



AXEGIC GROUP INC



ABOUT US

Profile



We are an ISO 9001 : 2015 Certified Company has come as one of the major Manufacturer, Exporters and Suppliers of a wide range of Industrial Valves, Pipe Fittings & Engineering Products. The company offers a wide range to Premium Quality of Industrial Valves like Strainers, Diaphragm Valves, Forged Steel Gate-Globe-Ball-Check Valves, Knife Gate Valves, Ball Valves, Butterfly Valves, Gate Valves, Globe Valves, Non-Return Valves, Pulp Valves, Plug Valves, Needle Valves, Foot Valves, Pressure Relief Valves, Safety Valves, Pipe & Fittings, etc.

We are the Manufacturer & Exporter of Quality Valves of almost all types for a wide spectrum of users in the Process & Chemical, Refineries & Petrochemicals, Fertilizers, Drugs & Pharmaceuticals, Thermal Power Stations, Nuclear & Atomic Power Stations, Textiles, Dyes & Intermediates, Paints & Varnishes, Sugar, Breweries & Distilleries, Soaps & Detergents, Steel Plants, Food & Oil Industry, Solvent Extraction Plants, Sewage, Effluent & Water Treatment, Cooling Water, Ship Yards and Marine Management, Water Works, Pulp & Paper, LPG Bottling Plants, Onshore & Offshore platforms, Slurry & Ash handling.

A modern facility to manufacture Industrial Valves under the brand '**AXEGIC**' focusing more on the global demand of International Standards of manufacturing.

We use Quality Raw Materials (Castings & Forgings) from reputed foundries/forge shops and we have Statistical Quality Assurance System with inspection at every stage of Manufacture to ensure sustained quality in our supplies. We have adequate capacity in terms of expertise and finance is in a position to undertake a large volume of orders with committed deliveries.



Team

Our Key Personnel has an Experience of over 14 years and our idea is to provide Quality Material and Service too many Industries. The Key Personnel in the Unit has undergone extensive training in various aspects of Industrial Valve designs and training is an ongoing process.

The company has a design department with Qualified Engineers and Draughtsmen. The design Department has well equipped manual & computerized services. The Department strictly adheres to the applicable International Standards. The Company is also keen to update the standards used for design purposes from time to time.

We work together, across boundaries, to meet the needs of our customers and to help the company win.



Mission

We provide the needs in the Industry, by manufacturing and supplying Valves in all types. We offer standard Valves and custom-made Valves, all in good quality, to deliver only reliable products to our customers. We work with dedication and excellence to meet the demands in the Petro Chemical, Steel Plants, Thermal Plants, Offshore and Oil and Gas Industries.

*"Efficiency is doing things right.
Effectiveness is doing the right things."*

Vision

'AXEGIC' Group wants to be the company in the Industry where people know exactly who we are, what we do and most importantly what we can do. We move along with the world, the industries and the people. We keep the focus on technical innovations and (brand) development while we remain committed and dedicated to our customers, value good quality and ensure we continuously achieve for excellence.

Values

- ☒ Spreading the Power of Optimism.
- ☒ We work hard every day time to time to make "AXEGIC" is the world's most trusted & Qualified brand.
- ☒ We respect for Safety & Environment.
- ☒ We develop relationships that make a positive difference in our customers.
- ☒ We provide outstanding products and unparalleled service that, together, deliver premium value to our Customers.
- ☒ We uphold the highest standards of integrity in all of our actions.
- ☒ We exhibit a Strong will to win in the market place and in every aspect of our business.
- ☒ We are personally accountable for delivering on our commitments.



Industries

"AXEGIC" Valves are manufactured by adhering to strict manufacturing and quality standards and the company caters to the requirements of a host of Industries like Oil, Petroleum, Chemicals, Fertilizers, Pharmaceuticals, Paper, Distilleries, Rubber, Sugar, Engineering etc.

With the aim to satisfactorily cater to the Diverse Industrial Valve requirements, we are providing an extensive range of Industrial Valves that have various superior features to minimal wear & tear, simple installation and easy maintenance.



STRAINERS

“Y” Type Strainers are essentially a filter with wire mesh as a filtering medium. It is used in the process line to filter out any solids larger than the mesh size which are trying to pass through the process line.

This “Y” Type Strainers are designed for longer service life and high performance even after consistent use in extreme and testing environments of high temperature and pressure.

“Y” type is suggested to use where the solid % is less in quantity. The dirt or foreign particle holding capacity is less than compared to Basket Strainer. These Strainers are very compact and can be used in horizontal & vertical lines.



“Basket” Type Strainers, the definition of the Basket Type Strainer is "A closed vessel with cleanable screen element designed to remove and retain foreign particles. Note the term "foreign particles".

Basket Strainers do not necessarily remove only dirt. They take out material which is not wanted in the fluid and this can sometimes be a valuable product which may be saved.

Basket Strainer is used where cleaning may occur frequently, it stands to reason that the basket should be able to be removed and replaced as simply as possible. The strainer cover is held down by a clamping yoke which is sturdy enough to hold full line pressure and yet, which can be quickly loosened or tightened by hand. Bolted covers are also furnished with basket strainers and they cost less than yoke covers.

Basket Type Strainers are of Two Types

Simplex Strainers :- Simplex basket strainers can be of casted and fabricated depending upon various factors. The shape of simplex basket strainers is like a basket which has the capacity to store large amount of debris. Also, the bigger size provides a proper platform for effective filtration area.

Duplex Strainers :- Duplex Strainer or Twin Basket Strainer is a type of filter built into a fuel, oil or water piping system and it is used to remove large particles of dirt and debris. The duplex strainer system usually consists of two separate strainer baskets housings. The system also contains a Valve handle placed between the two baskets to divert the flow of liquid to one Strainer while the other is being cleaned. On some strainers, the Valve will work automatically and the Strainer will perform a self-cleaning operation.

Technical Specification

Sizes	DN25 to DN600 (NPS 1 to NPS 24)
Pressure Rating	Class 150, 300 & 600
Material Construction	Cast Carbon Steel – WCB, WCC, etc. Low Carbon Steel – LCB, LCC, etc. Martensitic Steel – WC1, WC6, WC9, C5, C12, CA15, etc. Austenitic Stainless Steel – CF8, CF8M, CF3, CF3M, CN7M, CG3M, etc. Duplex Stainless Steel – CD4MCuN, CD3Mn, etc. Nickel-Copper Alloy – Monel 400, Nickel-Copper-Aluminium Alloy – Monel 500, Ductile Iron - Grey Cast Iron, S.G. Iron, etc. Fabricated – Carbon Steel, etc.
Design & Manufacturing Standard	As per Manufacturer’s Standard
Face to Face Std.	ASME B16.10
End Connection Std.	Flanged to ASME B16.5, Screwed Ends to ANSI B1.20.1 & BS 84, Socket Weld Ends to ASME B16.11, Butt Weld Ends to ASME B16.25, BS, DIN & PN Rating Standard.
Testing Standard	API 598
Structure Type	“Y” Type, “BASKET” Type, “POT” Type
Operated Type	Self



DIAPHRAGM VALVE

The basic construction of the Diaphragm Valve is quite simple. It is composed of three principal units called Body, Bonnet and Diaphragm. Originally, the Diaphragm Valve was developed for use in industrial applications. Later on, the design was adapted for use in the bio-pharmaceutical industry by using compliant materials that can withstand sanitizing and sterilizing methods.

Diaphragm Valves are particularly suitable for service lines handling Corrosive, Abrasives, Viscous or Fibrous Fluids.

There are numerous combinations available for selecting the most suitable body material, body lining and diaphragm material for a specific service depends on several variables, economic considerations nature of fluid handled, its concentration and corrosiveness, temperature, pressure, velocity and continuity of flow.



Diaphragm life depends not only upon the nature of the fluid handled, but also upon the temperature, pressure and frequency of operations.

There are two main categories of Diaphragm Valves: one type seals over a "weir" & and the other (sometimes called a "full bore or straight-way" Valve) seals over a seat.

These Valves can be effectively used to handle Pharmaceuticals, Foods, Dairy Products, as well as Beverages & Water Treatment Plants.

Technical Specification

Sizes	DN15 to DN300 (NPS 1/2 to NPS 12)
Pressure Rating	Class 150, PN10 & PN16
Material Construction	Ductile Iron - Grey Cast Iron, S.G. Iron, etc. Cast Carbon Steel - WCB, WCC, etc. Austenitic Stainless Steel - CF8, CF8M, CF3, CF3M, etc. Other Material - As per client Requirement
Design & Manufacturing Standard	BS 5156
Face to Face Std.	BS 5156
End Connection Std.	Flanged to ASME B16.5, Screwed Ends to ANSI B1.20.1 & BS 84, Socket Weld Ends to ASME B16.11, Butt Weld Ends to ASME B16.25, BS, DIN & PN Rating Standard.
Testing Standard	API 598 / BS 6755 Part-I
Structure Type	Weir Type / Straight Way
Construction Lined	Lined - Ebonite, EPDM, Neoprene, Natural Rubber, White Natural Rubber, Hypalon, Black Butyl, White Butyl, Buna N, Un-Lined
Diaphragm	Neoprene, EPDM, Natural Rubber, Hypalon, Butyl, Buna N, PTFE Lined
Operated Type	Hand Wheel, Pneumatic Cylinder, Electric Actuator, Bare Shaft, etc.

FORGED STEEL GATE, GLOBE, LIFT CHECK & BALL VALVE

Manufacturing Forged Steel Valves to suit various critical & non-critical applications

Forged Steel Valves are ideal for use in petroleum refineries, chemical plants, power generating plants and in a wide range of other industrial applications. Forged Steel Valves are manufacture of superior materials for strength and durability. They incorporate the utmost in technology and design, plus quality control procedures that ensure strict adherence to applicable industry International Standards.

Forged Gate Valves

Forged Steel Gate Valves are Bolted Bonnet, Outside Screw and Yoke type, Rising Spindle Construction Body and Bonnet made from high quality forgings.

Technical Specification

Sizes	DN15 to DN50 (NPS 1/2 to NPS 2)
Pressure Rating	Class 800, 1500 & 2500
Material Construction	Forged Carbon Steel – ASTM A105, LF2 Forged Stainless Steel – F304, F304L, F316, F316L, F11, F22, F5, F9, F51 Other Material - As per client Requirement
Design & Manufacturing Standard	API 602
Face to Face Std.	As Per Manufacturer's Standard for Screwed, Socket, Butt Weld Ends ASME B16.10 for Welded Flanged Ends
End Connection Std.	Welded Flanged to ASME B16.5, Screwed Ends to ANSI B1.20.1 & BS 84, Socket Weld Ends to ASME B16.11, Butt Weld Ends to ASME B16.25, BS, DIN & PN Rating Standard.
Testing Standard	API 598
Type of Bore	Regular (Reduced) & Standard (Full Bore)
Operated Type	Hand Wheel, Electric Actuator, Bare Shaft, etc.



Forged Globe Valves

Forged Steel Globe Valves are generally available with Plug Type Disc, which is designed to give leak tight seating over a long period of in built wear life. All Globe Valve stem is made from solid one-piece construction. The yoke bush of Globe Valve has a long thread engagement for accurate stem alignment.

Technical Specification

Sizes	DN15 to DN50 (NPS 1/2 to NPS 2)
Pressure Rating	Class 800, 1500 & 2500
Material Construction	Forged Carbon Steel – ASTM A105, LF2 Forged Stainless Steel – F304, F304L, F316, F316L, F11, F22, F5, F9, F51 Other Material - As per client Requirement
Design & Manufacturing Standard	API 602
Face to Face Std.	As Per Manufacturer's Standard for Screwed, Socket, Butt Weld Ends ASME B16.10 for Welded Flanged Ends
End Connection Std.	Welded Flanged to ASME B16.5, Screwed Ends to ANSI B1.20.1 & BS 84, Socket Weld Ends to ASME B16.11, Butt Weld Ends to ASME B16.25, BS, DIN & PN Rating Standard.
Testing Standard	API 598
Type of Bore	Regular
Operated Type	Hand Wheel, Electric Actuator, Bare Shaft, etc.



Forged Steel Lift Check Valves Bolted Type and have body guided piston assuring accurate return to seat ring to achieve leak tightness. This Check Valves are suitable for only Horizontal Line.

Technical Specification

Sizes	DN15 to DN50 (NPS 1/2 to NPS 2)
Pressure Rating	Class 800, 1500 & 2500
Material Construction	Forged Carbon Steel – ASTM A105, LF2 Forged Stainless Steel – F304, F304L, F316, F316L, F11, F22, F5, F9, F51 Other Material - As per client Requirement
Design & Manufacturing Standard	API 602
Face to Face Std.	As Per Manufacturer's Standard for Screwed, Socket, Butt Weld Ends ASME B16.10 for Welded Flanged Ends
End Connection Std.	Welded Flanged to ASME B16.5, Screwed Ends to ANSI B1.20.1 & BS 84, Socket Weld Ends to ASME B16.11, Butt Weld Ends to ASME B16.25, BS, DIN & PN Rating Standard.
Testing Standard	API 598
Type of Bore	Regular



Forged Ball Valves

Forged Steel Ball Valve manufacturing according to International design and standard to get 100% Client Satisfaction with total interchangeability, superior quality, workmanship & service. These Ball Valves come in Three Piece Design to suit various industrial critical, non-critical applications.

Forged Steel Ball Valve gives Zero Leakage, Tight Shut-Off and Low Torque with easy smooth operation at different temperature range. It will be provided in Blackbodies, Electro-Polished or Acid Pickled, Buff Finish & Ultra clean Valve for Petro-Chemical Industries, Food & Pharmaceutical Industries on request.

Ball Valves are also available with different type of Seat, Seal & Packing material such as P.T.F.E. (Virgin) / Glass Filled P.T.F.E. / Carbon Filled P.T.F.E. / Graphite (Grafoil) / PEEK to suit special requirement of client.

Technical Specification



Sizes	DN6 to DN50 (NPS ¼ to NPS 2)
Pressure Rating	Class 800, 900, 1500 & 2500
Material Construction	Forged Carbon Steel – ASTM A105, LF2 Forged Stainless Steel – F304, F304L, F316, F316L, F11, F22, F5, F9, F51 Other Material - As per client Requirement
Design & Manufacturing Standard	BS 5351, ASME B16.34
Face to Face Std.	As Per Manufacturer's Standard for Screwed, Socket, Butt Weld Ends ASME B16.10 for Welded Flanged Ends
End Connection Std.	Welded Flanged to ASME B16.5, Screwed Ends to ANSI B1.20.1 & BS 84, Socket Weld Ends to ASME B16.11, Butt Weld Ends to ASME B16.25, BS, DIN & PN Rating Standard.
Testing Standard	API 598 / BS 6755 Part-II
Type of Bore	Regular (Reduced) & Standard (Full Bore)
Operated Type	Hand Lever, Pneumatic Actuator, Electric Actuator, Bare Shaft, etc.

KNIFE GATE VALVE

Knife Edge Gate Valve is the specific design. This design ensures minimum contact between the parts of the Valve, Reduces the Wear & Tear. The high-performance Knife Gate Valves feature. Non-Sliding Motion, Avoid Sliding Contact between Body & Gate allow flushing of media from the Valve interior. A wide variety of hardened trim options are available at Gate, Seat and Wear Ring. Batten edge of the Gate (Knife-Edge) allows the tight shut off even when solid particles settle at the bottom of the Body.

The Valves are regularly used for applications to handle, pulp in pulp mill, slurries, powder such as coal, ash, dry and wet powder in power houses, pneumatic conveying systems, dust collecting systems and material handling equipment's.

For liquid slurries and fiber applications with low-allowable leakage the Valves are most commonly used.



Manual, Gear, Pneumatic, Electrical Actuator and Hydraulic equipment devices are provided for operation of the Valves. For elevated mounting, Chain Driven Valves are also provided.

Our product range covers Valves of sizes up to 36" [DN900] and ASME classes up to 150, PN 10 and PN 16. Based on customer requirements, Valves in different pressure classes, larger sizes and other materials are also offered. We manufacture this Valve according to MSS SP - 81 designing and manufacturing standards.

☒ Uni-directional Type Knife Gate Valve

☒ Bi-Directional Type Knife Gate Valve

☒ Square & Rectangle Type Knife Gate Valve

☒ Fabricated Type Knife Gate Valve

Technical Specification

Sizes	DN50 to DN900 (NPS 2 to NPS 36)
Pressure Rating	Class 150 & PN10 / PN 16
Material Construction	Cast Carbon Steel – WCB, WCC, etc. Low Carbon Steel – LCB, LCC, etc. Austenitic Stainless Steel – CF8, CF8M, CF3, CF3M, CN7M, CG3M, etc. Duplex Stainless Steel – CD4MCuN, CD3Mn, etc. Ductile Iron - Grey Cast Iron, S.G. Iron, etc. Fabricated – Carbon Steel, etc.
Design & Manufacturing Standard	MSS SP - 81
Face to Face Std.	MSS SP - 81
End Connection Std.	MSS SP - 81 / Flanged Ends as per ASME B16.5& ASME B16.10, PN 10 / PN 16 & TABLE - D & TABLE - E
Testing Standard	API 598 / MSS SP - 81 / MSS SP - 61
Type of Bore	Standard (Full Bore)
End Connection Type	Wafer Type, Lugged Type, Flanged Ends, etc.
Seat Design	Integral Metal Seated, Integral Weld Deposited, Replaceable Metal Seated, Replaceable Soft Seated as like, PTFE, RPTFE, EPDM, Nitrile, Viton, etc.
Operated Type	Hand Wheel, Chain Wheel, Gear, Pneumatic Cylinder, Electric Actuator, Hydraulic Cylinder, Bare Shaft, etc.



Ball Valves are designed and manufactured in accordance with latest International Standards like API 6D, API 608, BS EN ISO 17292 and BS 5351 to provide higher safety, efficiency and accuracy.

Ball Valves regulate and control the flow of various fluids by the process of opening and closing of Valve. The offered Valves are highly demanded in the market for their dimensional accuracy, excellent performance and minimum maintenance.

The **"AXEGIC"** Ball Valves are economically priced and designed to last. These Valves provide exceptional performance in even the most stringent applications found in the Oil & Gas Industry and other Industries. We offer a wide variety of optional seat and seal materials.

We are manufacturing Ball Valves in Single Piece, Two-Piece & Three-Piece Cast Steel Constructions. These Valves are manufactured to the highest possible quality standard. Many of our threaded and socketweld Ball Valves are manufactured according to the ASME B16.34 design standard. These Valves provide the exceptional performance in even the most stringent applications found in the Oil & Gas Industry and other Industries.



Trunnion Mounted Ball Valve

Trunnion Mounted Ball Valve is engineered under the strict supervision of experienced quality controllers, these are precisely engineered using finest quality materials and many other allied components. These are engineered using best available cutting-edge technology and following International Industrial Standard. These are widely recommended by clients owing to its application specific design, robust construction, long service life, precise design and consistent performance. These are featured with Full Bore, Reduce Bore, blow out proof stem, low torque, trunnion mounted design stem for high functional efficiency. Besides all these, these are 100% corrosion resistant and acclaimed for application specific design and corrosion resistance.

Fire Safe Design

Our Fire Safe Ball Valves seats and all packing are designed and manufactured to withstand the maximum temperature. Fire Safe test was conducted as per API 607 standard. We assure highest standard of safety and also offers to supply Valves with third party inspection or customer inspection on request. We have an experience of 3rd Party Fire Safe Test Inspection with DNV, Bureau Veritas, IRS, Tata Projects Ltd. etc.

Jacketed Type Ball Valve

Jacketed Ball Valves are designed in Single-Piece Welded Jacket construction for Standard Bore Valves. The jacket extends from one flange to other which is generally oversize with face to face dimension of corresponding Valve. The jacket comes in two-piece construction welded together. The jackets of the Valves can be rated for heat transfer media pressure up to 22 bars, In Standard design the jacket is rated at 10.3 bars. The Valve can also be used in FDA / Sanitary Applications. Jacketed Ball Valves to handle highly viscous materials or materials that solidify at ambient temperatures are available for use with steam or another heat transfer media.

Technical Specification

Sizes	DN15 to DN600 (NPS 1/2 to NPS 24)
Pressure Rating	Class 150, 300, 600, 900, 1500 & PN10 / PN 16
Material Construction	Cast Carbon Steel – WCB, WCC, etc. Low Carbon Steel – LCB, LCC, etc. Martensitic Steel – WC1, WC6, WC9, C5, C12, CA15, etc. Austenitic Stainless Steel – CF8, CF8M, CF3, CF3M, CN7M, CG3M, etc. Duplex Stainless Steel – CD4MCuN, CD3Mn, etc. Ductile Iron - Grey Cast Iron, S.G. Iron, etc.
Design & Manufacturing Standard	BS EN ISO 17292 / API 6D / API 608
Face to Face Std.	ASME B16.10 / API 6D / BS EN ISO 17292
End Connection Std.	Flanged to ASME B16.5, Screwed Ends to ANSI B1.20.1 & BS 84, Socket Weld Ends to ASME B16.11, Butt Weld Ends to ASME B16.25, BS, DIN & PN Rating Standard.
Testing Standard	API 598 / BS 6755 Part-I
Type of Bore	Regular (Reduced) & Standard (Full Bore)
End Connection Type	Flanged Ends, Screwed Ends, Socket Weld Ends, Butt Weld Ends, Victaulic Ends, Tri-Clover Ends, etc.
Seat Design	Soft Seat – PTFE, RPTFE, PEEK, etc. Fire Safe Design, Spring Loaded Type, etc.
Operated Type	Hand Lever, Gear, Pneumatic Actuator, Electric Actuator, Bare Shaft, etc.

BUTTERFLY VALVE

Butterfly Valves are having variety of applications in Process Industries, Water Treatment, Sewage Plants, Power, Petrochemicals, Steel Plants and allied industries in a very large quantity. All type of Butterfly Valves are available with control type lever, Manual Gear, Pneumatic and Electric Actuators. We offer Butterfly Valves in cryogenic type of design.

A Butterfly Valve is a flow regulating disc Valve. According to the BVAA, a Butterfly Valve is “a Valve in which the obturator rotates about an axis at right angles to the direction of flow and, in the open position flow passes around the obturator.” Butterfly Valves operate similar to Ball Valves in their 90-degree rotation and allow for quick shutoff.

Butterfly Valves have gained popularity over the years due to their thin profile between flanges, making them lighter in weight and creating a smaller install footprint. This compact design also usually makes the initial cost for these Valves lower when compared to other Valve designs.

There are different types of Butterfly Valves and each type has unique design features and applications. Each type is defined by the orientation of the stem to the disc and the seating angle that the disc closes on.

Concentric Disc Butterfly valve

Concentric Disc Butterfly Valve is widely used in water treatment and other industries, because of its advantages: light weight, small size and easy for installation, low cost. The most basic Butterfly Valve design is commonly called a concentric or resilient-seated Butterfly Valve. In this type of Valve, the stem is centered in the middle of the Valve disc, which is centered in the pipe bore. This Valve typically has a rubber (or resilient) seat and relies on the disc having a high level of contact with the seat to affect a seal.



The Valves are provided with integrally moulded elastomer body liner for perfect seating and complete isolation of body material from fluid media. No gaskets are required as the body liner effects a perfect seal between the valve body and the mating pipe flanges. Sealing is provided by preloaded contact between flat seat surface and rounded polished disc hub area. Valves are designed and manufactured as per BS 5155/API 609/AWWA C504. The Valves are available for all fluid service requirements with suitable body liner, disc material combinations for upto 210deg. C in PN6, PN 10, PN 16, ANSI 125 & 150 rating. Other special materials and design are also provided according to the customer's requirement.

Offset Disc Butterfly Valve

In a single-offset Butterfly Valve, the stem is located behind the disc. There are few, if any, Valves of this type left on the market today due to the development of the double-offset, or high-performance, Valve. The single-offset of the stem causes the disc to contact the seat with three to four degrees left to travel with the idea that less seat contact will enable the Valve to last longer.

Offset Disc Butterfly Valves are designed to withstand higher pressure than the concentric disc design. In this design, the disc remains in contact with the seat only during closing of the Valve. Due to this design, the seat lasts for longer period than in Concentric Disc design. Offset disc Butterfly Valves are suitable to replace the sealing element as and when required.



Double Offset Disc Butterfly Valve

The double-offset or high-performance Butterfly Valve has a disc with two offsets. The double-offset Butterfly Valve is used in systems requiring higher pressure resistance. The disc is positioned in the center of the pipe bore and arranged to increase sealing ability and decrease wear to the Valve. High-performance Butterfly Valve is ideal for handling water, oil, steam, and gas in a cost effective, light weight design. The Butterfly Valve's corrosion-resistant, single-component thrust bearing /disc spacer reduces body wear and helps ensure positive centring of disc in the Valve bore.

Double-offset Butterfly Valves are available in a large range of materials required for critical process in diverse industries such as Cement, Power, Chemicals & fertiliser, Water treatment, etc. Based on customer requirements, Valves in higher pressure classes, larger sizes and other materials are also offered. The range comprises Valves for cryogenic services also.



Triple Offset Disc Butterfly Valve

Triple eccentric (offset) Design prevents galling and scratches between the metal seat and the metal disc due to its unique design. The seats are either laminated or solid metal seat design. The only time where the seal comes into contact with the seat is at the point of complete closure. Triple Offset Valves are generally used in applications which require bi-directional tight shut-off in oil and gas, LNG/NPG terminal and tanks, chemical factories, and shipbuilding. They are also used for dirty/heavy oil to prevent extrusion.

With the Triple Offset Butterfly Valve there are three offsets. Two are placed in a similar position to the Double Offset Butterfly Valve, while the third offset is the geometry of the seating surface, creating a type of cone shape of the disc and seat. This cone angle, along with the two eccentric shaft offsets, allows the disc to seal against the seat with no friction.

Triple Offsets are generally used in applications similar to Gate Valves, where a metal seat is required, and tight shutoff and/or quarter turn actuation is desired. Applications like high pressure steam (over 150 PSI), superheated- steam, high temperature gases and oils, high temperature applications are good for this type of Valve because a metal seat is required over a soft seat.

The Triple Offset Valve is used in similar industries as the Double Offset Butterfly Valve, but in more demanding applications.

Technical Specification

Sizes	DN40 to DN900 (NPS 1.1/2 to NPS 36)
Pressure Rating	Class 150 & PN10 / PN 16
Material Construction	Ductile Iron - Grey Cast Iron, S.G. Iron, etc. Cast Carbon Steel – WCB, WCC, etc. Low Carbon Steel – LCB, LCC, etc. Martensitic Steel – WC1, WC6, WC9, C5, C12, CA15, etc. Austenitic Stainless Steel – CF8, CF8M, CF3, CF3M, CN7M, CG3M, etc. Duplex Stainless Steel – CD4MCuN, CD3Mn, etc.
Design & Manufacturing Standard	BS 5155, API 609, AWWA C504
Face to Face Std.	BS 5155, API 609, AWWA C504
End Connection Std.	BS 5155, API 609, AWWA C504, ASME B16.5 & ASME B16.10
Testing Standard	API 598
Type of Bore	Standard (Full Bore)
End Connection Type	Wafer Type, Lugged Type, Flanged Ends, etc.
Seat Design	Soft Seat – EPDM, Nitrile, Viton, PTFE, RPTFE, Metal Seated, Graphite Seated, etc.
Disc Design	Centre Disc, Offset Disc, Double Offset Disc, Triple Offset Disc,
Operated Type	Hand Lever, Gear, Pneumatic Actuator, Electric Actuator, Bare Shaft, etc.

Gate Valves

We are providing a wide range of Gate Valve such as Rising Stem, Bolted Bonnet, OS & Y Type Jacketed Gate Valve with Flexible Wedge Gate and Seat Rings seal-welded or integral design. Flanged End Gate Valve, Screwed Gate Valve, Butt Weld End Gate Valve, Socket Weld End Valve, our Valves are used widely in a host of Industries. These dimensionally accurate Gate Valve are available at the industry leading prices

The Gate Valve's Body and bonnet - Cast with uniform sections, precision machined. Body: Straight through port without recesses except in the seat area - Minimum resistance to flow, turbulence and erosion. Flex wedge: Guide slots in the wedge engage with integral guide ribs in the body, Stem-to-wedge contact close to wedge centre - Better sealing, smoother operation. Seal-welded Seat Ring - Eliminates leakage path between seat ring and body, does not loosen up due to temperature fluctuations or vibration. Stem - One-piece construction with forged T-head - Long service life, smoother operation.

Designed for high pressure and high temperature applications, for a wide range of fluids except slurries and viscous fluids. These Valves are generally used in the wide open or closed position, are not recommended for throttling service because throttling causes disc chattering and vibration which is likely to erode the seating surface and cause leakage. The range comprises Valves for cryogenic services, NACE Specifications (MR-01-75), Position Indicator, Drain plug & Bypass Arrangement.



Rising & Non-Rising Gate Valve

There are mainly two types of Gate Valves – the Rising Stem Gate Valve and Non-Rising Stem Gate Valve. Rising stem Gate Valves have the threads external to the Valve body. You can see the Valve stem is moving up when the Valve is opening. In this way, you can visually keep track of how far the Valve is open.

Non-Rising Stem Gate Valves have threads that lift the gate is exposed to the fluid being controlled by the Valve. This can cause problems if the fluid tends to foul the threads, so Non-Rising Stem Valves are usually used on only clean liquids and gases.

Jacketed Type Gate Valve

Jacketed Gate Valve largely uses to sustain process media temperature during process to keep fluids at a lower viscosity to operate Valve smoothly. Each Full Jacketed Gate Valve body construction replaces by adding minimum one size higher flanges to achieve proper tighten space of bolt and nut.

Steam and Hot Oil Jacketed Gate Valves mostly use in application of Polymer, Bitumen, Liquid Asphalt, Coal tar, Lactam, Highly Viscous Media, Molten Sulphur or Sulphur. All Jacketed Gate Valves have standard Inlet & Outlet connection for Steam or Hot Oil circulation. Jacket connection can be Threaded (BSP / NPT Female) or Flanged End.

Technical Specification

Sizes	DN25 to DN600 (NPS 1 to NPS 24)
Pressure Rating	Class 150, 300, 600, 900, 1500 & 2500
Material Construction	Cast Carbon Steel – WCB, WCC, etc. Low Carbon Steel – LCB, LCC, etc. Martensitic Steel – WC1, WC6, WC9, C5, C12, CA15, etc. Austenitic Stainless Steel – CF8, CF8M, CF3, CF3M, CN7M, CG3M, etc. Duplex Stainless Steel – CD4MCuN, CD3Mn, etc. Nickel-Copper Alloy – Monel 400, Nickel-Copper-Aluminium Alloy – Monel 500, Ductile Iron - Grey Cast Iron, S.G. Iron, etc.
Design & Manufacturing Standard	API 600, API 603
Face to Face Std.	ASME B16.10
End Connection Std.	Flanged to ASME B16.5, Screwed Ends to ANSI B1.20.1 & BS 84, Socket Weld Ends to ASME B16.11, Butt Weld Ends to ASME B16.25, BS, DIN & PN Rating Standard.
Testing Standard	API 598
Type of Bore	Standard (Full Bore)
End Connection Type	Flanged Ends, Screwed Ends, Socket Weld Ends, Butt Weld Ends, Victaulic Ends, etc.
Valve Design	Rising Stem, Non-Rising Stem Flexible Wedge, Solid Wedge
Operated Type	Hand Wheel, Gear Box, Electric Actuator, Bare Shaft, etc.

GLOBE VALVE

Globe Valves are Outside Screw, Rising Stem, Bolted Bonnet Construction, threads are away from the line fluid and easy to lubricate. Globe Valves are generally available with Plug Type Disc, which is designed to give leak tight seating over a long period of in built wear life. Globe Valves body seat ring is shoulder type, threaded body seat ring which has large taper area that is for ample seating. Two nos. slots are provided on body seat ring, which is for easy removal for servicing at site.

Designed for least possible obstruction to free flow by providing curvature turns in the body thereby minimising stresses & turbulence. The plug & seat-ring are machined and lapped very precisely to get a very tight sealing when Valve is closed. Designed and manufactured to the highest standards of quality and durability.



Design Features of Cast Steel Globe Valves :-

A. Stem nut uses aluminum bronze material. Large Valve is provided with thrust bearing to make it opened easily and flexibly.

B. Two-piece design of packing gland to avoid stem clogging caused by squishing.

C. Packing uses flexible graphite for dependable sealing performance. If requested by users, packing spacer ring and greasing mechanism can be available.

D. Back seal design to ensure dependable packing and sealing when Valve is fully opened. (Replacement of packing under pressure is not recommended).

E. Lift stem, with a piece of hard stainless steel inlaid between stem head and disc to avoid deformation caused by extrusion, and corrosion leading to inflexibility of disc action.



Types of Disc

The seal of Globe Valve is mainly designed to the following two types

- Flat Seal / Sphere Type
- Conical Seal

Types of Valves

- Angle Type
- Diverting Type
- DIN Type
- Jacket Type

Technical Specification

Sizes	DN25 to DN600 (NPS 1 to NPS 24)
Pressure Rating	Class 150, 300, 600, 900, 1500 & 2500
Material Construction	Cast Carbon Steel – WCB, WCC, etc. Low Carbon Steel – LCB, LCC, etc. Martensitic Steel – WC1, WC6, WC9, C5, C12, CA15, etc. Austenitic Stainless Steel – CF8, CF8M, CF3, CF3M, CN7M, CG3M, etc. Duplex Stainless Steel – CD4MCuN, CD3Mn, etc. Nickel-Copper Alloy – Monel 400, Nickel-Copper-Aluminium Alloy – Monel 500, Ductile Iron - Grey Cast Iron, S.G. Iron, etc.
Design & Manufacturing Standard	BS 1873
Face to Face Std.	ASME B16.10
End Connection Std.	Flanged to ASME B16.5, Screwed Ends to ANSI B1.20.1 & BS 84, Socket Weld Ends to ASME B16.11, Butt Weld Ends to ASME B16.25, BS, DIN & PN Rating Standard.
Testing Standard	API 598 / BS 6755
Type of Bore	Standard (Full Bore)
End Connection Type	Flanged Ends, Screwed Ends, Socket Weld Ends, Butt Weld Ends, Victaulic Ends, etc.
Operated Type	Hand Wheel, Gear Box, Electric Actuator, Bare Shaft, etc.

NON-RETURN VALVE

A Non-Return Valve allows a medium to flow in only one direction. A Non-Return Valve is fitted to ensure that a medium flow through a pipe in the right direction, where pressure conditions may otherwise cause reversed flow.

A Non-Return Valve can be fitted to ensure that a medium flow through a pipe in the right direction, where pressure conditions may otherwise cause reversed flow. A Non-Return Valve allows a medium to flow in only one direction. The flow through the Non-Return Valve causes a relatively large pressure drop, which has to be taken into account when designing the system.



Non-Return Valves are e.g. used with mixing loops in heating and cooling systems to ensure proper operation, and with domestic water systems to prevent backflow. There are different types of Non-Return Valves, such as

Swing Check Valve

A Swing Check Valve is normally recommended for use in systems employing Gate Valves because of the low pressure drop across the Valve. In either style, the disk and hinge are suspended from the body by means of a hinge pin. Seating is either metal to metal or metal seat to composition disk. Composition disks are usually recommended for services where dirt or other particles may be present in the fluid, where noise is objectionable, or where positive shutoff is required.

The disc in a Swing type Check Valve is unguided as it fully opens or closes. There are many disk and seat designs available, in order to meet the requirements of different applications. The Valve allows full, unobstructed flow and automatically closes as pressure decreases. These Valves are fully closed when flow reaches zero, in order to prevent backflow. Turbulence and pressure drop in the Swing Check Valve are very low.



Dual Plate Check Valve

The Dual Plate Check Valve is an all-purpose Non-Return Valve that is much stronger, lighter in weight and smaller in size compared to a conventional Swing Check Valve. The Dual Plate Check Valve design is the result of attempts to solve the problems associated with Swing Check Valve and Lift Check Valve. The Dual Plate Check Valve employs two spring-loaded plates hinged on a central hinge pin. When the flow decreases, the plates close by torsion spring action without requiring reverse flow. This design offers the twin advantages of No Water Hammer and Non-Slam simultaneously. All features put together make the Dual Plate Check Valve one of the most efficient design.



Wafer Type Check Valve / Single Disc Check Valve

The Wafer Type Check Valve is known as Spring Loaded Flap Type Check Valve used to prevent backflow in water and sea water systems and can be used in other applications providing the Valve materials are compatible with the media.

It can be fitted in the horizontal position or in the vertical position with the flow going upwards. Suitable for fitting between PN10/PN16 Flanges. Space saving product.



Spring Loaded / Non-Slam Check Valve

A good quality Stainless-Steel Check Valve with Spring Loaded its known as Non-Slam Check Valve also. It is suitable for use on a wide range of fluids for applications in process lines, hot water systems, Steam, Oil, Process applications and Condensate Systems.

The Spring-Loaded Check Valve suitable for fitting between ANSI 150, 300 and PN10/16/25/40. Its available in Metal Seated, Soft Seated and Disc Configuration. The Spring-Loaded Check Valve can be installed in any position.



Technical Specification

Sizes	DN15 to DN600 (NPS 1/2 to NPS 24)
Pressure Rating	Class 150, 300, 600, 900, 1500 & 2500
Material Construction	Cast Carbon Steel – WCB, WCC, etc. Low Carbon Steel – LCB, LCC, etc. Martensitic Steel – WC1, WC6, WC9, C5, C12, CA15, etc. Austenitic Stainless Steel – CF8, CF8M, CF3, CF3M, CN7M, CG3M, etc. Duplex Stainless Steel – CD4MCuN, CD3Mn, etc. Nickel-Copper Alloy – Monel 400, Nickel-Copper-Aluminium Alloy – Monel 500, Ductile Iron - Grey Cast Iron, S.G. Iron, etc.
Design & Manufacturing Standard	BS 1868, API 594, API 6D, DIN 3230
Face to Face Std.	ASME B16.10 / API 60 / BS 1868
End Connection Std.	Flanged to ASME B16.5, Screwed Ends to ANSI B1.20.1 & BS 84, Socket Weld Ends to ASME B16.11, Butt Weld Ends to ASME B16.25, BS, DIN & PN Rating Standard.
Testing Standard	API 598
Type of Bore	Standard (Full Bore)
End Connection Type	Flanged Ends, Screwed Ends, Socket Weld Ends, Butt Weld Ends, Victaulic Ends, etc.
Operated Type	Self Operated

PULP VALVE

We provide Pulp Valves that have wrought Pulp Valves and Paper Pulp Valves. These Valves are accepted for its high strength and corrosion resistance.

The Pulp Valve designed specifically for the pulp and paper industry. We have designed and engineered products and features uniquely adapted to pulp and paper processing. These Valves substantially reduce downtime and maintenance costs and consistently outlive their payback period. Through testing and application, we continue to solve countless problems associated with pulping, bleaching, dewatering, recovery, paper making, and recycling. Our Valves are designed to provide long life in an industry where life expectancy of equipment is exceedingly low.



Technical Specification

Sizes	DN50 to DN600 (NPS 2 to NPS 24)
Pressure Rating	Class 150 / PN 10 & PN 16
Material Construction	Cast Carbon Steel – WCB, WCC, etc. Austenitic Stainless Steel – CF8, CF8M, CF3, CF3M, CN7M, CG3M, etc. Ductile Iron - Grey Cast Iron, S.G. Iron, etc.
End Connection Std.	ASME B16.5, PN10 / PN16, Table D / Table E
End Connection Type	Wafer Type, Lugged Type, etc.
Operated Type	Hand Wheel

PLUG VALVE

Plug Valves seat and plug face are offset from the shaft centerline to provide tight shut off and wear resistance. Our Plug Valves have a specially designed plug moving in and out of the seat with minimal contact, resulting in low operating torque. Eccentric Plug Valves are for systems where slurries, grit or solids are present. It is a quarter turn Valve allowing cost effective solution with low torque actuation for pump control, shut-off and throttling operation.



Technical Specification

Sizes	DN50 to DN300 (NPS 2 to NPS 12)
Pressure Rating	Class 150
Material Construction	Cast Carbon Steel – WCB, WCC, etc. Austenitic Stainless Steel – CF8, CF8M, CF3, CF3M, CN7M, CG3M, etc. Ductile Iron - Grey Cast Iron, S.G. Iron, etc.
Design & Manufacturing Standard	BS 5353, API 599, API 6D
Face to Face Std.	ASME B16.10 / API 60
End Connection Std.	Flanged to ASME B16.5, Screwed Ends to ANSI B1.20.1 & BS 84, Socket Weld Ends to ASME B16.11, Butt Weld Ends to ASME B16.25, BS, DIN & PN Rating Standard.
Testing Standard	API 598
End Connection Type	Flanged Ends etc.
Operated Type	Wrench Operated

NEEDLE VALVE

An instrument Needle Valve uses a tapered pin to gradually open a space for fine control of flow. The flow can be controlled and regulated with the use of a spindle. A Needle Valve has a relatively small orifice with a long, tapered seat, and a needle-shaped plunger on the end of a screw, which exactly fits the seat.



Technical Specification

Sizes	DN6 to DN50 (NPS 1/4 to NPS 2)
Pressure Rating	Class 150, 300, 600, 800 & 1500
Material Construction	Carbon Steel, Stainless Steel – SS304, SS316, SS304L, SS316L, etc. Duplex Stainless Steel – SS2205, etc.
Testing Standard	API 598
End Connection Type	Screwed Ends to ANSI B1.20.1 & BS 84, Socket Weld Ends to ASME B16.11
Operated Type	Hand Lever Operated

FOOT VALVE

Foot Valves are a form of Check Valve, installed at the bottom of Pump suction line, inside the wet well. Foot Valves are an inexpensive way to prime a single centrifugal pump. Since Foot Valves are continuously submerged in the wet well and not readily accessible for inspection or repair, it is important to select a Foot Valve of high quality long wearing construction.

These Valves are designed with perfect flat seating for better sealing. With a pressure rating of PN 0.2 these Valves are widely used in suction side of pump to avoid flow reversal. Foot Valves often used in water wells, Foot Valves can be used for many systems where a liquid needs to be pumped from a lower level holding area.



Technical Specification

Sizes	DN50 to DN300 (NPS 2 to NPS 12)
Pressure Rating	Class 150
Material Construction	Cast Carbon Steel – WCB, WCC, etc. Austenitic Stainless Steel – CF8, CF8M, CF3, CF3M, CN7M, CG3M, etc. Ductile Iron - Grey Cast Iron, S.G. Iron, etc.
Testing Standard	API 598
End Connection Type	Flanged Ends, Screwed Ends, Socket Weld Ends etc.

PRESSURE RELIEF / SAFETY VALVE

A Relief Valve or Pressure Relief Valve (PRV) is a type of Safety Valve used to control or limit the pressure in a system; pressure might otherwise build up and create a process upset, instrument or equipment failure, or fire.

The pressure is relieved by allowing the pressurised fluid to flow from an auxiliary passage out of the system. The Relief Valve is designed or set to open at a predetermined set pressure to protect pressure vessels and other equipment from being subjected to pressures that exceed their design limits. When the set pressure is exceeded, the Relief Valve becomes the "path of least resistance" as the Valve is forced open and a portion of the fluid is diverted through the auxiliary route.



Technical Specification

Sizes	DN15 to DN300 (NPS 1/2 to NPS 12)
Pressure Rating	Class 150, 300, & 600
Material Construction	Cast Carbon Steel – WCB, WCC, etc. Austenitic Stainless Steel – CF8, CF8M, CF3, CF3M, CN7M, CG3M, etc.
Design & Manufacturing Standard	API 520
Face to Face Std.	API 520
End Connection Std.	ASME B16.5
Testing Standard	API 527 / API 520
End Connection Type	Flanged to ASME B16.5, Screwed Ends to ANSI B1.20.1 & BS 84, Socket Weld Ends to ASME B16.11, Butt Weld Ends to ASME B16.25, BS, DIN & PN Rating Standard.
Operated Type	Self

PIPE FITTINGS & ACCESSORIES

We are dealing with welded and seamless butt-weld fittings and forged fittings, such as carbon / stainless steel elbows, tees, reducers, caps, pipe bends, dish ends and pipe sleeve as per ASME / ASTM, DIN and other known specifications.

The wide range of products offered by us include Industrial Flanges like Companion slip-on flanges, Threaded Flanges, Weld Neck Flanges, Socket Weld Flanges, Blind Flanges, etc.

The Pipe & Fittings are widely used in Nuclear Power Stations, Power Plants, Paper Manufacturing, Oil Refineries, Petro Chemical Plants and other Gas Pipeline Projects. We are always focus on providing high-quality and high-performance fittings.



An ISO 9001:2015 for design, production and after sales for Industrial Products.

“AXEGIC” is an ISO 9001:2015 Quality System accredited company : our Quality Assurance department works to ensure that all engineering, manufacturing and testing activities are conducted in order to meet the requirements of ISO 9001 as fundamental of our Quality Management System with particular emphasis on the need for risk assessment in organization management which involves planning, motivating and controlling actions focused on meeting the organization’s objectives. ISO accreditation ensures a customized high-quality service, performed by experienced personnel, to support and satisfy our Customers and their Commitments expectations, with safe company operation aimed at obtaining of higher profits with better use of resources and more conscious decision making with shorter reaction time.

We have our own in-house testing department; all Inspections and Tests are performed by qualified Level II and experienced personnel in line with project specifications and data sheets in order to satisfy our Customers and their Commitments expectations. A Quality Control Plan (QCP) and an Inspection and Test Plan (ITP) appropriate to the scope of supply can be issued for Client approval before starting of production activities.

The following tests can be performed according to API 598, API 6 Dor to customer specific requirements:

- Hydrostatic testing
- Pneumatic testing
- Antistatic testing
- Torque testing

The following tests can be performed by Level II qualified personnel in accordance with EN473-ISO9712 / SNT-TC-1A:

- VT (Visual testing)
- UT (Ultrasonic testing)
- PT (Penetrant testing)
- MT (Magnetic particle testing)
- PMI (Positive Material Identification)
- Hardness test
- Ferrite test

Thanks to a strong co-operation with Chemical Laboratories for the following tests can be performed according to Customer’s and project specification requirements:

- Mechanical and Impact test
- Chemical analysis check
- Corrosion tests
- Micro examinations
- Ferrite check
- Hydrogen-Inducted Cracking test (HIC)
- Sulphide Stress Corrosion Cracking (SSCC)

**Our Policy & Aim is
“Committed to Excellence and
Customer Satisfaction”**

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