The high speed rotor further spreads and intensely agitates the film as it flows down. The generated vapors flow counter currently and get cleaned by an integrally mounted entrainment separator.

The processing is completed in a few seconds.

**Condenser / Heat Exchanger**

Heat Exchangers and Condensers have applications in many of the major industries where the heat exchanger process is part of the manufacturing procedure.

- Oil Refineries - production of various bi-products
- Petro-Chemicals Operations
- Chemical Plants
- Steel Mills - bi-products of steel making process
- Pulp and Paper, and many other applications

**Vacuum Chamber**

AMIGO Tech Industries engineers, designs, and fabricates Vacuum Chambers.

We provide in-house cold-shocking, mass-spec. testing, decay tests, & radiography if required. We can accommodate practically any size and ratings. AMIGO engineering acumen ensures that your vacuum chambers are not only durable, but also safe.

We hold the American Society of Mechanical Engineers (ASME) U, U2, U3, PP, & S stamps. Therefore, if you desire your vacuum chamber to also be pressure rated we can certainly provide that.
For any enquiries, and queries please contact us @

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