UTAM
SYNERCON

Elevating Efficiency Through Advanced Engineering & Precision Valves



www.vk-utam.com

About Us

Established in 1988, we have grown into one of India's most trusted and globally recognized manufacturers of high-performance industrial valves, steam systems, and flow-control solutions. With a legacy of more than 35 years, we continue to represent engineering excellence, technological advancement, and uncompromising quality.
From our state-of-the-art manufacturing and foundry facilities in Punjab, India, we produce a comprehensive range of ferrous and non-ferrous valves, including Globe, Gate, Ball, Butterfly, Check, Bellow-Sealed, Piston, and Control Valves, along with Pressure Reducing Stations (PRS), Condensate Recovery Systems (CRS), and Steam Traps. Our solutions support critical operations across diverse sectors such as Oil & Gas, Power, Marine, Steam & Condensate, Food Processing, Pharmaceuticals, Chemicals, HVAC, and Utilities.

Our Commitment to Quality

Quality is at the core of everything we build. Each product is designed to deliver durability, efficiency, and consistent performance in demanding industrial environments.
Our facilities operate under stringent global quality standards and hold internationally respected certifications, including:

- **ISO 9001, ISO 14001, ISO 45001**
- **IBR Approval**
- **WRAS Approval**
- **PED Approval**
- **ADNOC Vendor Approval**
- **LR Approved Copper Alloy Foundry**

These certifications demonstrate our adherence to international manufacturing norms and our dedication to sustainability, workplace safety, and long-term reliability.

Engineering Excellence & Innovation

Innovation guides our product development philosophy. Our in-house Design & R&D Centre continuously enhances valve performance, safety features, and energy-efficient designs to meet evolving global requirements.
Whether for high-pressure steam, corrosive media, marine duty, or hygienic applications, our valves are engineered for precision, longevity, and ease of maintenance. Our focus on extended service life, operational efficiency, and reduced downtime ensures dependable, cost-effective solutions for our customers worldwide.

OUR VISION ...

"Leading the Way to Precision and Efficiency: Our vision is to be the top provider of innovative valves and industrial utilities worldwide. With cutting-edge technology, exceptional engineering, and unwavering customer focus, we optimize processes, conserve resources, and build a sustainable future."

Our History

A LEGACY OF EXCELLENCE, SPREAD OVER 30 YEARS

1988 — Founded as VK (UTAM) to manufacture bronze and copper valves.

Expanded with a modern manufacturing and testing facility. — **1995**

1996 — Certified to ISO 9001, reinforcing our commitment to quality.

Diversified into ferrous valves; obtained IBR Certification. — **1998**

2003 — Expands into ferrous valves with IBR certification, strengthening industry presence.

Entered Steam Process Valves segment for industrial applications. — **2007**

2008 — Major supply of marine valves to shipping companies. Partnerships with global valve brands.

Foundry secures PED certification, supporting supply to European markets. — **2013**

2015 — UTAM begins serving the process industry with solutions in steam systems & utilities.

Entered the oil & gas industry with API certification. — **2016**

2019 — Received LR approval for Copper Alloy Castings, strengthening credibility in marine and offshore applications.

Our History

A LEGACY OF EXCELLENCE, SPREAD OVER 30 YEARS

2020 — Established a new automated manufacturing unit with advanced testing facilities to increase production capacity.

2021 — Improved manufacturing workflows to support higher product demand.

2022 — PED approved for Gate, Globe, Butterfly & Bellow-Sealed Globe Valves.

2023 — UTAM achieved WRAS approval.

2024 — Achieved ISO 14001 & ISO 45001 certifications for enhanced environmental and safety standards.

2025 — Officially approved vendor for ADNOC (Abu Dhabi National Oil Company)

2026 — Achieved UL certification for enhanced safety and reliability.

OUR CERTIFICATIONS

ISO 9001:2015 · ISO 14001 · International Organization for Standardization ISO 45001 · أدنوك ADNOC · WRAS APPROVED PRODUCT

APPROVED LR APPROVED SERVICE SUPPLIER · IBR Approved · PED CERTIFIED · CE

Technical Capabilities

THE PILLARS OF OUR SUCCESS

UTAM SYNERCON

Engineering Innovation & Product Development

Innovation drives every solution we develop. Our engineering team utilizes advanced tools and analytical methods to design products that deliver superior reliability, long service life, and energy-efficient performance.

- 3D modelling, simulation, FEA, and CFD for precision-driven design
- Skilled engineers focused on optimizing performance and minimizing energy loss
- Continuous R&D to meet evolving global industry standards and applications

Advanced Casting & Material Processing Capabilities

Our integrated casting facilities provide full control over quality, consistency, and delivery timelines, enabling the production of high-integrity components for critical applications.

- Modern induction furnaces for accurate melting and alloy composition
- Shell and sand moulding systems for dimensionally consistent castings
- PED-compliant manufacturing processes for safety-critical parts
- LR-approved copper alloy foundry ensuring globally recognized casting quality
- Full traceability and metallurgical verification throughout production

High-Accuracy Inspection & Performance Validation

Every product undergoes rigorous inspection and validation to ensure dependable performance in demanding environments.

- In-house physical and chemical laboratories for metallurgical testing
- Hydrostatic and pneumatic pressure testing up to Class 2500
- Safety valve testing up to 250 mm and 150 bar
- Flow-performance testing for control valves and steam equipment
- All instruments verified and calibrated through NABL-accredited laboratories

Quality First, Quality Always.

At UTAM, customer satisfaction drives everything we do, achieved through an uncompromising commitment to quality.

Quality Assurance:
All UTAM products are manufactured under ISO 9001 and API Spec Q1 standards, with checks at every stage, from raw material procurement to final packaging. The QA team reviews each order, ensures special requirements are met, maintains calibration systems, and trains workers to deliver consistent quality.

Quality Control:
Our QC team oversees all quality aspects, including machining, welding, testing, inspection, and packaging, ensuring every valve meets the highest standards.

Pressure Testing:
Every valve is pressure-tested as per relevant industry or customer-specific standards.

Our Product Range

Power, Oil, Gas & Chemical Solutions

- **Globe Valve** - Bolted Bonnet, Pressure Sealed Bonnet
- **Ball Valve** - Floating Ball Valve, Trunnion Ball Valve
- **Y-Type Strainers**
- **Butterfly Valves** - Double Offset Butterfly Valve, Triple Offset Butterfly Valve
- **Check Valves** - Dual Plate Check Valve, Swing Check Valve, Horizontal Lift Check Valve
- **Safety Valves**

Naval Marine & Shipbuilding

- **Gate Valve** - Bolted Bonnet, Union Bonnet
- **Globe Valve** - Bolted Bonnet, Union Bonnet
- **Check Valves** - Swing Check Valve, Dual Plate Check Valve [DPCV]
- **Ball Valves** - Floating Ball Valve, Trunnion Ball Valve
- **Y-Type Strainers**
- **Butterfly Valves** - Double Offset Butterfly Valve, Triple Offset Butterfly Valve, Concentric Butterfly Valve

Steam Process Solution

- **Steam trap** - Thermodynamic Steam Trap, Ball Float Steam Trap, Concise Trap [Ball Float Type], Concise Trap [Thermodynamic Type], Tapping module, Inverted Bucket Steam Trap
- **Isolation Valve** - Bellow Sealed Globe Valve, Piston Valve, Globe Valve SPS, Gate Valve, Horizontal Lift Check Valve, Ball Valve
- **Controls Valves**
- **Pressure Reducing Solution** - Bellow Type PRV, Pilot Operated PRV, Pressure Reducing Station
- **Pipeline Accessories** - Moisture Separator, Y-Type Strainers, Sight Glasses, Reflex Gauge, Fusible Plug, Parallel Blow Down
- **Safety Relief Valves** - Relief Valves, Safety Valves, Double Post High Lift Safety Valve
- **Condensate Recovery System**

Clean Steam Solutions

- **Sanitary Steam Trap**
- **Sanitary Ball Valve**
- **Thermostatic Trap**
- **Vacuum Breaker**
- **Air Vent Plug (AVP)**
- **Sight Flow Indicator**

Plumbing Solutions

- **Ball Valves** - Floating Ball Valves, Trunnion Ball Valves
- **Gate Valves** - Screwed Bonnet, Bolted Bonnet, Union Bonnet
- **Globe Valves** - Screwed Bonnet, Bolted Bonnet, Union Bonnet
- **Check Valve** - Swing Check Valve, Lift Check Valve, Piston Check Valve
- **Strainers**
- **Foot Valves**
- **Relief Valves**

Gate Valve



Screwed Bonnet

A screwed bonnet uses a threaded connection between the body and bonnet, offering a compact and economical design suited for low- to medium-pressure services while ensuring dependable sealing performance.

- **Design Standard** - API 600/ BS 5154
- **Size** - DN15 (1/2") to DN100 (4")
- **Pressure Rating** - CL-150 PN16/20/25/32
- **MOC** - Bronze/Carbon Steel/Stainless Steel/ Duplex/Nickel Aluminium Bronze/Other Copper Alloys/Nickel Alloys
- **End Connection** - Screwed or Flanged End
- **Approval** - ISI

Union Bonnet

A union bonnet features a threaded union nut that fastens the bonnet to the body, enabling secure sealing with the added benefit of easy disassembly for inspection, maintenance, or repair.

- **Design Standard** - API 600/ BS 5154
- **Size** - DN15 (1/2") to DN100 (4")
- **Pressure Rating** - CL-150/300 PN16/20/25/32
- **MOC** - Bronze/Carbon Steel/Stainless Steel/ Duplex/Nickel Aluminium Bronze/Other Copper Alloy/Nickel Alloy
- **End Connection** - Screwed or Flanged End
- **Approval** - ISI





Bolted Bonnet

A bolted bonnet design uses multiple bolts to secure the bonnet to the valve body, providing excellent strength, durability, and leak-tight shutoff for higher-pressure and critical industrial applications.

- **Design Standard** - API 600/ BS 5154
- **Size** - DN15 (1/2") to DN300 (12")
- **Pressure Rating** - CL-150/300/800,PN16/20/25/32
- **MOC** - Bronze/Carbon Steel/Stainless Steel/ Duplex/Nickel Aluminium Bronze/Other Copper Alloys/Nickel Alloys
- **End Connection** - Screwed or Flanged End
- **Approval** - IBR,UL,PED

Globe Valve



Union Bonnet

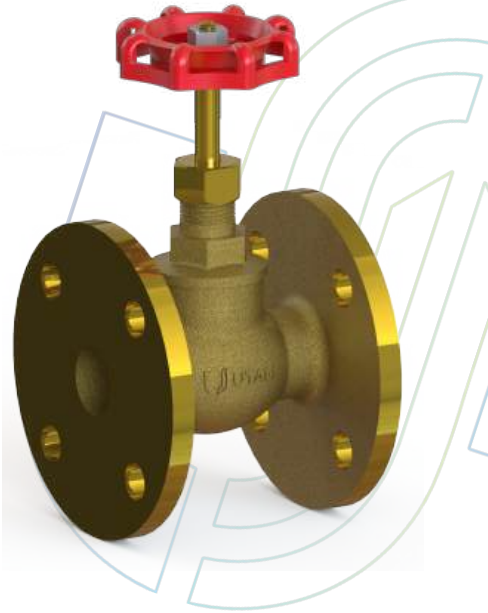
A union bonnet globe valve incorporates a threaded union nut that locks the bonnet to the body, delivering secure sealing with easy removal for maintenance. It is well-suited for applications requiring frequent servicing without compromising flow control precision.

- **Design Standard** - BS 1873 / ASME B16.34/BS 5154
- **Size** - 'DN15 (1/2") to DN100 (4")
- **Pressure Rating** - CL-150/300/800,PN16,20,25,32
- **MOC** - Bronze, Carbon steel/Stainless steel
- **End Connection** - Screwed or Flanged End

Screwed Bonnet

A screwed bonnet globe valve uses a threaded body–bonnet connection, offering a compact and economical design for low- to medium-pressure applications. It ensures dependable sealing and accurate flow regulation for general service conditions.

- **Design Standard** - BS 1873 / ASME B16.34/BS 5154
- **Size** - 'DN15 (1/2") to DN100 (4")
- **Pressure Rating** - CL-150/300/800,PN16,20,25,32
- **MOC** - Bronze, Carbon steel/Stainless steel
- **End Connection** - Screwed or Flanged End
- **Approval** - IBR





Bolted Bonnet

A bolted bonnet globe valve secures the bonnet with bolts, providing high structural strength and reliable, leak-tight performance. This design is ideal for higher-pressure or demanding applications where durability and consistent throttling are essential.

- **Design Standard** - BS 1873 / ASME B16.34/BS 5154
- **Size** - 'DN15 (1/2") to DN300 (12")
- **Pressure Rating** - CL-150/300/600/800/1500/2500, PN16/20/25
- **MOC** - Bronze, Carbon steel/Stainless steel
- **End Connection** - Screwed or Flanged End
- **Approval** - IBR,PED

Bellow-Sealed & Piston Globe Valves



Bellow Sealed Globe valve

Bellow Sealed Valves are Zero Emission, ZeroSeat Leakage, Low Maintenance, CE Approved. Our design guarantees reliable and excellent protection against leaks or fugitive emissions. The valve stem seal requires virtually no maintenance due to leak free weld connections of the bellows with stem and properly sandwich between two gaskets compressed between body and bonnet. Constant valve monitoring and readjustment of the packing is eliminated in the unlikely event of a bellows failure the backup packing guarantees safe valve performance until the next scheduled shutdown.

- **Design Standard** - BS 1873 / ASME B16.34
- **Size** - DN15 (1/2") to DN300 (12")
- **Pressure Rating** - CL-150/300,PN16/25/40
- **MOC** - Carbon steel / Stainless steel/Duplex
- **End Connection** - Flanged End
- **Approval** - PED,Fugitive Emission,IBR,Fire Safe

Piston Valves

A Piston valve controls the flow of fluids by using a cylindrical piston that moves linearly within a chamber. The piston uses sealing rings to provide a tight shut-off, making these valves highly effective for on/off applications in high-pressure and high-temperature environments

- **Design Standard** - BS 1873 / ASME B16.34
- **Size** - DN15 (1/2") to DN300 (12")
- **Pressure Rating** - CL-150/300/800
- **MOC** - Carbon steel/Stainless steel/Duplex
- **End Connection** - Screwed or Flanged End
- **Approval** - IBR



Ball Valve



Floating _ Screwed Bonnet

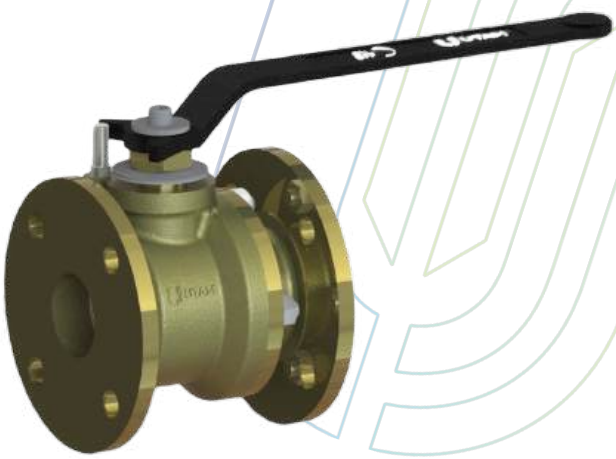
A floating ball valve with a screwed bonnet features a threaded body–bonnet connection in a compact and economical design. The floating ball provides tight sealing by shifting under pressure, while the quarter-turn operation ensures smooth and reliable shutoff for gas or liquid flow.

- **Design Standard** - ISO 17292/API 6D/MSS SP 110
- **Size** - DN15 (1/2") to DN100 (4")
- **Pressure Rating** - CL-150/600,PN16,20,25,32,40
- **MOC** - Bronze/Carbon Steel/Stainless Steel/ Duplex/Nickel Aluminium Bronze/Other Copper Alloys/Nickel Alloys
- **End Connection** - Screwed or Flanged End

Floating _ Bolted Bonnet

A floating ball valve uses a free-moving ball that shifts under pressure to create a tight, pressure-assisted seal against the downstream seat.

- **Design Standard** - API 6D/IS0 17292
- **Size** - DN15 (1/2") to DN300 (12")
- **Pressure Rating** - PN16/20/25,CL-150/300/600/800
- **MOC** - Bronze/Carbon Steel/Stainless Steel/Duplex/ Nickel Aluminium Bronze/Other Copper Alloys/ Nickel Alloys
- **End Connection** - Screwed End or Flanged End





Trunnion Ball Valve

A trunnion-mounted ball valve anchors the ball at both ends for high-pressure, large-size use, with springs and line pressure ensuring tight sealing.

- **Design Standard** - API 6D/IS0 17292
- **Size** - DN50 (2") to DN 600 (24")
- **Pressure Rating** - UP TO 2500
- **MOC** - Bronze/NAB/Other Copper Alloy/Carbon Steel/Stainless steel/SGI Iron / Duplex/Nickel Alloys
- **End Connection** - Screwed End or Flanged End

Check Valve



Lift Check Valve

The lift check valve is a reliable automatic non-return valve that prevents reverse flow in pipelines. Under forward flow, the pressure of the medium lifts the disc against spring allowing full-flow passage with minimal pressure drop

- **Design Standard** - BS 5154
- **Size** - DN15 (1/2") to DN 100 (4")
- **Pressure Rating** - PN16/20/25,CL-150/300
- **MOC** - Bronze, NAB, Other Copper Alloy/Stainless steel
- **End Connection** - Screwed End or Flanged End
- **Approval** - ISI

Swing Check Valve – Screwed

Swing Check Valve efficiently eliminates backflow in pipelines,. Its swinging disc mechanism allows forward flow and automatically closes to block reverse flow, protecting systems from damage. Ideal for applications requiring reliable backflow prevention and minimal pressure drop.



- **Design Standard** - BS 5154
- **Size** - DN15 (1/2") to DN 100 (4")
- **Pressure Rating** - PN16/20/25,CL-150/300
- **MOC** - Bronze, NAB, Stainless steel
- **End Connection** - Screwed End or Flanged End
- **Approval** - WRAS

Check Valve



Swing Check Valve – Bolted

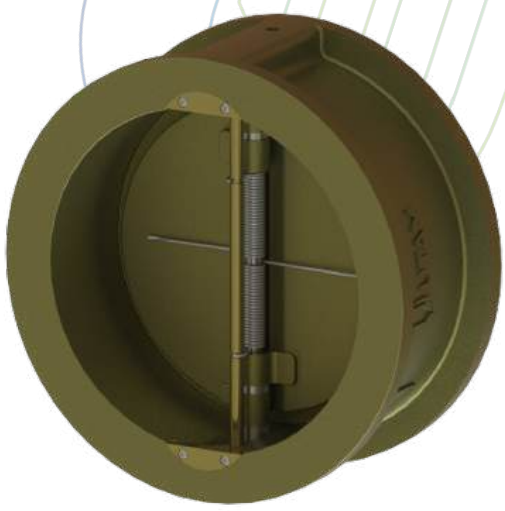
Swing Check Valve efficiently eliminates backflow in pipelines,. Its swinging disc mechanism allows forward flow and automatically closes to block reverse flow, protecting systems from damage. Ideal for applications requiring reliable backflow prevention and minimal pressure drop.

- **Design Standard** - BS 5154
- **Size** - DN15 (1/2") to DN 600 (24")
- **Pressure Rating** - PN16,20,25,40/CL-150/300
- **MOC** - Bronze, NAB, Cast Carbon Steel/Stainless steel/SGI Iron
- **End Connection** - Screwed End or Flanged End

Dual Plate Check Valve

A Dual Plate Check Valve is a compact wafer-type non-return valve with two spring-loaded semicircular discs mounted on a central hinge pin. Its quick, spring-assisted closure minimizes reverse flow and reduces water hammer compared to swing check valves.

- **Design Standard** - API 594
- **Size** - DN50 (2") to DN600 (24")
- **Pressure Rating** - CL-150/CL-300/600
- **MOC** - Bronze, NAB, Cast Carbon Steel/Stainless steel/SGI Iron, Nickel Alloy
- **End Connection** - Flanged End



Butterfly Valve

Cocentric Butterfly Valve



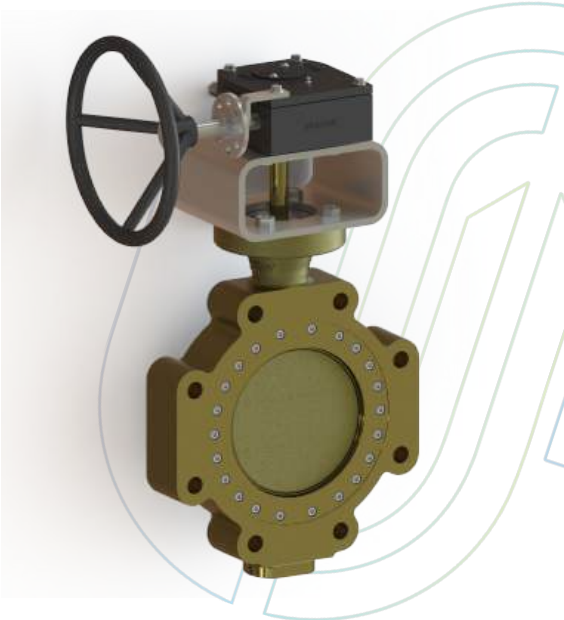
A Concentric Butterfly Valve is a zero-offset, quarter-turn valve where the stem passes through the center of the disc and seat. The disc compresses directly into a replaceable seat, providing bidirectional bubble-tight shutoff.

- **Design Standard** - API 609
- **Size** - DN50 (2") to DN600 (24")
- **Pressure Rating** - PN16/20/CL-150
- **MOC** - Bronze, NAB, Cast Carbon Steel/Stainless steel/SGI Iron
- **End Connection** - Flanged End

Double Offset Butterfly Valve

A Double-Offset (High-Performance) Butterfly Valve is a quarter-turn valve with two shaft offsets that create a cam-like motion. This design lifts the disc away from the seat during opening, eliminating friction through its 90° travel and ensuring bubble-tight shutoff at closure.

- **Design Standard** - API 609 CAT B
- **Size** - DN80 (3") to DN600 (24")
- **Pressure Rating** - PN16/20/25/CL-150/300
- **MOC** - Bronze, NAB, Cast Carbon Steel/Stainless steel/SGI Iron
- **End Connection** - Flanged End
- **Approval** - PED, Fire Safe





Triple Offset Butterfly Valve

A Triple-Offset Butterfly Valve is a metal-seated, zero-leakage quarter-turn valve with three geometric offsets. Its triple-eccentric design prevents rubbing throughout the full 90° rotation, allowing frictionless operation and ensuring tight, bidirectional zero-leakage sealing at closure.

- **Design Standard** - API 609
- **Size** - DN50 (2") to DN600 (24")
- **Pressure Rating** - PN 16/20/25,CL-150/300
- **MOC** - Bronze, NAB, Cast Carbon Steel/Stainless steel/SGI Iron
- **End Connection** - Flanged End
- **Approval** - Fire Safe

Strainers



Strainers

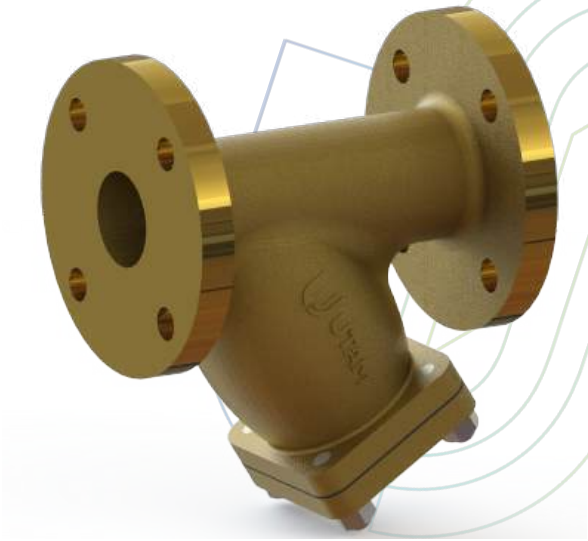
A Y-Type Strainer is a compact in-line filter that removes dirt, debris, scale, and weld particles from steam, water, air, gas, or liquid lines. It protects downstream equipment such as pumps, valves, meters, control valves, and steam traps.

- **Design Standard** - AS PER MFG.
- **Size** - DN15 (1/2") to DN100 (4")
- **Pressure Rating** - PN16,20,25/CL-150/300
- **MOC** - Bronze, Cast Carbon Steel/Stainless steel/ NAB
- **End Connection** - Screwed End
- **Approval** - WRAS

Y-Type Strainers

A Y-Type Strainer is a compact in-line filter that removes dirt, debris, scale, and weld particles from steam, water, air, gas, or liquid lines. It safeguards downstream equipment such as pumps, valves, meters, control valves, and steam traps.

- **Design Standard** - AS PER MFG.
- **Size** - DN15 (1/2") to DN300 (12")
- **Pressure Rating** - PN16/20/25/CL-150/300/600
- **MOC** - Bronze/Carbon Steel/Stainless Steel/ Duplex/Nickel Aluminium Bronze/Other Copper Alloy/Nickel Alloy
- **End Connection** - Flanged End
- **Approval** - IBR





Foot Valve

A Foot Valve combines a spring-loaded check mechanism with a large-area strainer. During pump suction, the disc lifts to allow full flow into the suction line. When the pump stops, the disc closes instantly under gravity, spring force, and reverse pressure—preventing backflow and maintaining pump priming.

- **Design Standard** - AS PER MFG.
- **Size** - DN15 (1/2") to DN100 (4")
- **Pressure Rating** - PN16/20/25
- **MOC** - Bronze / NAB
- **End Connection** - Screwed End

Safety Relief Valves



Relief Valve

A relief valve is a safety device in hydraulic/pneumatic systems that automatically opens when pressure exceeds a preset limit.It diverts excess fluid to the tank, preventing damage to components from over-pressure.
Once pressure drops to a safe level, the valve closes again.

- **Design Standard** - API 526
- **Size** - DN15 (1/2") to DN50 (2")
- **Pressure Rating** - PN16
- **MOC** - Bronze, Stainless Steel
- **End Connection** - Screwed End
- **Approval** - IBR

Safety Valve

A Safety Valve is an automatic overpressure protection device used on boilers, pressure vessels, and piping systems. It opens instantly at the set pressure to release steam, gas, or liquid and prevent equipment failure. The valve achieves full discharge with minimal overpressure and reseats once pressure drops to the blowdown value.
Available in Ordinary Lift, High Lift (Single & Double Post), and Full Lift designs.

- **Design Standard** - ISO 4126-1,BS 1873,BS EN 13789,API 526
- **Size** - up to 8” x 10”
- **Pressure Rating** - PN16 CL-150/300/600
- **MOC** - Bronze, Cast Carbon Steel/Stainless steel/ SGI Iron/Duplex/NAB
- **End Connection** - Screwed End or Flanged End
- **Approval** - IBR



Pressure Reducing Solution



Bellow Type PRV

A Bellow Type Pressure reducing valve (PRV) is an automatic control valve that reduces high, fluctuating inlet pressure to a constant, lower outlet pressure, regardless of changes in demand or upstream pressure

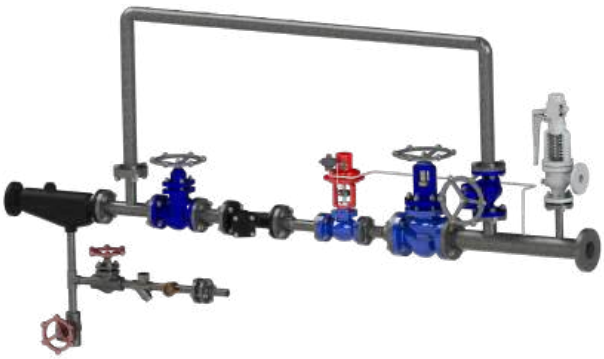
- **Design Standard** - ASME B16.34
- **Size** - DN15 (1/2") to DN50 (2")
- **Pressure Rating** - CL-150/300,PN25
- **MOC** - Carbon steel/Stainless steel/SGI Iron
- **End Connection** - Screwed or Flanged End
- **Approval** - IBR

Pilot Operated PRV

A Pilot-Operated Pressure Relief Valve uses a small pilot valve to control the main valve's operation. It is ideal for applications requiring high capacity, precise setpoint control, tight sealing, and reliable performance near set pressure.

- **Design Standard** - ASME B16.34
- **Size** - DN15 (1/2") to DN80 (3")
- **Pressure Rating** - CL-150/300
- **MOC** - S.G Iron/ Cast Carbon Steel
- **End Connection** - Screwed End or Flanged End
- **Approval** - IBR





Pressure Reducing Station

A pressure reducing station (PRS) is a piping assembly designed to automatically reduce high upstream pressure to a lower, constant downstream pressure regardless of flow or inlet pressure fluctuations.

- **Design Standard** - AS PER MFG.
- **Size** - DN15×20 to DN300×300
- **Pressure Rating** - CL-150/300
- **MOC** - S.G Iron/ Cast Cast Carbon Steel
- **End Connection** - Flanged End
- **Approval** - IBR

Control Valve

Control Valve

A Control valve is a power-operated device that automatically regulates the flow of a fluid, such as liquid, gas, or steam, to control process variables like temperature, pressure, or level.



- **Design Standard** - BS 1873 / ASME B16.34/ISA Standard
- **Size** - DN15 (1/2") to DN300 (12")
- **Pressure Rating** - CL-150/300
- **MOC** - Carbon steel/Stainless steel/SGI Iron
- **End Connection** - Flanged End
- **Approval** - IBR

Pipeline Accessories



Reflex Guage

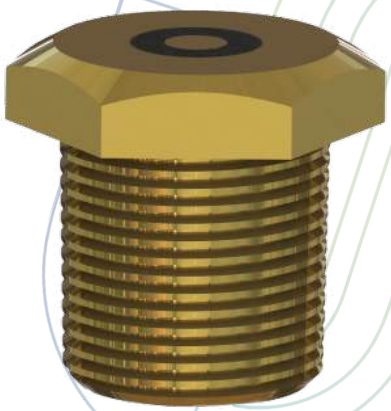
Reflex Level Guages are commonly used for level detection within a specific vessel, and the primary principle is based on the difference in refractive indices of vapour and liquid. Reflex gauges, also referred to as prismatic level gauges; offer a well-defined image of water levels.

- **Design Standard** - AS PER MFG.
- **Size** - DN15 (1/2") & DN20 (3/4")
- **Pressure Rating** - PN16/25/40
- **MOC** - Bronze, Cast Carbon Steel, Stainless Steel
- **End Connection** - Screwed End or Flanged End
- **Approval** - IBR

Fusible Plug

Fusible Plug is a safety device installed on steam boilers and pressure vessels to prevent catastrophic explosion due to overheating when water level drops dangerously low and exposes the furnace crown or fire tubes.

- **Design Standard** - AS PER IBR
- **Size** - DN15 (1/2") to DN50 (1")
- **Pressure Rating** - 17.5 BAR MAX
- **MOC** - Bronze
- **End Connection** - Screwed End
- **Approval** - IBR





Parallel Blow Down

A parallel blow down valve is a type of industrial valve that uses two parallel discs to control the flow of fluids like steam or water, primarily used in boilers to remove impurities

- **Design Standard** - ASME B16.34
- **Size** - DN25(1") to DN50(2")
- **Pressure Rating** - PN40
- **MOC** - Bronze, Cast Carbon Steel, Stainless Steel
- **End Connection** - Flanged End
- **Approval** - IBR

Pipeline Accessories



Cast Moisture Seperator / Fabricated Moisture Seperator

A moisture separator is a simple mechanical unit placed in steam, air, or gas pipelines to Remove the water droplets and condensate, so that only dry or almost-dry vapor reaches the downstream machines and instruments.

- **Design Standard** - ASME B16.34
- **Size** - DN25(1") to DN200(8")
- **Pressure Rating** - PN16/25,CL-150/300
- **MOC** - Cast Carbon Steel / Stainless Steel
- **End Connection** - Flanged End
- **Approval** - IBR

Sight Glasses

Sight Glass is a transparent window installed directly in a pipeline or on a vessel to allow operators to visually check the fluid condition, flow, color, clarity, level, or presence of moisture/condensate without opening the system.



- **Design Standard** - AS PER MFG.
- **Size** - DN15 (1/2") to DN50 (2")
- **Pressure Rating** - PN16
- **MOC** - Bronze
- **End Connection** - Screwed End
- **Approval** - IBR

Condensate Recovery System



Condensate Pump & Duplex Condensate Pump

A Condensate Pump is a positive displacement pump powered by steam, compressed air, or gas, designed to transfer hot condensate. Its modular and flexible design supports various industrial control applications. A Duplex Condensate Pump features two identical pumps on a common receiver tank. It automatically collects and returns condensate to the boiler feedwater tank. The pumps operate alternately for even wear and offer 100% standby redundancy—ensuring uninterrupted service, preventing water logging, and maintaining high steam system efficiency.

- **Design Standard** - API 526
- **Size** - DN15 (1/2") to DN80 (3")
- **Pressure Rating** - PN16
- **MOC** - Bronze, Stainless Steel
- **End Connection** - Screwed End

Flashvessel

Flash Vessel System is particularly suited to boiler blowdown heat recovery systems where efficient separation of flash steam from HP Condensate / blowdown is essential to prevent contamination of the boiler feed tank and /or heat transfer surfaces. It is equally suited to condensate flash steam applications.

- **Design Standard** - AS PER MFG.
- **Size** - DN150 to DN300
- **Pressure Rating** - PN16,CL-150
- **MOC** - Carbon Steel
- **End Connection** - Flanged End



Condensate Recovery System



Deaerator Head

It is designed to mix the incoming flow of flash steam, cold make up and returning condensate before supplying it to the feed water tank of the boiler. The mixing is achieved by downward flow through a baffle arrangement within the unit by doing so the mix up gases in the cold make up are released due to increase in temperature and are vented out through air vent thus increasing the efficiency and life of boiler.

- **Design Standard** - AS PER MFG.
- **Size** - DN50 (2") to DN200 (8")
- **Pressure Rating** - PN16,CL-150
- **MOC** - Stainless Steel
- **End Connection** - Flanged End

FlashCon Eductor

FlashCon Eductor is a Combined Assembly of a condensate pump operated by steam or air & flash vessel. These are highly economical and energy efficient pump for pumping of hot condensate practically at 100° C. These pump is available as a complete package with condensate collection Flash vessel, interconnecting piping with strainer, isolating valve, disc check NRV at inlet and disc check valve at outlet. It is also provided with the motive steam inlet connections complete with isolating valve, steam trap and piping. Condensate inlet to tanks and the condensate outlet of the pump are provided with flanged connections.

- **Design Standard** - AS PER MFG.
- **Size** - DN50 (2") to DN100 (4")
- **Pressure Rating** - PN16,CL-150
- **MOC** - Carbon Steel
- **End Connection** - Flanged End



Clean Steam

Sanitary Steam Trap



The Sanitary Steam Trap is designed for hygienic applications requiring efficient condensate removal without steam loss. Its SS 316L construction and self-draining design ensure reliable performance in SIP systems and sterile steam services across pharmaceutical, food, and healthcare industries.

- **Design Standard** - AS PER MFG.
- **Size** - DN15 to DN25
- **Pressure Rating** -
- **MOC** - SS 316L
- **End Connection** - As per requirement
- **Certification -** IBR

Sanitary Ball Valve

The Sanitary Ball Valve is designed for hygienic and aseptic applications requiring reliable shut-off with minimal pressure drop. Its full-bore design and SS 316L construction ensure unrestricted flow, easy cleaning, and contamination-free operation, making it ideal for pharmaceutical, food & beverage, dairy, brewery, and biotech industries.



- **Design Standard** - AS PER MFG.
- **Size** - DN15 to DN50
- **Pressure Rating** -
- **MOC** - Stainless Steel SS 316L
- **End Connection** - Screwed / Welded
- **Certification -** IBR

Thermostatic Trap



The Thermostatic Trap is designed to automatically vent air and non-condensable gases from clean steam and process piping systems. Its hygienic SS 316L construction ensures sterile operation and improved system efficiency, making it ideal for pharmaceutical, biotech, food & beverage, and healthcare applications.

- **Design Standard** - AS PER MFG.
- **Size** - DN10 to DN40
- **Pressure Rating** -
- **MOC** - Stainless Steel SS 316L
- **End Connection** - Threaded
- **Certification -** IBR

Clean Steam



Vacuum Breaker

The Sanitary Vacuum Breaker is designed to protect clean steam and process systems from vacuum conditions that may cause contamination or equipment damage. It automatically admits air when vacuum occurs, maintaining system safety and sterile integrity in hygienic applications.

- **Design Standard** - AS PER MFG.
- **Size** - DN15 to DN40
- **Pressure Rating** -
- **MOC** - Stainless Steel SS 316L
- **End Connection** - Screwed / Welded
- **Certification -** IBR

Air Vent Plug (AVP)

The Air Vent Plug (AVP) is a compact device designed for manual venting of trapped air or gases from piping systems, tanks, and process lines. By eliminating air pockets, it improves flow efficiency, prevents air locking, and protects equipment from air-related damage in industrial and utility applications.

- **Design Standard** - AS PER MFG.
- **Size** - DN15 to DN40
- **Pressure Rating** -
- **MOC** - Stainless Steel
- **End Connection** - Screwed / Welded
- **Certification -** IBR





Sight Flow Indicator

The Sight Flow Indicator is designed to provide clear visual confirmation of liquid or gas flow within a pipeline. Its transparent viewing window allows quick inspection of flow condition, clarity, and contamination without interrupting operations, supporting safe and efficient process monitoring across industries.

- **Design Standard** - AS PER MFG.
- **Size** - DN15 to DN80
- **Pressure Rating** -
- **MOC** - As per application
- **End Connection** - Flanged
- **Certification -** IBR

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