



Bringing Global Precision...

COMPANY PROFILE



CRESCENT VALVES



CRESCENT VALVES



CRESCENT VALVES MFG. CO. PVT. LTD.

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About Crescent

In every towering epic of growth in the beginning was a vision, a dream to excel, the desire to succeed. At Crescent Valves this unflinching will to grow has been the story during every moment of its 60 year existence. A growth that has been nurtured by a strong commitment to quality. A far-sighted management professing to this creed of quality has steered Crescent to a pinnacle position in the Flow Control Industry.

History

The Crescent story is one of humble beginnings. From a company with a small outlay, today, Crescent Valves possesses multiple manufacturing units in Ahmedabad with tie up facilities in Mumbai. With its arsenal of sophisticated equipment and experienced personnel, Crescent has earned and successfully executed prestigious Power, Oil, Steel and Petrochemical projects in India.

GLOBALLY, CRESCENT HAS ESTABLISHED GROWING MARKETS IN THE MIDDLE EAST, SOUTH EAST ASIA, AFRICA, U.S.A. EUROPE AND JAPAN.

Stringent fault detection techniques guarantee that every single valve carries the stamp of precision. Elaborate quality control procedures are in the state Level of technically proficient personnel. They are backed by an arrange of advanced testing machines. With such levelx of quality assurance, Crescent Valves lax won approvals from ARAMCO (Saudi Arabia), ADNOC (UAE), KNPC, Qatar Petroleum, TAKREER, IOCL, ONGC, NTPC, EIL, Burean Veritas, Lloyd, PDIK, MECIN, MN DASTOOR and India Boiler Regulation.

The obsession with quality has ensured Crescent international repute. All valves are manufactured as per International standard: API, IS, ANSI, AWWA, MSS, BS, DIN, ISO and JIS.



Company Profile

Founded in 1951, crescent has evolved itself from a trading company to a leading manufacturer of flow control equipment's globally, offering a large variety of standard & custom designed high precision valves conforming to international quality standards. Our company is recognized for innovative, high quality products.

Product design and materials technology have been in the forefront of our valve development fundamental. Innovative seat design, leak tight properties and the integration of the latest materials technologies into our product designs and has produced a range of valves that offer proven reliability and performance for many applications within the process industries.

Our products assure reliability, durability & increased accuracy. All of our products work to enhance our customer's profitability and cost savings due to energy loss.

Vision: To develop our technologies to adhere to Customers that require our products for the most severe service applications, to continuously challenge ourselves for quality perfection and reduction in RMA, to contribute in the improvement of ancillary services and technical inputs during the engineering stages of projects thus evolving from valve suppliers to Pipeline solutions turnkey providers.



Company Snapshot

★ Capabilities: We provide a complete range Services to serve our customer's better.

- Engineering and Design
- Custom Manufacturing to tailor service requirement
- Inspection & Testing
- After Sales & Services

➤ Type of Organization	-	Manufacturer
➤ Constitution Type	-	Private Limited & L.L.P
➤ Registration Number	-	018141
➤ CIN	-	U74999MH1975PTC018141
➤ Incorporation	-	Feb 14, 1975

★ Location -

Registered Office: -

Blue Haven 15, Farooq S Umer Street
Near Y.M.C.A Swimming Pool
Agripada, Mumbai Central
Mumbai - 400011
Maharashtra - India.
Tel: + 91 -22-23014125
Fax: + 91 -22-23014026
E-mail :info@crescentvalves.com

Manufacturing Location: -

20, Shree Hari Kurpa Industrial Park
S.P Ring Road B/h Vatava G.I.D.C
Nr. Baroda Express Way, Hathi Jan
Ahmedabad - 382425
Gujarat - India
Tel: +91-79-29293430/+91-7878693430

Crescent Valves International
Plot No. 348, Kunjad - Bakrol - Dhamatvan Road,
B/h Shilp Industrial Park, Village Dhamatvan,
Tal Daskroi Ahmedabad - 382435 - India

★ Registration Details -

➤ Company registration no.	-	18141
➤ CIN	-	U74999MH1975PTC018141
➤ PAN	-	AABCC1093R
➤ Directorate of Industries	-	16078
➤ NSIC Number	-	NSIC/GP/AHM/2015/0015849
➤ SSI Number	-	24 - 007 - 11 - 47719
➤ IEC Number-CVMC	-	304038083
➤ IEC Number - CVI	-	031502556
➤ Trade Mark	-	1947117 & 1947118
➤ GST Number	-	24AABCC1093R1ZF

★ Bank Detail -

Domestic Transactions -

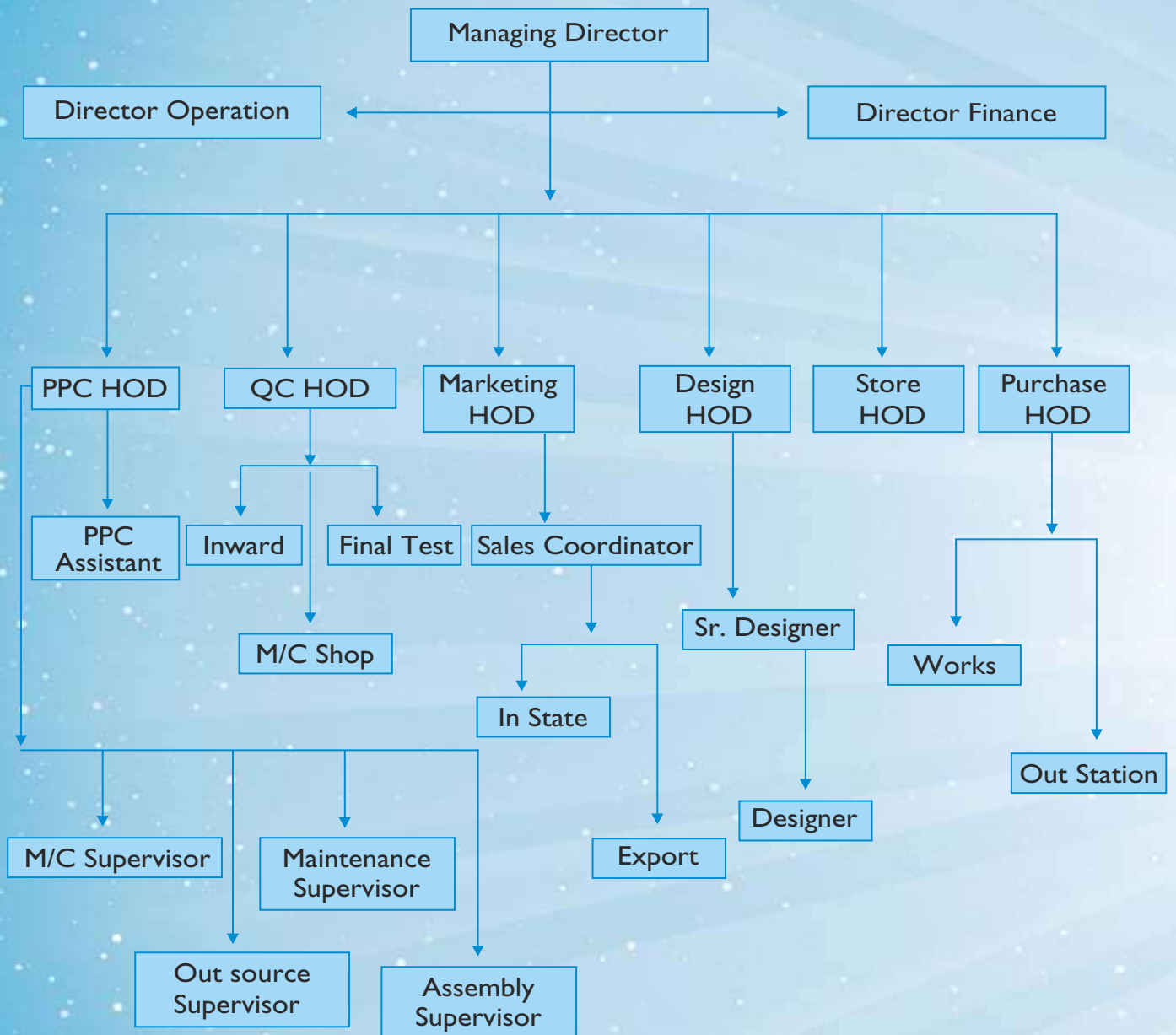
- Beneficiary - Crescent Valves Mfg. Co. Pvt. Ltd.
- Bank Name - Bank of India
- Mandvi Branch
- Current Account No.- 003220110000042
- DIGIT MICR Code. -400013033
- IFSC Code- BKID0000032
- Branch Code - 00320
- Swift Code-BKIDINBBMDV

Export Transactions-

- Beneficiary - Crescent Valves International
- Bank Name - HDFC Bank
- Mumbai Central Branch
- Current Account No. - 50200010941970
- DIGIT MICR Code. -400240071
- IFSC Code- HDFC0000522
- Branch Code - 0522
- Swift Code - HDFCINBB



Organization Chart





Management Detail

Crescent Valves believe in having a balance of youth and experience. Crescent Valves is led by a highly dynamic Management system. We believe in providing the right Kind of environment for team members to innovate and grow and at the same time providing our Customers with the latest trends in Technical solutions.

Key Personnel -

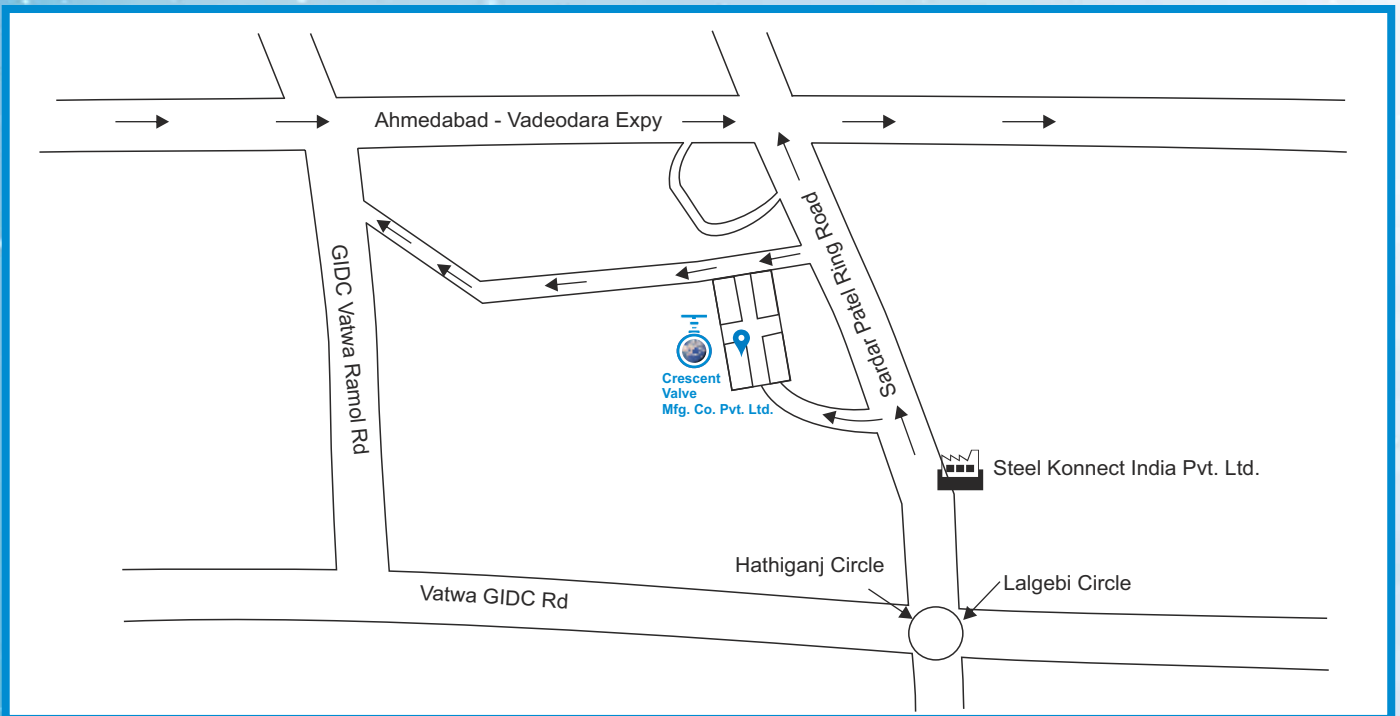
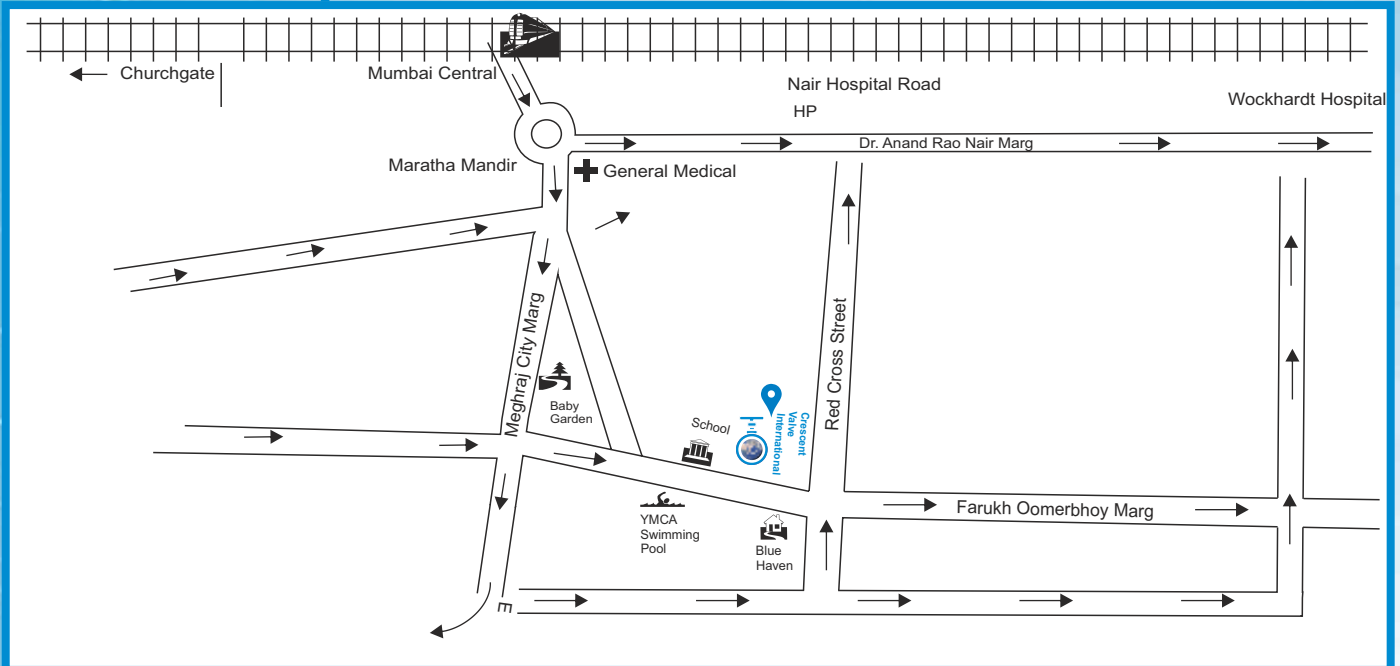
- Mr. Sadiq Hawa : – Managing Director
- Mr. Nihaal Bagadia: – Operations Director
- Mr. Mehboob Shaikh: – General Manager (Marketing)
- Mr. Abdul Rauf Shaikh: – Office Administrative Manager
- Mr. Nagraj Puthran– Production Manager

Infrastructure





Location Map



Plant Detail

Plant 1	Total Area	6600 sqft
	Office Area	1000 sqft
	Manufacturing Area	6000 sqft
Plant 2	Total Area	32725 sqft
	Office Area	4000 sqft
	Manufacturing Area	28500 sqft



Quality Policy

Our goal is to provide highest quality products by assuring their performance, consistency and value. This commitment is rooted in our corporate values and is essential to our continued growth and success. We meet the comprehensive "Global Quality Standards" in the design, manufacturing, and Communication of our products.

“By standardizing our quality requirements we strive towards 'Customer Satisfaction' & 'Customer Trust’”.

Material offered

Crescent offer sand has supplied Materials in all metallic grades Including Titanium, Nickel Aluminum Bronze, Inconel 825 & Inconel 625, Monel K 500 & Monel K 400, Super Duplex, Duplex Stainless Steels, Stainless Steel (CF8M, CF3M, CF8, CF3), Forged Stainless Steel (F316, F316L, F304, F304L, API-60k), Carbon Steel (WCB, WC6, WC9, LCB, LCC, A105, LF2), Ductile Iron, Bronze and Brass.

Our Material is NACE Specification MR-01-75 compliant and Fully Killed.



Product Range

- ✦ Ball Valves
- ✦ Gate Valves
- ✦ Globe Valves
- ✦ Check Valve
- ✦ Control Valve (ESD, Pneumatic, Electrical, Hydraulic) With HART
- ✦ Butterfly Valves
- ✦ Strainer
- ✦ Plug Valves
- ✦ Forged Steel Valves (Gate/Globe/Check)
- ✦ Needle Valves
- ✦ Safety Relief Valves (PSV)
- ✦ Pressure Reducing Valves
- ✦ Diaphragm Valves
- ✦ Air Valves
- ✦ Steam Trap
- ✦ Foot Valves
- ✦ Forged Flanges
- ✦ Transition Pieces



Ball Valves

A Ball Valve is a stop valve in which the closing member, the movable part which blocks the flow is a spherical ball. Sometimes, the ball may be floating or mounted on trunnion support based on sizes and pressures Spring-loaded.

Design Features: Regular Port, Full Bore, 2-piece or 3-piece design. Seats can be of PTFE NYLON, CARBON GRAPHITE etc. suitable for operating conditions. Ball components have a precise finish enabling a high number of valve operation cycles. Continuity between body and ball, ball and stem is provided by an antistatic device. The stem anti blow out design, is mechanically separated with the ball. In case of deterioration of the soft seat due to a prolonged exposure to a fire, a metal to metal contact, between seat and ball will restore the sealing to stop the flow of fluid.

Applications: Petroleum, Power Generation, Chemicals, Fertilizers & Natural Gas / Fuel Oil Control

Operators: Lever Operated Gear, Electrical Actuator and Pneumatic / Hydraulic Actuator.

Special Features: Fire safe, Extended Stem.

Production Capacity	½" to 6" (800 Nos.) Per Month
	8" to 30" (250 Nos.) Per Month
Operator	Lever, Gear, Chain, Pneumatic Actuation, Electric Actuation, Hydraulic Actuation
Temperature range	Up to 280°C
Pressure Rating	Up to 2500#
Design Standard	BS 5351 / API 608 / API 6D
End Connection	Flanged, Butt-weld, Socket, Screwed
Face to Face	API 6D / ANSI B 16.10
Inspection & Testing	API 598/BS 6755





Gate Valves

A Gate Valve, is a valve that opens by lifting a round or rectangular gate/wedge out of the path of the fluid.

Design Features: 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.

Applications: Petroleum, Power Generation, Chemicals, Fertilizer, Steel Industries, Isolation Drain, Shut-Off Valves, Feed Water and Steam.

Operators: Hand wheel, Chain wheel, Gear Electrical Actuator, Pneumatic/Hydraulic, Actuator Operated.

Special Features: Pressure Sealed Joints, Position Indicator, Drain & Bypass arrangement.

Production Capacity	1½" to 10" (1000 Nos.) Per Month 12" to 48" (150 Nos.) Per Month
Operator	Lever, Gear, Chain, Pneumatic Actuation, Electric Actuation, Hydraulic Actuation
Temperature Range	Up to 800°C
Pressure Rating	Up to 2500#
Design Standard	API 600/BS 1414 /API 6D
End Connection	Flanged, Butt-weld, Socket, Screwed
Face to Face	ANSI B 16.10
Inspection & Testing	API 598/BS 6755





Globe Valves

A Globe Valve is used for regulating flow in a pipeline, and consists of a movable disk-type element and a stationary ring-seat, in a spherical body.

Design Features: Designed for least possible obstruction to free flow by providing curvature turns in the body thereby minimizing 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.

Applications: Petroleum, Power Generation, Chemicals, Fertilizers, Steel industry, Natural Gas/Fuel Oil control, Steam Control and Feed Water Control.

Operators: Hand wheel, Chain wheel, Gear Electrical Actuator, Pneumatic/Hydraulic, Actuator Operated.
Special Features: Pressure Sealed Joints/ NACE Specifications (MR-01-75),

Production Capacity	1½" to 10" (800 Nos.) Per Month 12" to 48" (100 Nos.) Per Month
Operator	Lever, Gear, Chain, Pneumatic Actuation, Electric Actuation, Hydraulic Actuation
Temperature Range	Up to 600°C
Pressure Rating	Up to 2500#
Design Standard	BS 1868
End Connection	Flanged, Butt-weld, Socket, Screwed
Face to Face	ANSI B 16.10
Inspection & Testing	API 598/BS 6755





Check Valves

A check valve, clack valve, non-return valve or one-way valve is a valve that normally allows fluid (liquid or gas) to flow through it in only one direction.

Check valves are two-port valves; they have two openings in the body, one for fluid to enter and the other for fluid to leave.

There are various types of check valves used in a wide variety of applications

Swing Check Valves - A Swing Check Valve or tilting disc check valve is check valve in which the disc, the movable part to block the Flow, swings on a hinge or trunnion, either onto the seat to block reverse flow, or off the seat to allow forward flow.

Design features: The body is designed for strength to meet operating conditions, and contoured to minimize erosion and resistance to flow. The disc is opened and sustained in open position by the Velocity pressure of the fluid and closed by the force of gravity. Seating load and resultant tightness is aided by back pressure in the line. The body seat-ring is seal-welded to the body avoiding leakage in the path between the seat ring and the body. The seating surfaces are ground and lapped.

Applications: Chemicals, Fertilizers, Feed Water, Petroleum, Power Generation, Steel Industries and Effluent Treatment Plant.

Production Capacity	2" to 8" (500 Nos.) Per Month 8" to 48" (50 Nos.) Per Month
Operator	Automatic
Temperature Range	Up to 600°C
Pressure Rating	Up to 2500#
Design Standard	BS 1868 / API 6D
End Connection	Flanged, Butt-weld,
Face to Face	ANSI B 16.10
Inspection & Testing	API 598/BS 6755





Dual Plate Valves

The Dual Plate Check Valve is a multi-purpose valve that is stronger, lighter and smaller compared to conventional swing check or lift check valves.

Design Features: Separate springs are provided for each door to close. This reduces and overcomes the frictional coefficient due to one plate resting upon another. The spring life cycle is studied and the dynamic behavior of the valve is recorded. This type of valve prevents flow reversal, functions silently and totally prevents “Water Hammer”.

It's generally light weight, and can be mounted in any direction (Horizontal/Vertical). Also, it has a high CV value and less pressure drop. It's designed for non-slamming action that prevents premature valve failure, and the valve functions silently for longer duration.

Applications: Chemicals, Fertilizers, Refineries, Effluent Treatment Plan.

Operators: Automatic Spring Return

Special Features: Rubber Lined, Soft Seated

Production Capacity	2" to 12" (100 Nos.) Per Month Above 12" (50 Nos.) Per Month
Operator	Automatic
Temperature Range	Up to 600° C
Pressure Rating	Up to 2500#
Design Standard	API 594 / API 6D
End Connection	Flanged, Wafer
Inspection & Testing	API 598





Control Valves

A control valve is a valve used to control media flow by varying the size of the flow passage as directed by a signal from a controller. This enables the direct control of flow rate and the consequential control of process quantities such as pressure, temperature, and media level.

Applications: Chemicals, Fertilizers, Refineries, Water, Oil, Chemical & Petrochemical Plants.

Operators: Opening or closing of automatic control valves is usually done by electrical, hydraulic or pneumatic actuators. Normally with a modulating valve, which can be set to any position between fully open and fully closed, valve positioners are used to ensure the valve attains the desired degree of opening.

Production Capacity	½" to 2" (50 Nos.) Per Month Above 2" (50 Nos.) Per Month
Opeator	Lever, Gear, Chain, Pneumatic Actuation, Electric Actuation, Hydraulic Actuation
Operator	Pneumatic Actuation, Electric Actuation, Hydraulic Actuation
Temperature Range	Up to 180°C
Pressure Rating	Up to 600#
End Connection	Standard BSP (F) NPT, Flanged
Leakage Class	IV for Metal to Metal





Butterfly Valves

A butterfly valve is a valve that isolates or regulates the flow of a fluid. The closing mechanism is a disk that rotates.

Design Features: AWWA Butterfly valves meet the requirement of AWWA C504 Standard. Corrosion resistant shaft stainless steel disc edge and are features on all valves. These valves are suitable for flows in either direction and seal in both directions. The valves can be used for both tight shut off as well as for regulating purpose. Only a quarter-turn is required to fully open or close the valve.

Applications: Intake Water Systems, In Water Treatment Plants, Gases, Oil and Especially Corrosion Fluids.

Operators: Lever, Gear, Electrical Actuator, Pneumatic/Hydraulic, Actuator Operated.

Production Capacity	2" to 20" (300 Nos.) Per Month Up to 48" (100 Nos.) Per Month
Temperature Range	Up to 120°C
Pressure Rating	0 upto 16 Kg/Cm ²
Construction	Wafer/ Lugged / Flanged / Off-set / Centric
End Connection	Flanged/ Wafer Type
Seating Option:	E.P.D.M./Nitrile/NBR/Viton





Strainer

A strainer is a type of perforated metal sieve used to strain or filter out solid debris in the water system. Strainer improves the clearance in the medium, and prolongs the life of valves; protect expensive pumps, meters and other equipment.

We manufacture and export **Y Strainer, Tee Strainer, Basket Strainer** and **Conical Strainer** in different metal grades according to the customer requirements.

Y Strainer: -"Y" Type Strainers are named after their shape and normally used for filtration. The Strainer improves the clearance in the medium, and prolongs the life of valves; protect expensive pumps, meters and other equipment.

Design Features

- "Y" Type Strainers body meets ASME B16.5.
- 316 Stainless Steel mesh screens are standard. Perforated plate screens are optional.
- Drain/Blow-off connection furnished with plug as standard.
- Generous screen area and properly proportioned straining chamber to
- Minimize initial pressure drop while maximizing time between cleanings.
- Compact end to end dimension.

Applications: Water, Air, Gas, petroleum, steam and other fluids.

Production Capacity	1" to 6" (100 Nos.) Per Month Above 6" (50 Nos.) Per Month
Operator	Automatic
Temperature Range	Up to 180°C
Pressure Rating	Up to 1500#
Construction	Y Type
End Connection	Socket / Flanged / Butt Weld





T Strainer

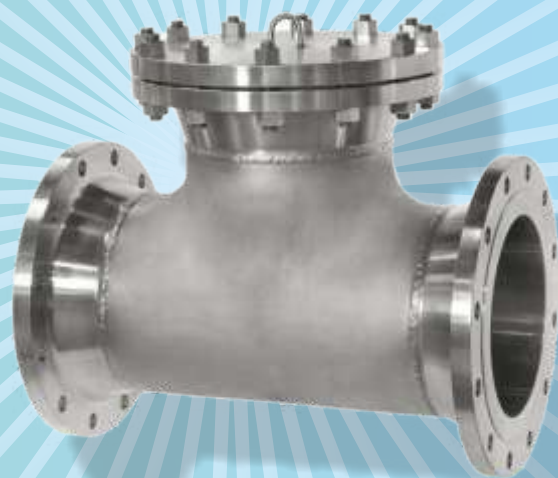
Tee Strainer offers several advantages over other strainer designs. The strainer is very compact, important in applications where space is restricted; Tee Strainer can be used in both vertical and horizontal installations, Tee Strainer is that the strainer screen can be cleaned without draining the strainer vessel.

Design Features -

- "T" Type Strainers body meets ASME B 16.5
- 304 SS or 316SS mesh screens are standard. Perforated plate screens are optional.
- Drain/Blow-off connection furnished with plug as standard.
- Generous screen area and properly proportioned straining chamber to minimize initial pressure drop while maximizing time between cleanings.
- Compact end to end dimension.

Applications - Water, Air, Gas, petroleum, steam and other fluids.

Production Capacity	2" to 6" (100 Nos.) Per Month Above 6" (50 Nos.) Per Month
Temperature Range	Up to 180°C
Pressure Rating	Up to 1500#
Construction	T Type
End Connection	Socket / Flanged / Butt Weld





Basket Strainer

Basket strainer is used where straining & filtering of a wide variety of fluids, to retain solids of almost any size. All baskets are easily removable & cleanable. 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. Basket size can be tailored to hold sufficient solids for the required time between clean outs.

Design Features -

- Basket Strainers body meets ASME B 16.5
- 304 SS or 316SS mesh screens are standard. Perforated plate screens are optional.
- Drain/Blow-off connection furnished with plug as standard.
- Generous screen area and properly proportioned straining chamber to minimize initial pressure drop while maximizing time between cleanings.
- Compact end to end dimension.

Applications - Water, Air, Gas, Petroleum, Steam and other fluids.

Production Capacity	2" to 6" (100 Nos.) Per Month Above 6" (50 Nos.) Per Month
Temperature Range	Up to 180°C
Pressure Rating	Up to 1500#
Construction	T Type
End Connection	Socket / Flanged / Butt Weld





Plug Valves

A Valve with cylindrical or conically tapered "plugs" which can be rotated inside the valve body to control flow through the valve. The plugs in plug valves have one or more hollow passageways going sideways through the plug, so that fluid can flow through the plug when the valve is open. The most common type of plug valve is the 2 port model with an open and closed position.

Plug Valve Type -

Lubricated Plug Valve - A lubricated valve uses a lubricant usually made up of a base oil and viscosity improver (like amorphous or fumed silica) that is injected under pressure between the plug face and body seat to reduce friction and seal ports, We generally recommend lubricant suitable for the process fluid.

Non-Lubricated Plug Valve - A plug valve utilizes a tapered or cone-shape that acts as a wedge and presses a polymeric sleeve against the body cavity. The use of the sleeve reduces friction between the plug mechanism and body. Non-lubricated plug valves are often used instead of lubricated ones in applications where maintenance needs to be kept to a minimum, such special services in Sulphur, hydrogen fluoride, or where liquids could be trapped or solidify and potentially jam the valve.

However, Non-lubricated plug valves are limited by temperature and chemical compatibility of the non-metallic materials.

Types of Non-lubricated plug valves:-

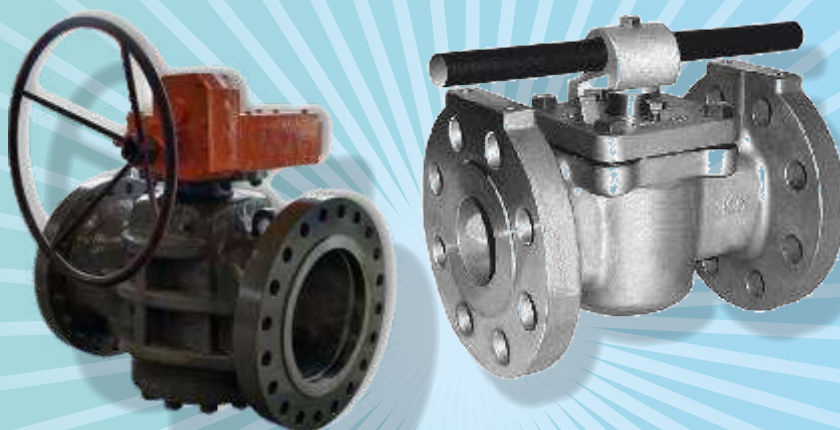
- PTFE Sleeved Plug Valve
- Fully Lined Plug Valve



Additional Design Features - Plug valves are double seated valves which incorporate a cavity between the seats, or above and below the plug; the cavity relief requirements shall be applied.

Non-metal-seated plug valves and non-lubricated plug valves with non-metallic sleeves handling flammable fluids shall be provided with an antistatic device which achieves electrical continuity between the plug, stem and the valve body.

Production Capacity	½" to 6" (200 Nos.) Per Month Above 6" (100 Nos.) Per Month
Operator	Lever, Gear, Chain, Pneumatic Actuation, Electric Actuation, Hydraulic Actuation
Temperature Range	Up to 350°C (Metal to Metal) Up to 180°C (PTFE Sleeved)
Pressure Rating	Up to 1500#
Construction	Bolted Cover
End Connection	Screwed / Socket / Flanged / Butt Weld





Forged Valves - Gate, Globe & Check Valves

Forged Body Valve are generally used in small bore Valves in Screwed, Socket and Butt weld Ends.

Design Features: High-temperature and high pressure Gate, Globe and Check Valves used in most critical steam applications.

Applications: Power, Petroleum, Refineries, Chemicals, Steel Industries, Paper & Pulp Industries.

Special features: Extended Bonnet, Welded Bonnet, Extended Body Valves.

Production Capacity	½" to 2" Higher sizes on demand (2000 Nos.) Per Month
Operator	Lever, Gear, Chain, Pneumatic Actuation, Electric Actuation, Hydraulic Actuation
Temperature Range	< 400° C
Pressure Rating	for up Size 20 NB 4500# for up Size 40 NB 1500# for up Size 50 NB 800#
Construction	Bolted Cover / Welded Cover
End Connection	Screwed / Socket / Weld Flanged / Butt Weld
Mfg. Std.	API 602 / BS 5352
Testing Std.	API 598





Needle Valves -

A needle valve is a type of valve having a small port and a threaded, needle-shaped plunger. It allows precise regulation of flow, although it is generally only capable of relatively low flow rates.

DESIGN -

Needle valves are similar in design and operation to the globe valve. Instead of a disk, a needle valve has a long tapered point at the end of the valve stem. It is also known as Isolation Valve, shut off valve or regulatory valve.

Applications - Needle Valve used anywhere control or metering of Steam, Air, Gas, Oil, Water or other non-viscous liquid.

TYPE -

- Forged Body Needle Valve
- Screwed /Union Bonnet Needle Valves

Production Capacity	1/8" to 1" (600 Nos.) Per Month
Operator	Lever, Gear, Pneumatic Actuation, Electric Actuation.
Temperature Range	< 150 ⁰ C Pressure Rating Up to 10000 PSI
Construction	Union / Bolted Bonnet
End Connection	Screwed / Socket / Weld Flanged / Butt Weld
Mfg. Std.	API 602 / BS 5352
Testing Std.	API 598





Pressure Relief Valves (PSV)

A (PRV) is a type of valve used to control or limit the pressure in a system or which can build up for a process upset, instrument or equipment failure, or fire.

A safety valve is a safety device and in many cases the last line of defiance. It is important to ensure that the safety valve is capable to operate at all times and under all circumstances. A safety valve is not a process valve or pressure regulator and should not be misused as such. It should have to operate for one purpose only: over pressure protection.

Types of Safety Valves and Their Function:-

+ Spring loaded safety valves

(a) Conventional design (b) Balanced bellows

+ Pilot operated safety valves

(a) Conventional design (b) Balanced bellows

DESIGN:

- Safety / Relief Valve is are designed for reliable performance
- With Maximum reliving capacity, proper setting accuracy and tight shut off.
- Valve design easy to service and spare part
- Range of Set Pressure 0.20 kg/cm² to 275 kg/cm²
- Temperature Range up to 800 °F
- Manufacturing Std. API 520, API 526, API 527
- End Connection : Socket / Screwed / Flanged End

Applications: Thermal relief, Oil and gas, Refineries,
Chemical industry, Petrochemical industry





Pressure Reducing Valves (PRV)

A pressure regulator is a control valve that reduces the input pressure of a fluid to a desired value at its output. Regulators are used for gases and liquids, and can be an integral device with an output pressure setting, a restrictor and a sensor all in the one body, or consist of a separate pressure sensor, controller and flow valve.

Generally using two types of Pressure Reducing Valves

- ✦ Direct-acting, spring-loaded valves are used for low flow rates.
- ✦ Pilot-operated, diaphragm-actuated pressure-reducing valves are used for higher flow rates.

Design -

- Maximum Inlet Pressure – 250 psig
- Maximum Outlet Pressure – 125 psig
- Minimum Outlet Pressure – 5 psig
- Maximum Working Temperature – 450° F
- Pressure Adjusting Range - 1 to 20 Kg/Cm²
- End Connection : Socket / Screwed / Flanged
- Pressure Rating : 150# to 900#

Applications: Air / Liquid / Gas / Steam





Diapharm Valves

Diaphragm valves consists of a valve body with two or more ports, a diaphragm, and a "weir or saddle" or seat upon which the diaphragm closes the valve.

The diaphragm valve has an extended use for applications at low pressures and slurry fluid where most other kinds of valves corrode or become obstructed.

There are two types of diaphragm valves -

- ✦ **Weir** - The Weir Diaphragm valve can be used for either off/on and throttling services
- ✦ **Straightway** - Named also Straight-Thru is only used for on/off services.

General Features and ranges for Diaphragm valves -

- ✦ Production Capacity : 0.5 " to 10"
- ✦ End Connection : Screwed / Socket / Flanged / Butt Weld
- ✦ Diaphragm material : - NBR / EPDM / PTFE / Neoprene / Natural Rubber
- ✦ Temperature range : - From -10°C (-14°F) up to +170°C (+350°F) (Depending on material).
- ✦ Pressure range :- 15 Kg/cm²

Applications: Chemical, Fossil Power Plants, Pharmaceutical, Mining, Nuclear Power Plants, Water treatments.





Air Valves

Air valves in pipeline systems serve two primary functions: valve used to release the free air is known as an air release valve.

The second function of an air valve is to admit air into the system when the internal pressure of the pipeline drops below atmospheric pressures.

Air Valves are available in Three Basic Configurations:-

- ✦ Air Release Valves
- ✦ Air/Vacuum Valves
- ✦ Combination Air Valves

FUNCTION:-

- Venting of accumulated air during system operation
- Admitting large volumes of air during shut down and draining operations
- Vacuum protection (pipe joints, gaskets, packing, etc.)
- Regulated-Exhaust of large volumes of air during start-up and filling operations

FEATURES:-

- Production Capacity : 0.5 “ to 10”
- Conforms to AWWA standard
- End Connection : Flanged End & Screwed End
- Adjustable seating
- Single and dual body designs
- Regulated-Exhaust Device (Slow-Closing Device)

Applications:- Pipeline Applications, Pump Applications, Water/wastewater Treatment Plant Applications, Tank Applications





Steam Trap

A Steam trap is a device used to discharge condensate and non-condensable gases with a negligible consumption or loss of live steam. Steam trap is an automatic operation Valve.

Functions of steam traps -

- ✦ Discharge condensate as soon as it is formed
- ✦ Have a negligible steam consumption
- ✦ Have the capability of discharging air and other non-condensable gases.

Major types of Steam Traps -

- ✦ Thermodynamic Stem Trap
- ✦ Float Steam Trap

Features and ranges -

- ✦ Production Capacity: 3/8" to 1" (Thermodynamic) 1/2" to 2" (Float Steam)
- ✦ Available with Inbuilt Strainer
- ✦ End Connection : Screwed / Socket for Thermodynamic
- ✦ Flanged End for Float Steam (150# & 300#)
- ✦ Working Pressure : 0-600 psig for Thermodynamic
Twice for design Pressure





Foot Valves

A 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.

Functions - The purpose of a foot valve is to maintain pump prime between pumping cycles. A strainer prevents debris from entering the piping system. Foot valves are designed to minimize head loss and optimize pumping efficiency.

Features and Ranges-

- ✦ Production Capacity : 1" to 10"
- ✦ Full Flow Area, Equal to Pipe Size at All Points Through Valve.
- ✦ Unique Seating Design.
- ✦ Heavy Duty Screen with Flow Area 3 to 4 times that of Pipe Area
- ✦ Silent Operation.
- ✦ Working Pressure : PN 10 and PN 16
- ✦ Screen : AISI SS 316, Brass & Bronze
- ✦ Temperature of Media : Normal Temperature

Applications - OIL, GAS & WATER





Forged Flanges

Features and Ranges -

- ✦ Production Ranges : 1/2" to 64"
- ✦ Weld Neck Flanges
- ✦ Threaded Forged Flange
- ✦ Lap Joint Forged Flange



Transition Pieces

Transition pieces are the sheet metal objects used for connecting pipes or openings either of different shapes of cross sections.



INDUSTRIES WE SERVE

✦ PETROLEUM REFINING

- Crude Oil
- Hydrogen
- Gasoline
- Naptha
- Sulphur
- Cracking Steam



✦ CHEMICALS & PETROCHEMICALS

- Chlorine
- Polymer
- Acid
- Ethylene
- Propylene
- Steam
- Reboilers



✦ OIL AND GAS PRODUCTION

- Fire Waterline
- Flowline
- Oil/Steam Separation
- Steam and CO₂ Injection
- Wellheads
- Compressor Discharge



✦ POWER GENERATION

- Steam
- Boiler Feed Pumps
- Cooling Towers
- Service Water Recirculation
- River Water Intake





✦ WATER AND WASTE WATER

- Distribution Lines
- Pumping Stations
- Sewage Plant Blower Discharge
- Chemical Treatment
- Fire Protection Systems
- HVAC Systems



✦ MARINE

- Oil Tankers
- Offshore Platforms
- Sub - Sea Manifolds
- Shipboard Services



✦ STEEL / PRIMARY METALS



✦ PUPL & PAPER INDUSTRIES





CLIENT DETAIL

✦ International – End User

- Abu Dhabi National Oil Company (ADNOC)
- Abu Dhabi Gas Industries Limited (GASCO)
- Abu Dhabi Gas Liquefaction (ADGAS)
- Abu Dhabi Oil Refining Company (TAKREER)
- Aramco (Saudi Arabian Oil Company)
- British Gas (BG)
- Dolphin Energy
- ENSCO
- Khalda Petroleum Company
- Kuwait National Petroleum Company
- National Drilling Company (ADNOC Group)
- ORYX GTL Limited
- Occidental of Oman –Inc
- Petroleum Development Oman
- Qatar Petroleum
- Qatar Vinyl Company Ltd. Q.S.C
- Qatar Petrochemical Company Ltd
- RasGas Company Limited
- Sonatrach - Algerian
- Total S.A.Petroleum refining company
- Shell (Royal Dutch Shell)



DOMESTIC – END USERS

- Assam Power Generation Corporation Ltd
- Assam Petroleum Limited
- Adani Power Limited
- Athena Chhattigarh Power Limited
- Aditya Birla Chemical India Ltd
- Andhra Pradesh Power Development Company Ltd
- Bharatiya Nabhikiya Vidyut Nigam Ltd
- Bharat Heavy Electricals Limited
- Cochin Port Trust
- Chennai Petroleum Corporation Limited
- Chhattisgarh State Power Co. Pvt Ltd
- Durgapur Power Limited
- Damodar Valley Corporation
- Essar Power Ltd
- Essar Steel
- GMR Energy Ltd
- Hindustan Paper Corporation Ltd
- Haryana Power Generation Corp. Ltd
- Hinduja National Power Corporation Limited
- Hindustan Zinc Ltd
- Hindalco
- Indian Oil Corporation
- Indraprastha Power Generation Co. Ltd
- Jaiprakash Power Ventures Limited
- JSW Steel Ltd
- Jindal Power Ltd
- Karnatka Power Corporation Ltd
- Kudremukh Iron Ore Company Ltd(KIOCL)
- Larsen & Toubro Limited
- Madhya Pradesh Power Generating Company Limited
- Maharashtra State Power Generation Company-MAHAGENCO
- New Mangalore Port
- National Thermal Power Corporation Limited
- NTPC Sail Power Company Private Limited
- NCC Power Projects Ltd
- Nuclear Power Corporation of India Limited
- Neyveli Lignite Corporation India Limited
- National Aluminium Company Limited
- NLC Tamilnadu Power Ltd
- NHPC Limited
- Oil and Natural Gas Corporation Limited
- POSCO
- R.K.M Power Gen. Pvt Ltd
- Rajasthan Rajya Vidyut Utpadan Nigam Ltd
- Steel Authority of India Limited
- Tamil Nadu Newsprints and Papers Ltd



CRESCENT VALVES

1. Takreer
2. Chennai Petroleum Cor. Ltd.

3. Dolphin Energy
4. Qatar Petroleum

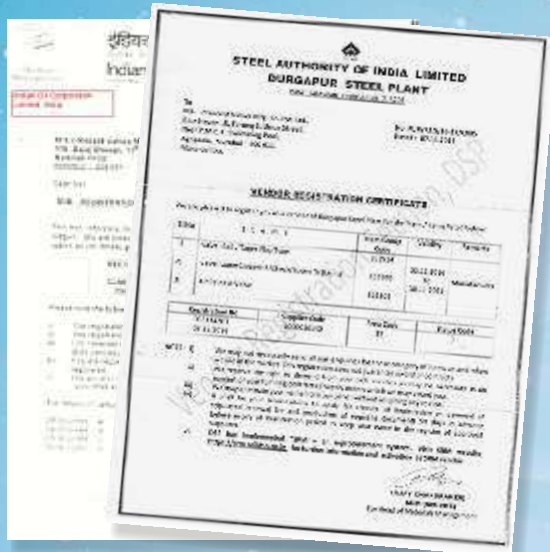
5. Register of Shipping

6. GASCO
7. Arabian American Oil Company

8. Oman Drydock Procurement Portal
9. Metalfab



CRESCENT VALVES

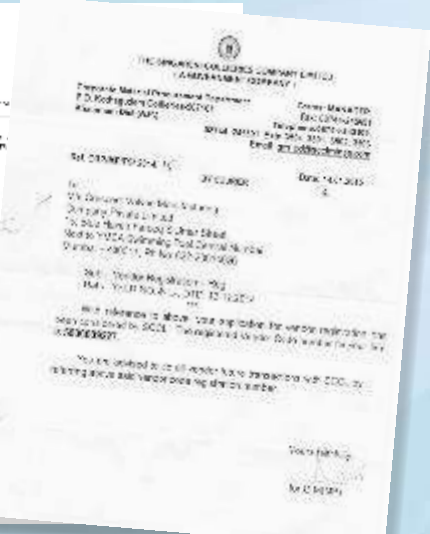
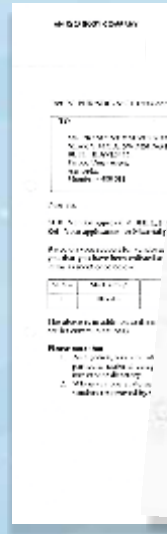


10. Indian Oil Corp. Ltd.
11. Steel Authority of India Ltd.



12. Sail
13. Bharat Heavy Electricals Ltd.

16. Maharashtra State Power Gen. Co. Ltd.



14. Bharat Heavy Electricals Ltd.
15. Bharat Heavy Electricals Ltd.

17. The Singareni Collieries Co. Ltd.
18. Bharat Heavy Electricals Ltd.



Approval Certificate -





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